



Radium Historical Items Catalog

FINAL REPORT
August 2008

M. A. Buchholz, CHP
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Prepared for the
U.S. Nuclear Regulatory Commission


O R I S E

Oak Ridge Institute for Science and Education

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RADIUM HISTORICAL ITEMS CATALOG

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United States Nuclear Regulatory Commission

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RADIUM HISTORICAL ITEMS CATALOG

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Table of Contents

Acknowledgements.....	i
Table of Contents.....	ii
Introduction.....	viii

Product Category	Product Name	Page
"Quack" Cures	Adrenoray	1
	Arium Radium Tablets	2
	Becquerelle Radium Tablets	3
	Degnen's Standard Radioactive Solar Pad	4
	Doramad Radioactive Toothpaste	5
	Dr. Howell's Great Flu and Pneumonia Cure	6
	Dr. Howell's Harmless Eye Remedy	7
	Dr. Howell's Harmless Radium Pile Cure	8
	Dr. Howell's Harmless Radium Remedy for Enlarged Prostate Glands	9
	Dr. Howell's Radium Cure for Deafness and Head Noises	10
	Farnsworth Colloidal	11
	Gable Ionic Charger	12
	Gland Tablets	13
	Great Radium Spring Water Co. Bottle	14
	Healing Device	15
	Lifestone Cigarette Holder	16
	Magic Spike	17
	Magik Radium Massage	18
	NAC Plate	19
	Narada Radium Preparations	20
	NICO Clean	21
	Paradox Radium Liquid X-Ray	22
	Paradox Radium Ointment	23
	RA-3/RA-9	24
	Radioactive Pads / Packs / Compresses	25

Radioendocrinators	26
Radiogen-Schlamm	27
Radione	28
Radiophan Injections / Pills	29
Rador Toilet Requisites (Multiple Products)	30
Radio-Sulpho Brew	31
Radio-X Greaseless Cream	32
Radisavon Radium Soap	33
Radithor	34
Radium Applicators	35
Radium Bread	36
Radium Bromide	37
Radium Electrode	38
Radium Emanation Bath	39
Radium Face Clay	40
Radium Mountain Water	41
Radium Radia	42
Radium Remedies (Multiple Products)	43
Radol	44
Ra-Thor Plac	45
Ra-tor Radium Mineral Water	46
Rejuvenator	47
Sleepy Water	48
Soothol Radium Bougies	49
Spa-Radium Bulbs	50
Sparklet Syphon	51
Standard Radium Solution for Drinking	52
Standard Radium Solution for Intravenous Use	53
Testone Radium Appliance and Suspensory	54
Tho-Radia Face Cream	55
Tho-Rad-X	56

	Torb Suppositories	57
	Vigor Health Pendant	58
	Vita Radium Suppositories	59
	Wynne's Radium Tube	60
"Quack" Cures - Emanators	Aktivator Emanator	61
	Curie Re-Generator Jar	62
	Curt Schmidt Device	63
	Dr. Saubermann's Radium Therapy Jar	64
	Erko Emanator	65
	Federal Radium Lab Emanator	66
	Fontano Emanator	67
	Hammer Radium Ore Bar	68
	Health Fountain	69
	Helio-Lux	70
	Hogan Radio-Active Ore	71
	Lar's Radium Emanator	72
	Lifetime Radium-Vitalizer Water Jar	73
	National Radium Emanator	74
	Offra Emanator	75
	Radioak Generator	76
	Radiore	77
	Radio-Rem Emanator	78
	Radium Apparatus	79
	Radium Bath Cylinder	80
	Radium Cone	81
	Radium das Leben	82
	Radium Emanation Generator	83
	Radium Emanations Apparatus	84
	Radium Emanator	85
	Radium Emanator Filter Jar	86
	Radium Emanator Type T	87

Radium Ore Bar	88
Radium Spa	89
Radium Trinkkoren	90
Radium Vita Emanator	91
Radium Vitalizer	92
Radium Vitalizer Health Fount Jar	93
Radium Water Jar	94
Radium Water Jar (2)	95
Radium Water Jar from Bungalow Hotel	96
Radiumator	97
Radiumchema Emanator Apparatus	98
Radiumizer Vitalizer	99
Radium-Trinkapparat	100
Radon (Emanation) Extractor	101
Radon Device	102
Radon Extractor	103
Radon-Emanationsapparat	104
Radonite Jar	105
Radonizer	106
Rayblenda	107
Rayode	108
Revigator	109
Standard Radium Emanator	110
Striz Radium Rock	111
Sure Cure Radium Bottle	112
Thomas Cone	113
Thomas Radium C.R. Jar	114
Torbena Jar	115
Torbernite Radium Rock	116
Vigoradium	117
Yashuhiro Shimizu Mineral Liquid Producing Device	118

	Zimmer Radon Generator	119
Agricultural / Building / Industrial Materials	Alphatron Vacuum Gauge	120
	Electron Tube	121
	Radium Dye Company Bottle	122
	Radium Fertilizer	123
	Sextant	124
Consumer Products / Foods	Endless Refrigerator/Freezer Deodorizer	125
	Radium Beer	126
	Radium Boot Polish	127
	Radium Butter	128
	Radium Cigarettes	129
	Radium Cigars	130
	Radium Cleanser	131
	Radium Clipper	132
	Radium Condoms	133
	Radium Enamel	134
	Radium Leather Dye	135
	Radium Lump Gloss Starch	136
	Radium Playing Cards	137
	Radium Razor Blade	138
Irradiation Sources	Beta Ray Capsule	139
	Calibration and Check Sources	140
	Density, Moisture and Thickness Gauges	141
	Gamma Gauges	142
	Gas Chromatograph Ion Generator	143
	Industrial Radiography Sources	144
	Liquid Scintillation Counter Source	145
	Needles	146
	Safety Control Wrist Band	147
Luminescent Devices	Glow-In-The-Dark Costumes	148

	Radioluminescent Gauges	149
	Radioluminescent Markers	150
	Radioluminescent Rope	151
	Radioluminescent Switches	152
	Radioluminescent Timepieces	153
	Radioluminescent Watch Hands	154
	Radium Gunsight	155
	Radium Touch-Up Kits	156
	Spotters	157
Medical Devices	Capsules	158
	Plaques	159
	Tubes	160
Smoke Detectors	Exhaust and Gas Detector	161
	Smoke Detector	162
Static Eliminators	Lightning Arrestor Rod	163
	Static Eliminator	164
Toys / Novelties	Atomic Energy Lab	165
	Gilbert U-238 Atomic Energy Lab	166
	Porter Atomic Energy Kit	167
	Radium Pastillen	168
	Radium Star Map	169
	Spintharoscope	170
	Tom Mix Magic-Light Tiger-Eye Ring	171

Introduction

In the years following the discovery of radium-226 in 1898 by Madame Curie, radium became a novelty product used in everything from medicinal “cures” to children’s toys. At the time, radium was believed to pose negligible risk due to the radiation, and in fact was believed by many to have health benefits. However, over time the risks became apparent, and the use of radium in consumer products was gradually phased out, with the last common consumer application being in luminescent timepieces during the 1960s.

While radium-containing consumer products are no longer generally produced, many of the historically produced items are in circulation, sold in antique stores, held in private collections and displayed in museums. Record keeping by the manufacturers at the time was poor, and most companies that manufactured the products are no longer in existence. This makes identification of these items and finding applicable information difficult.

Under contract with the U.S. Nuclear Regulatory Commission (NRC), Oak Ridge Associated Universities (ORAU) has compiled this catalog of historical items known to or claimed to contain radium, either as a component of uranium ore or as purified radium. The intent is to begin collecting pertinent information about products potentially containing radium into a single reference such that the items can be easily identified and the information readily available. In addition, items containing “radium” in their name but known to not, in fact, contain radium will also be included in this collection.

This catalog is the third of three ORAU projects for the NRC relating to radium in historical items. The first project involved estimating radiation doses to wearers and possessors of radioluminescent radium-containing timepieces, commonly known as radium-dial watches. Information was compiled about typical timepiece construction and radioactivity contents, and doses were estimated for a variety of potential exposure scenarios. The results are presented in the report *Radium Timepiece Dose Modeling, Revision 1*, issued in September of 2007. The second project involved extending the dose estimates to users and possessors of radioluminescent radium-containing display gauges, items commonly used in vehicles and aircraft. The results of this second project are presented in the report *Supplement to Radium Timepiece Dose Modeling: Radium Gauge Dose Modeling*, issued in May of 2008. Radium timepieces and gauges are included in a general form in this historical items catalog, however due to the depth of available information the catalog entries for these two items are not all-inclusive. For additional information on these two types of items, please refer to the two above-mentioned reports.

Product information is based on a variety of sources, including magazine articles, books, internet searches, and expert knowledge. Information readily available at the

time of this catalog development has been included when possible. However, more information on products and items containing radium is undoubtedly available, but there may be insufficient reference materials to support inclusion in this catalog.

To support any future additions to the catalog, the information has been stored in database format so that it can easily be updated as more items and information are found. The database was created using Microsoft Access, the database software component of Microsoft Office. All item information is stored in a table, with fields to hold specific information types (e.g. item name, description, comments). Data is entered using a visual form that displays each field for that item along with a linked picture of the item. When a report output is needed from the database, the software automatically creates a page for each catalog item. All information is placed in the appropriate location on the page, and the linked picture is inserted into the picture frame. The output is a database-generated report that can be read as a stand-alone document. Future updates to this database can assist in centralizing the information in the open-literature on historical products and items containing radium.

"QUACK" CURES

Product Name:

ADRENORAY

Product dates

1930s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Adrenoray Company
William J. A. Bailey
East Orange, NJ

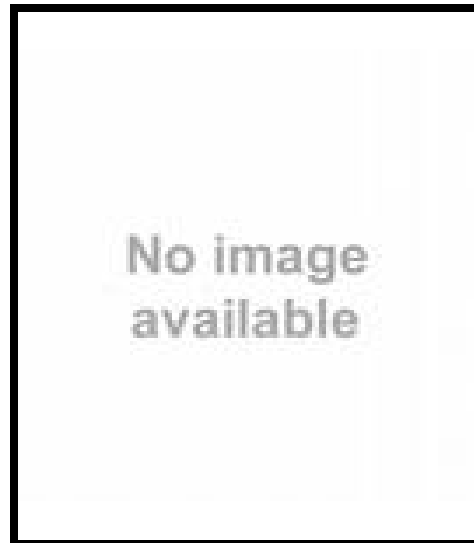
Description

The item consists of a series of five small radium sources in a web holder to be worn over the adrenal glands using the adjustable straps. Best practice is to wear them around the waist overnight on a daily basis. When benefits are seen, the user may decrease application to one or two days a week.

Manufacturer Claims

The item contains genuine radium and will emit gamma rays when placed on the body as directed. Gamma rays will reach the adrenal glands and will maintain its full strength for the calculated life of the radium element losing only 1% of its strength every twenty five years. This item will produce gamma rays day and night consistently in all climates and temperatures.

Wearing the device will treat sexual strength, fatigue and a return to youthful appearance.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

Bureau of Investigation records of William J. A. Bailey, continues Vol. 98, No. 16, pg. 1399.

"QUACK" CURES

Product Name:

ARIUM RADIUM TABLETS

Product dates

Mid-1920s

Source Information

Known radium

Exposure Rate Information

1-2 $\mu\text{R/hr}$ @ 1'; 30 $\mu\text{R/hr}$ @ contact

Other Names

unknown

Manufacturer

Associated Radium Chemists, Inc - William
J A Bailey
461 Eighth Ave
New York, NY

Description

42 tablets of "genuine radium" contained in a tin container (dimensions of 3" x 2" x 1")

Manufacturer Claims

Several advertisements for this product made the following claims: "Radium ends agony of rheumatism, neuritis, neuralgia and gout."; "...radium reduces inflammation, relieves pain, and renews the energy and vigor of youth"; "Recent investigation shows that the 'pep' energy, endurance and nerve force of the average man past 40 may be increased by 100 per cent by getting into his system the marvelous restorative radium power of Arium".



Comments

The company also manufactured:

Linarium - liniment for aches and pains

Ointarium - ointment for skin eruption

Dentarium - dentifrice for teeth and gums

Kaparium - hair tonic

Eventually, the Department of Agriculture declared claims for Arium were false and fraudulent and courts ordered the product to be destroyed. Bureau of Investigation, Vol. 98, No. 16 pg. 1398

References

Paul Frame, PhD, CHP

Manager ORISE Professional Training Program

ORISE historical radium item information binders

"QUACK" CURES

Product Name:

BECQUERELLE RADIUM TABLETS

Product dates

1922

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

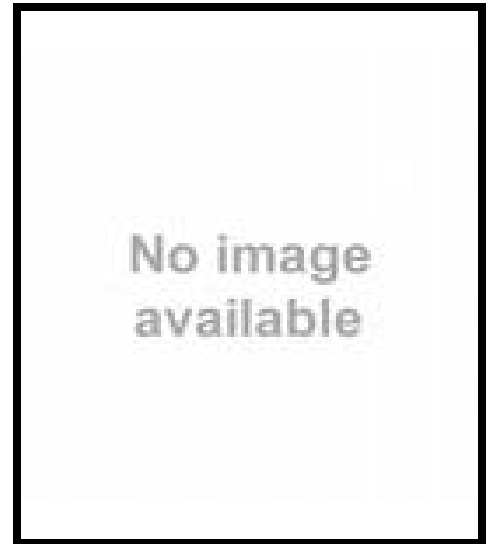
Dr. E. Stillman Bailey

Description

Tablets

Manufacturer Claims

This item treats anemia, gout, arthritis, diabetes, and infections.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

DEGNEN'S STANDARD RADIOACTIVE SOLAR PAD

Product dates

1915-1930

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Radium Appliance Company of Los Angeles - M L Degnen

Description

To use the item, pads containing radium or uranium ore (a less expensive alternative to radium) were to be charged in the sun and then applied to the body.

Manufacturer Claims

The manufacturer claimed that when applied to the body, the item discharged energy into the system, sending lifegiving current through the blood and nervous system.



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/degnen.htm>

"QUACK" CURES

Product Name:

DORAMAD RADIOACTIVE TOOTHPASTE

Product dates

1940s

Source Information

Other radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Auergesellschaft of Berlin.

Description

Tube.

Manufacturer Claims

This manufacturer claims that

"This item increases the defenses of the teeth and gums. Cells are loaded with new life energy; the destroying effect of bacteria is hindered."

The item was used "as a prophylaxis for and healing of gingival diseases. It gently polishes the dental enamel to be white and shiny and prevents dental calculus."



Comments

Manufacturers claims were translated from German. The item contained trace thorium - too low for detection with a hand-held survey meter.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

**DR. HOWELL'S GREAT FLU AND
PNEUMONIA CURE**

Product dates

unknown

Source Information

Not known

Exposure Rate Information

Unknown

Other Names

unknown

Manufacturer

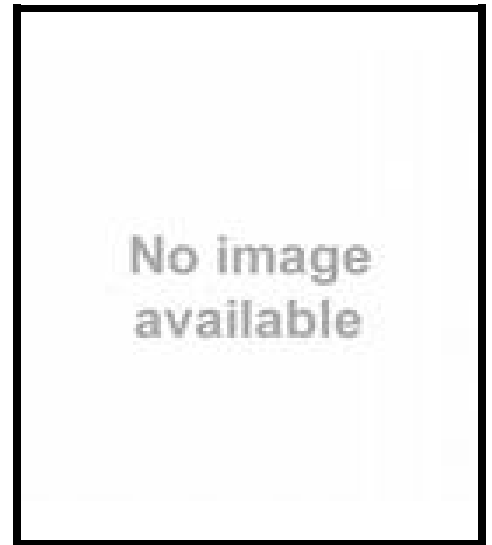
Dr. Charles Howell
Hull, IL.

Description

not available

Manufacturer Claims

Dr. Howell claimed that "My Flu Remedy absolutely cures the flu, also the pneumonia; any and all colds and never fails as it kills inflammation at once and all germs and microbes. It is composed of absolutely harmless radium."



Comments

Part of Dr. Charles Howell "His Great Harmless Remedies" (five of the greatest remedies on earth).

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

DR. HOWELL'S HARMLESS EYE REMEDY

Other Names

unknown

Manufacturer

Dr. Charles Howell
Hull, IL.

Description

not available

Manufacturer Claims

Dr. Howell claimed that his remedy "will remove any cataract or film without injury to the sight; it also restores the sight and it will cure any other affliction of the eyes and does away with glasses; it has cured hundreds of cases and never fails." The item was claimed to be pure and harmless.

Product dates

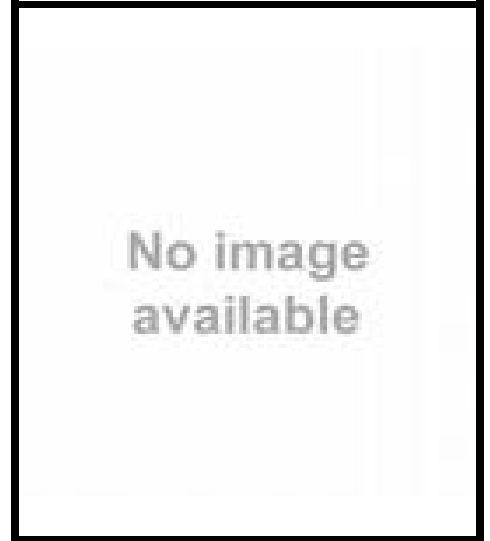
unknown

Source Information

Not known

Exposure Rate Information

Unknown



Comments

Part of Dr. Charles Howell "His Great Harmless Remedies" (five of the greatest remedies on earth).

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

DR. HOWELL'S HARMLESS RADIUM PILE CURE

Product dates

unknown

Source Information

Not known

Exposure Rate Information

Unknown

Other Names

unknown

Manufacturer

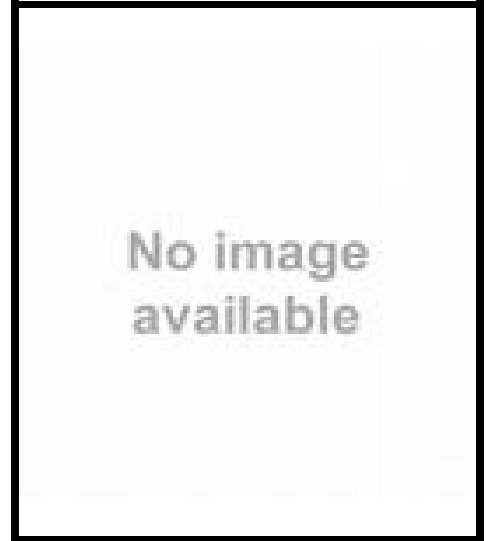
Dr. Charles Howell
Hull, IL.

Description

not available

Manufacturer Claims

Dr. Howell claimed that his remedy "is the best pile cure on earth. It will quickly cure every case; no matter of how long standing. No trouble to apply and you will be delighted from the first application." The item was claimed to cure an individual with one treatment.



Comments

Part of Dr. Charles Howell "His Great Harmless Remedies" (five of the greatest remedies on earth).

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

DR. HOWELL'S HARMLESS RADIUM REMEDY FOR ENLARGED PROSTATE GLANDS

Product dates

unknown

Source Information

Not known

Exposure Rate Information

Unknown

Other Names

unknown

Manufacturer

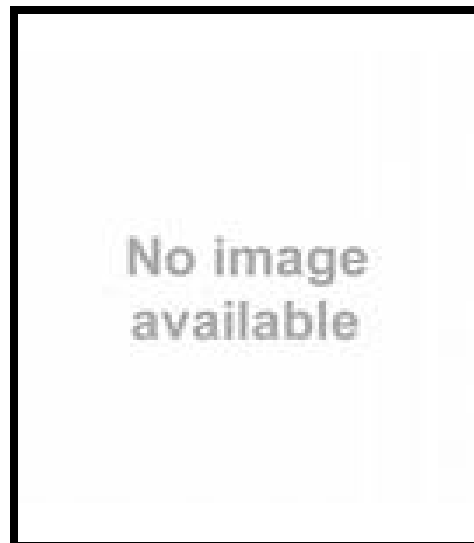
Dr. Charles Howell
Hull, IL.

Description

not available

Manufacturer Claims

Dr. Howell claimed that "Without a doubt this is the grandest remedies on the market for man. It is easy to use and brings the results in a remarkably short time. It has cured cases that have been twelve years old in sixty days, and they have stayed cured."



Comments

Part of Dr. Charles Howell "His Great Harmless Remedies" (five of the greatest remedies on earth).

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

DR. HOWELL'S RADIUM CURE FOR DEAFNESS AND HEAD NOISES

Product dates

unknown

Source Information

Not known

Exposure Rate Information

Unknown

Other Names

unknown

Manufacturer

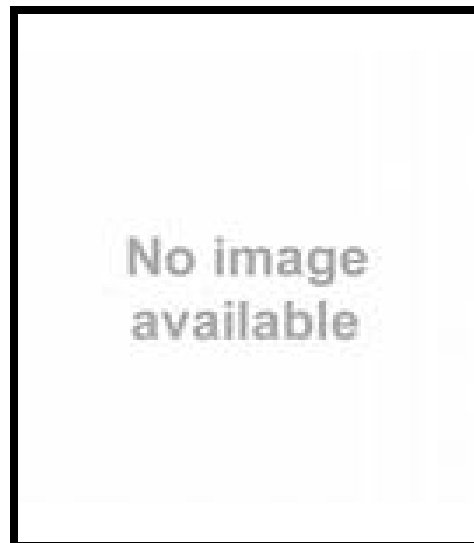
Dr. Charles Howell
Hull, IL.

Description

not available

Manufacturer Claims

Dr. Howell claimed that this remedy was "unsurpassed" and "One bottle will make the deaf hear and only 50 cents a bottle. Try a bottle and be happy."



Comments

Part of Dr. Charles Howell "His Great Harmless Remedies" (five of the greatest remedies on earth).

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

FARNSWORTH COLLOIDAL

Product dates

1920s-1930s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Alphacatalyst
Colmanganese

Manufacturer

Farnsworth Laboratories Chicago, IL.
Merle G. Farnsworth

Description

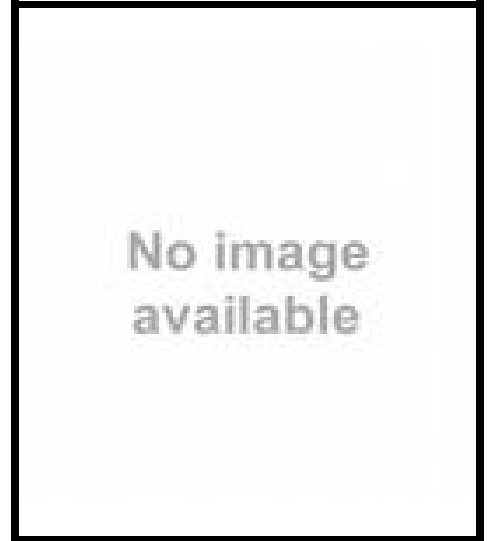
10 cc ampoules.

Manufacturer Claims

Doctor, if you have not used a Farnsworth Colloidal product, you are due for a pleasant surprise. Results are obtained that would be considered impossible by the usual methods. Warning - We wish to warn the profession against counterfeit ampules which apparently resemble the original solutions in every way except the results obtained.

Alphacatalyst: intravenous treatment of carcinoma. Contains radium in colloidal form. Offers relief from pain, retrogression of the tumor mass and an improved clinical picture. Not offered as a "cure" but years of use have convinced us that it does afford some hope to a class of patients who are otherwise hopeless.

Colmanganese: intravenous treatment of deep-seated chronic types of mixed infections. Successfully used in the treatment of gastric-ulcers, prostatitis, endocervitis and many of the so-called ulcerative conditions. Combination of radium and manganese in colloidal form. Results are promptly obtained in cases where this treatment is indicated.



Comments

Also manufactured Leucocalcin, Epilepsin, Colloidal Chromium, Colloidal Iodine, Colloidal Potassium and Waggoner's Formula "61" (ambulatory treatment of hemorrhoids).

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

GABLE IONIC CHARGER

Product dates

1965

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Ionic Research Foundation (Luther Gable)
Winter Park FL
(Center of Balnealogy, Horticulture and
Animal Husbandry, Fluorescence, and
Atomic Engineering).

Description

A cylindrical lead shield containing approximately 0.3 mCi of Ra-226 connected with tubing to a large squeeze bulb. The other end had tubing connected to a small tube with holes in it. To use the small bulb was placed in water and the large bulb was pumped "a score or more of times" causing bubbles of radon in the water.

Manufacturer Claims

Water is for drinking and also for watering plants, seedlings and animals. Device is safe because radon gas is ingested, "not the metallic element". Gable claimed that "the current generation of professional men has been brainwashed by bureaucratic screaming about fall-out and the truth of the famous spas has been lost sight of".



Comments

Food and Drug Division declared that Ionic Research Foundations statements were "false and misleading" and requested immediate seizure of the devices and labeling.

References

<http://www.orau.org/ptp/collection/quackcures/ionic%20charger.htm>

"QUACK" CURES

Product Name:

GLAND TABLETS

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Nu-Man Gland Tablets
Vagatone Gland Tablets

Manufacturer

The Home Products Co
Suite C, Evans Building
Denver, CO.

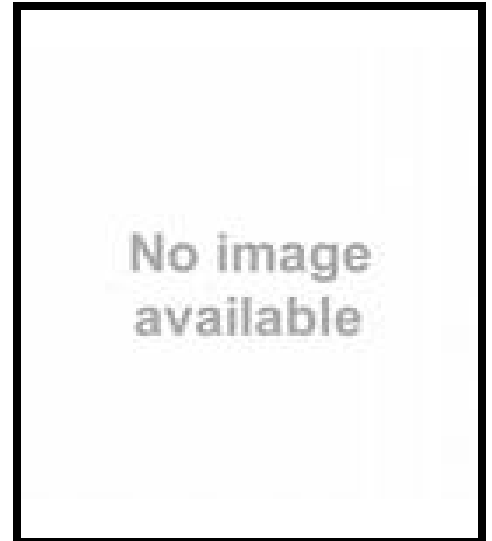
Description

Tablets

Manufacturer Claims

Nu-Man: Restores sexual power and endurance to men who have been weakened by excesses and loss of vital fluids. Brings back pep and vitality and can be expected to stop involuntary night emissions when due to lack of sex tone. It is recommended for the purpose of increasing the number of red corpuscles in the blood and thereby raising the individual's vitality and his resistance to colds, other sickness, and cold weather.

Vagatone: Will remedy sexual apathy or indifference due to low glandular activity.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

**GREAT RADIUM SPRING WATER
Co. BOTTLE**

Other Names

unknown

Manufacturer

Great Radium Spring Water Co. Inc. of
Pittsfield, Massachusetts.

Description

Glass bottle with embossed label:
"Great Radium Spring Water Co. Inc.
Pittsfield, Mass."

Manufacturer Claims

not available

Product dates

1920s

Source Information

Not radioactive

Exposure Rate Information

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

HEALING DEVICE

Product dates

1960

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Mercier Healing Device

Manufacturer

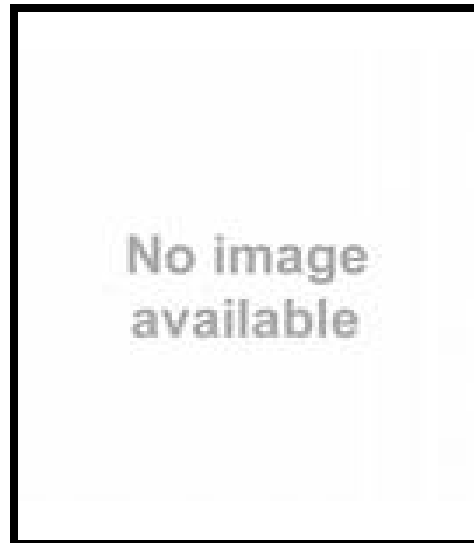
A.F. Mercier Laboratories
Andrew F Mercier
Phoenix, AZ.

Description

The item contained small racks containing tubes of chemicals such as radium-barium chloride, lanthanum oxide, thorium oxide and a sample of the patient's blood.

Manufacturer Claims

This item was used for treatment of mentally retarded children.



Comments

Used by osteopath A.H.Lee of Scottsdale, AZ.
Handling poses a greater risk than the treatment.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

LIFESTONE CIGARETTE HOLDER

Product dates

Early 1960s

Source Information

Likely radium

Exposure Rate Information

Unknown

Other Names

unknown

Manufacturer

not available

Description

The item consisted of a cigarette holder containing a radium source.

Manufacturer Claims

The manufacturer claimed that cigarette smoke passed over a small radium source. As the smoke was inhaled, the "wonderous efficacy of radium emanation products protects your health from injurious element in cigarette and makes it sweeter and milder." It also protected users from lung cancer and promised beautiful faces and excellent health.



Comments

none

References

Public Health Service - courtesy of Ed Tupin and Don Thompson.

"QUACK" CURES

Product Name:

MAGIC SPIKE

Product dates

1920s-1950s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

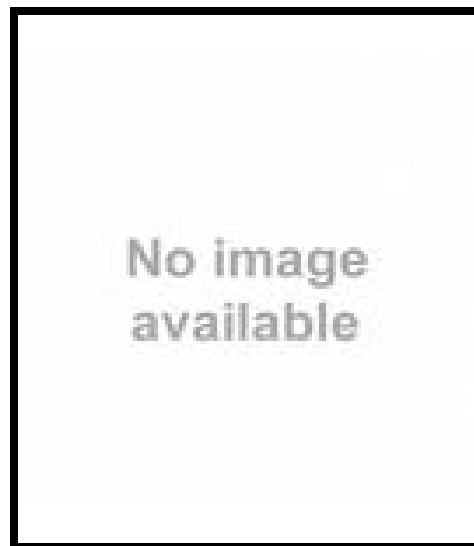
Vrilium Products Inc. / Robert T. Nelson /
Robert T. Nelson Jr / George C. Erickson /
Gertrude Nelson
Chicago, IL.

Description

2" long brass cylinder.

Manufacturer Claims

The manufacturer claimed that when the cylinder containing vrilium was used there were emanations into the atmosphere for a distance of 20' which discourage disease germs. It also emanated inward turning the patient's sick cells to healthy cells.



Comments

No such thing as vrilium, cylinder actually contained miniscule amount of barium chloride as rat poison. Corporate officers of Vrilium Products Inc. convicted under the Pure Food and Drug Act in April 1950. Sentence was \$1000 fine and one year confinement for each officer, and \$1000 fine from the corporation.

References

<http://cases.justia.com/us-court-of-appeals/F2/185/3/>
<http://www.time.com/time/magazine/article/0,9171,856607,00.html>

"QUACK" CURES

Product Name:

MAGIK RADIUM MASSAGE

Product dates

1920s-1930s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

The Home Products Co.
Denver, CO

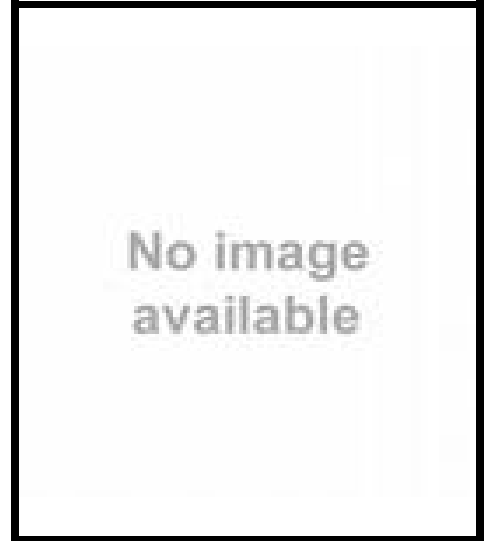
Description

Balm.

Manufacturer Claims

The manufacturer claims that "This ointment, when massaged into the sex parts, acts as a healthy tonic and stimulant, tending to give firmness and strength to the organs. It is especially effective for improving the circulation in the genital organs where they feel cold, clammy, and lifeless. Soon after beginning the use of this ointment you should notice the parts are taking on a pink, healthful appearance. Many men have even reported their tissues filled out nicely and became plump while using Magik Massage.

You should feel the warming, stimulating effect just as soon as you make the first application. Also recommended for use by women who lack normal desire and feeling."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

NAC PLATE

Product dates

Early 1980s

Source Information

Known uranium ore

Exposure Rate Information

unknown

Other Names

See "NICO Clean"

Manufacturer

Koei Bussan Company, Ltd., of Japan.

Description

The item consisted of a metal plate, approximately the size of a credit card (2" x 3") with low-grade uranium ore (approximately 1.1 pCi/g of U-238) on one side. The NAC plate was placed between the cigarette pack and cellophane wrapper with the effective side toward the pack.

Manufacturer Claims

The manufacturer claimed that "Ions emitted from natural (uranium) ore denature and reduce nicotine, tar and harmful gas without affecting the original tobacco taste". A U.S. Patent was applied for and received (#3,589,374), citing that nicotine will be reduced by 27% following a four hour exposure to a card with 150 cpm cm². The patent also stated that the cigarette may even taste milder after treatment if one has a "sensitive tongue".



Comments

none

References

- Boenig, H., et al., Method of Reducing Irritants in Tobacco by Gamma Irradiation. US Patent No. 3,358,694. December 19, 1967.
- Aoki, T., Nishida, N., Method of and Container for Treating Tobacco to Reduce Alkaloid and Tar Content Thereof. US Patent No. 3,589,374. June 29, 1971.
- Letter to S. Nakamura of the Koei Bussan Co., from K. Berthold of the FDA's National Center for Devices and Radiological Health. October 11, 1983.
- Letter to S. Nakamura of the Koei Bussan Co., from J. Lafluer of the Nuclear Regulatory Commission's Office of International Programs. August 22, 1983.
- Laboratory Analysis. Radiation Center of Osaka Prefecture. April, 1983.

"QUACK" CURES

Product Name:

NARADA RADIUM PREPARATIONS

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Narada Radium Massage Cream
Narada Radium Astringent
Narada Radium Tissue Cream
Narada Radium Liquid Foundation Cream
Narada Radium Complexion Cream
Narada Radium Balm

Manufacturer

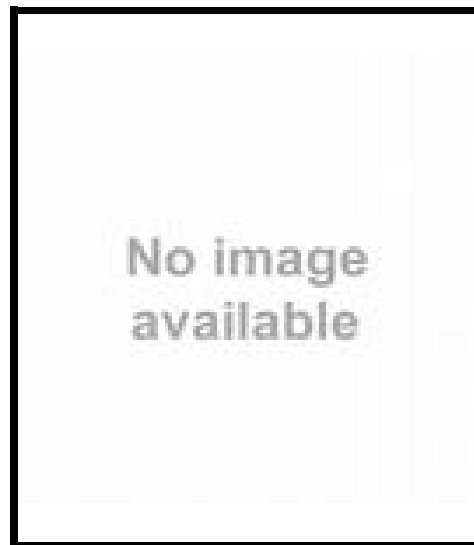
not available

Description

not available

Manufacturer Claims

The manufacturer claimed that the skin will be soft and refreshed, banishes wrinkles and flabbiness, relaxes muscles, analgesic, antiseptic, soothing, non-irritating. Remedy for burns, cuts, wounds, inflammation, sunburn, eruptions, irritations, mosquito bites and hives.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

NICO CLEAN

Product dates

1990s

Source Information

Known uranium ore

Exposure Rate Information

unknown

Other Names

NICO Clean Tobacco Card

Manufacturer

Manufactured in Japan
US Importer: Marine America, Inc., of
Seattle.

Description

The item consisted of a metal plate, approximately the size of a credit card (2" x 3") with low-grade uranium ore on one side. The item had dimensions of "2 x 3" card containing approximately 1.1pCi/g U-238.

Manufacturer Claims

The manufacturer claimed that putting the card in a pack of cigarettes for 20 minutes would "enhance your cigarette smoking while...lowering tar and nicotine - 17% average... produce milder smoking with no sacrifice in taste...50% reduction of toluene".



Comments

See "NAC plate"

References

- Boenig, H., et al. Method of Reducing Irritants in Tobacco by Gamma Irradiation. US Patent No. 3,358,694. December 19, 1967.
Aoki, T., Nishida, N. Method of and Container for Treating Tobacco to Reduce Alkaloid and Tar Sontent Thereof. US Patent No. 3,589,374. June 29, 1971.
NICO Clean Plate donated to ORAU by the State of Arizona.

"QUACK" CURES

Product Name:

PARADOX RADIUM LIQUID X-RAY

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

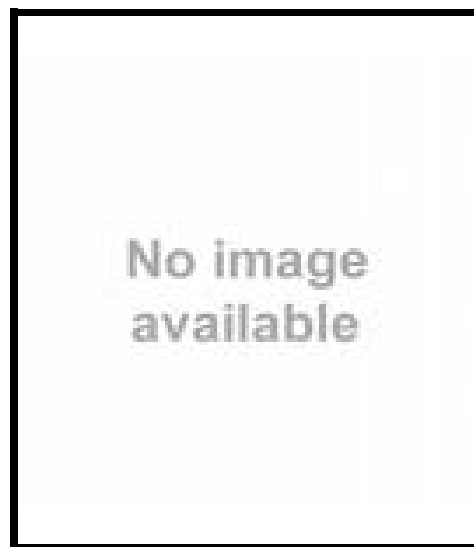
Paradox Radium Laboratories, Inc.
Chicago, IL.

Description

Unknown physical description, although likely a liquid or cream based on the manufacturer's claims.

Manufacturer Claims

Breaks down and destroys disease cells. Accelerates healthy tissue, expands capillaries and dissipates congestion. Eczema, in all forms, itch, irritation, chronic hereditary and transitory skin diseases, ulcers and inflammations yield readily to treatment.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

PARADOX RADIUM OINTMENT

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Ointment

Manufacturer

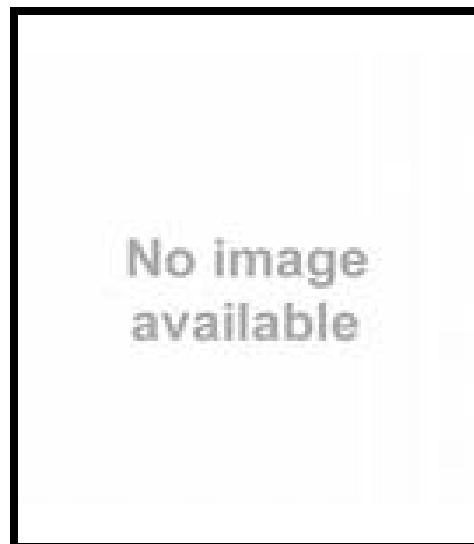
Paradox Radium Laboratories, Inc
Chicago, IL
Other Mfr: Radium Health Products Royal
Oak, MI

Description

ointment

Manufacturer Claims

Many times stronger in radium activity than the anode and cathode rays of Crook's tube. Destroys deep-seated, abnormal cells and promotes rapid, normal development. Used with marked results against acne, lupus, psoriasis, obstinate and acute or chronic eczema, chilblains, and long standing skin infections. Very powerful.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RA-3/RA-9

Product dates

1920s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

RA-3 Men
RA-9 Women

Manufacturer

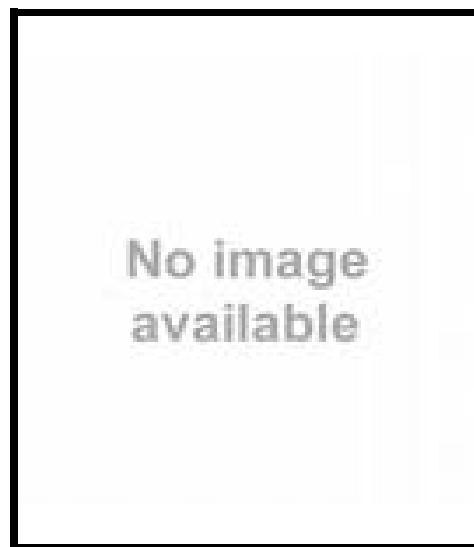
American Chemical Company
Pittsburgh, PA.

Description

The item contained liquid in a bottle.

Manufacturer Claims

The item directs misdirected body chemistry into the proper channels and stops production of abnormal secretions which may be causing disease or subnormal conditions.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIOACTIVE PADS / PACKS / COMPRESSES

Product dates

1920s-1930s, 1960s

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

Parapack
Radiwoll Pack
Radiogen Pack
Radio-active Body Pad
Cosmos Radioactive Pad
Gra-Maze Uranium Comforter
Ray Cura
Ward's Radium Ore Healing Pad
"Standard" Radium Compress
Q-Ray Electro Radioactive Dry Compress
Radon Pillow

Manufacturer

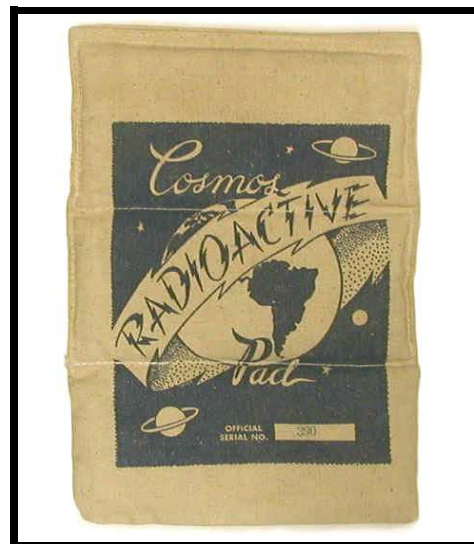
Various:
Rochester Radium Products Co -
Minneapolis, MN
Parapack Institute - Chicago, IL
Radium Appliance Sales Co - San
Francisco, CA
Henry Cosmos
Gra-Maze - La Salle, IL
J. Bernard King (location unknown)
V.C. Ward - Los Angeles, CA
Radium Chemical Co - Pittsburgh, PA
Sunshine Radon Mine - Boulder, MT
The Radium Mines Co., Radium-Active
Products- Green River, UT
National Radium Institute
Radiumized Applicator Co. Inc. - Buffalo,
NY
Spokane Radium Ore Co. - Spokane, WA
Radium Health Products - Royal Oak, MI

Description

Cloth packs of various sizes, dependant upon area of body or foot size to be treated. Contained radioactive "minerals" generally from uranium ores.

Manufacturer Claims

"Highly Efficient" remedy for rheumatism, neuritis, lumbago, sciatica, arthritis, neuralgia, gout, asthma, headache, general debility, insomnia, menstrual cramps, and other illnesses.



Comments

Representative picture featured.

References

<http://www.orau.org/ptp/collection/quackcures/quackcures.htm>

"QUACK" CURES

Product Name:

RADIOENDOCRINATOR

Product dates

1930s

Source Information

Known radium

Exposure Rate Information

200 mR/hr

Other Names

unknown

Manufacturer

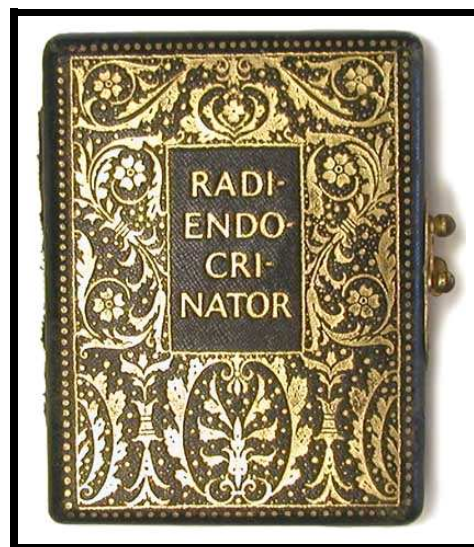
American Endocrine Laboratories (William J. Bailey).

Description

The item had dimensions of 2" x 3". It consisted of a dark blue leatherette case embossed with "Radioendocrinator". Inside the case, the source consisted of ~7 radium soaked pieces of paper, credit card sized, covered with clear plastic and gold wire screens. The case was placed over the endocrine glands to produce the benefits.

Manufacturer Claims

The item improved looks, character and memory. It was used for treatment of senescence, senility, early old age, general sexual weakness or deterioration, undeveloped physical capabilities or powers, loss of memory, nerve exhaustion, child defectiveness and other endocrine failures.



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/radend.htm>

"QUACK" CURES

Product Name:

RADIOGEN-SCHLAMM

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Allgemeine Radium AKT. GES.
Varmais Radiogen Berlin NW 7

Description

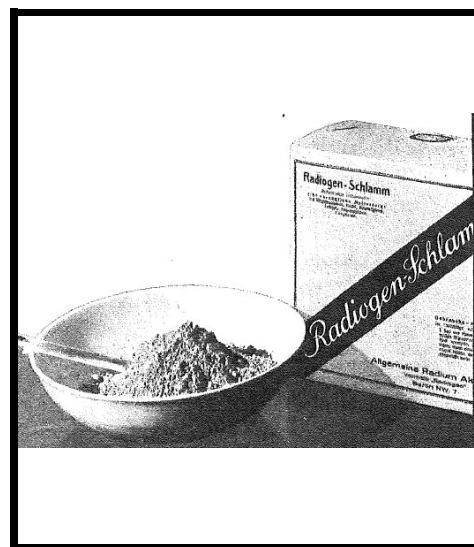
The item was available in 2 kg or 5 kg packages.

Manufacturer Claims

not available

Comments

Schlamm (german) = mud (english)



References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIONE

Product dates

1930

Source Information

Known radium

Exposure Rate Information

Unknown

Other Names

unknown

Manufacturer

United Radium Products Corporation
New York City, NY

Description

The item consisted of 20 tablets, containing about 250 pCi of Ra-226.

Manufacturer Claims

The item apparently created "strength of iron" and the "energy of radium".



Comments

none

References

Photo: National Atomic Museum, Albuquerque, NM.

"QUACK" CURES

Product Name:

RADIOPHAN INJECTIONS / PILLS

Product dates

1920s-1930s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Radiogen LTD London.

Description

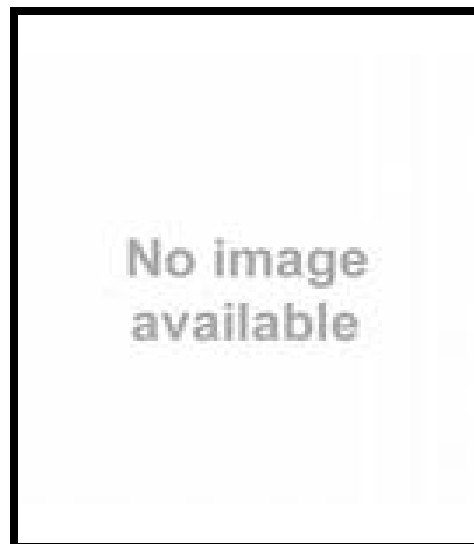
Injections: 4 cc. ampoules containing 1.3 ug of RaCl₂ and 0.5 g of Atophan (sodium salt of phenilquinoline carboxylic acid). Injections can be either intravenously or intramuscularly. The syringe and needle should be warmed and, for hypersensitive patients, the contents of the ampoule should be diluted in the syringe with 5-10 cc. of physiological solution. Normal dosage is 1-2 ampoules each day or each alternate day. The average course of treatment is 10-20 injections.

Pills: 0.05 ug RaCl₂ and 0.1 g Atophan (sodium salt of phenilquinoline carboxylic acid) pills coated in keratin to prevent gastric disturbances. Dosage is one or two pills, three to five times daily, with treatment lasting four to eight weeks.

Manufacturer Claims

Radium mobilises uric acid into a readily soluble form while Atophan assists elimination.

Assists the treatment of gout, rheumatism, arthritis, sciatica, lumbago, muscular pains, neuralgia, cholecystitis, cholangitis, pyelitis, and cystitis. Since treatments are ready for immediate use it makes them "specially suitable for the careless or unintelligent patient".



Comments

none

References

<http://www.chemindustry.com/chemicals/746084.html>

<http://en.wikipedia.org/wiki/Cinchophen>

"QUACK" CURES

Product Name:

RADIOR TOILET REQUISITES (MULTIPLE PRODUCTS)

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radior Peau de Velours (night cream)
Radior Rouge (compact)
Radior Compact Powder
Radior Vanishing Cream
Radior Talcum Powder
Radior Hair Tonic
Radior Skin Soap
Radior Under-Chin Pad
Radior Forehead Pad
Radior Face Powder

Manufacturer

Radior Co. LTD of London.
235 Fifth Ave.
New York, NY.

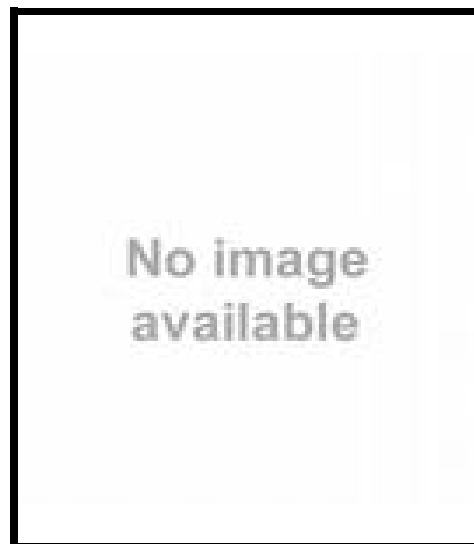
167 Oxford Street,
London

Description

Multiple products

Manufacturer Claims

The manufacturer claimed these items were unrivaled aids to beauty. They contained a "definite quantity of actual radium" with a \$5000 guarantee.



Comments

Ad from New York Tribune, Sunday November 10, 1918, Magazine Section, pg. 12.

References

<http://home.gwi.net/~dnb/gallery/radior/radior.htm>

"QUACK" CURES

Product Name:

RADIO-SULPHO BREW

Product dates

1910s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

not available

Description

Poultice, ointment, salve, syringes, catheters, tinctures, creams, powder, pills and hair tonics implied to be radioactive.

Manufacturer Claims

Home cure for cancer or malignant disease if bathed in or the cancer is washed with the brew. Advertised that cancers of the womb and breast were the simplest, easiest and quickest to cure. Sold for treatment to the white race only.



Comments

Proven fraud - preparations were, per Colorado State Board of Health chemist Dr. E. C. Hill, a "weakly alcoholic solution of Epsom salts disguised with a bitter vegetable." He states: "Radio-Sulpho itself consists of a strongly alkaline solution of sodium sulphid, with a little sodium carbonate and a decided odor of hydrogen sulphid (made presumably by heating together sulphur and commercial caustic soda in water)."

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIO-X GREASELESS CREAM

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

not available

Description

Jar.

Manufacturer Claims

The item was used for treatment of pimples, blackheads, freckles, sunburn, tan, seborrheae, oily skin and blemishes. It ends excessive sweating and unpleasant odor and treats sore gums and boils.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADISAVON RADIUM SOAP

Product dates

unknown

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

not available

Description

not available

Manufacturer Claims

not available



Comments

From St. Joachimstahl Bohemia (region where the Curies isolated radium from uranium ore)

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADITHOR

Product dates

1920s-1930s

Source Information

Known radium

Exposure Rate Information

2 μ R/hr @ 1'; 35 μ R/hr @ contact

Other Names

unknown

Manufacturer

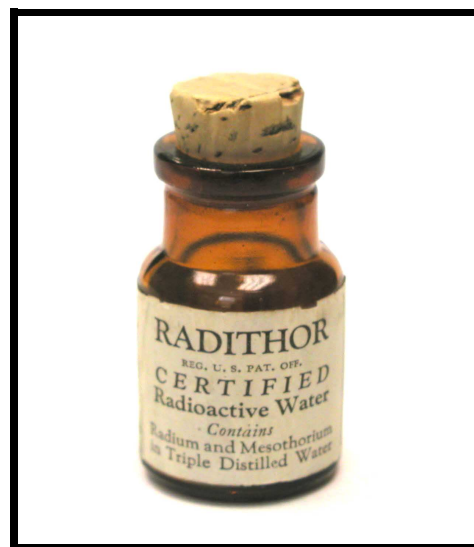
Bailey Radium Laboratories, Inc
William J. A. Bailey

Description

0.5 oz bottle containing 1 μ Ci each of Ra-226 and Ra-228 in distilled water.

Manufacturer Claims

The manufacturer guaranteed the item was harmless in every respect. The item cured: amenorrhea, anemia, angina, arthritis, arteriosclerosis, asthenia, asthma, chorea, diabetes, epilepsy, glandular stimulant, general debility, gastric neurosis, heart disease, palpitations, high blood pressure, hyper/hypo thyroid, hysteria, infection, inflammatory conditions, kidney disease, menopause, metabolism, muscular atrophy, myelitis, neuralgia, neurasthenia, neurosis, obesity, prostatitis, rheumatism, senility, sexual decline, sinus conditions, skin disorders, wrinkles, stimulant, and virility.



Comments

1/17/1932: The Federal Trade Commission ordered the end to claims that the product was harmless and would improve the 160 conditions listed in the advertising literature.

References

Radithor-Perpetual Sunshine Booklet. Bailey Radium Laboratories Inc 1928
Radithor and the Era of Mild Radium Therapy. Roger M Maklis MD, JAMA. 1990;264:614-618
The Radiotoxicology of Radithor: Analysis of an Early Case of Iatrogenic Poisoning by a Radioactive Patent Medicine. Roger M Maklis MD, et al, JAMA.1990;264:619-621
The Great Radium Scandal. Roger M Maklis MD. Scientific American. August 1993.

"QUACK" CURES

Product Name:

RADIUM APPLICATORS

Product dates

1860s-1890s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

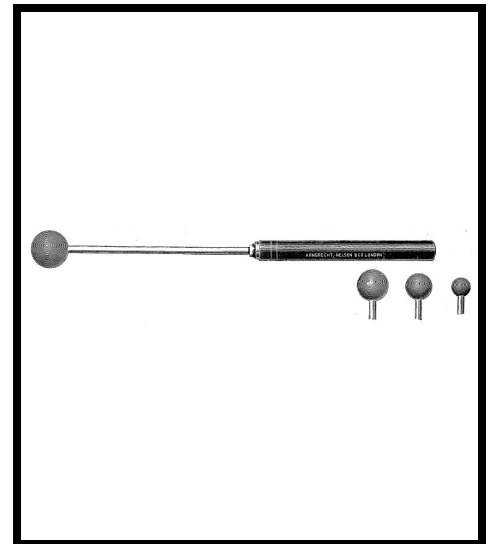
Armbrecht, Nelson & Co
71 & 73 Duke St
Grosvenor Square W.
London
Other Mfg: National Radium Institute

Description

The applicators consisted of flat discs 1/4" - 2" diameter, rings, rods, flexible aluminum wands with celluloid balls, and probes.

Manufacturer Claims

The manufacturer claimed the item treated lupus, rodent ulcers, boils, pimples, surface epithelioma, any complaints for skin surface, spinal treatment, rectum and vagina, ears, nose, throat and rings for hands and fingers of nervous character. Any shape, any strength of radioactivity can be made given price limits.



Comments

Later applicators (plaques) made for medical use.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIUM BREAD

Product dates

1920

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Hippman-Blach Bakery
St. Joachimstahl (Jochymov, now part of
Czech Republic)

Description

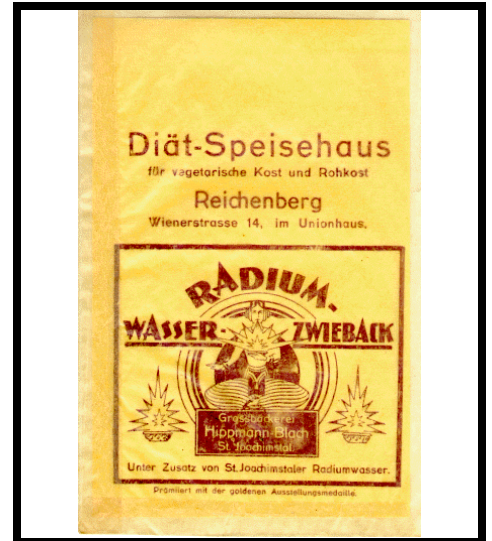
Bread.

Manufacturer Claims

not available

Comments

Bread containing water from St. Joachimstahl containing slightly elevated radium levels.



References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIUM BROMIDE

Product dates

1960s

Source Information

Known radium

Exposure Rate Information

4 μ R/hr @ 2"

Other Names

unknown

Manufacturer

Boericke & Runyon
Boericke & Tafel
Pharmacy
Philadelphia, PA

Description

6X, 8X and 12X dilutions of radium bromide triturations.

Manufacturer Claims

The manufacturer claimed the item was a homeopathic remedy.



Comments

Homeopathic remedy.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIUM ELECTRODE

Product dates

1930s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Aeona Radium Electrode

Manufacturer

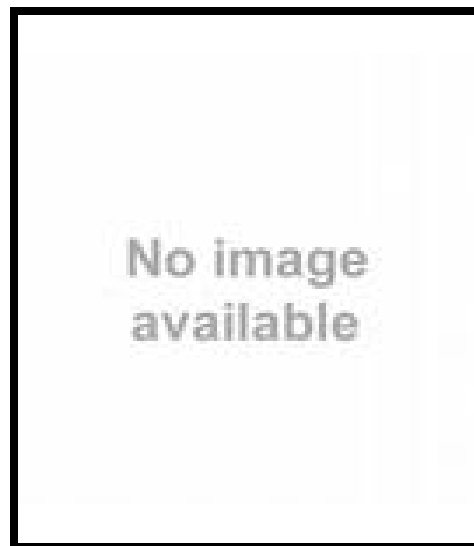
Aeona

Description

The item consisted of a glass tube filled with neon gas. The tube has seven indentations containing radium. Electrodes were comprised of differing types and sizes.

Manufacturer Claims

The item will soothe, stimulate, beautify and cure a variety of ills. Radon will be driven out by electrical current and derive benefit from the current and the radiation. The radium is guaranteed not to rub off the electrode and can be sterilized in hot water or alcohol.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIUM EMANATION BATH

Product dates

1925

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Radium Emanation Bath Salts
Radium Bath Bags

Manufacturer

Denver Radium Service

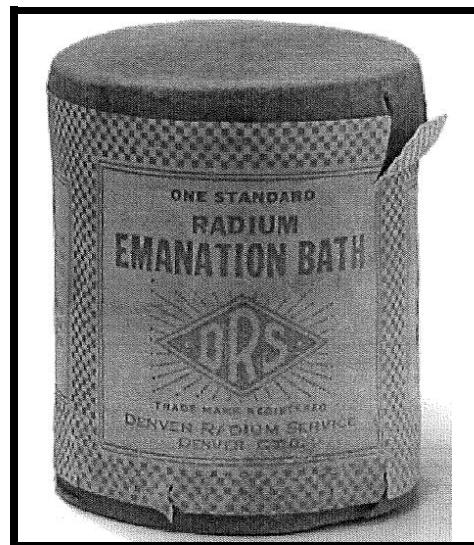
Other mfgs:
National Radium Institute,
Spokane Radium Ore Co.,
Radium Health Products

Description

The bath salts came in a cardboard container measuring 2.5" x 2" (Denver Radium).

Manufacturer Claims

The manufacturer claimed the item was good for nervous disorders, insomnia, general debility, arthritis, and rheumatism.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

Product Name:

RADIUM FACE CLAY

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Imported from Czechoslovakia (could this be Radiogen-Schlamm?) by P. Greensburg
NYC

Description

Cosmetic clay.

Manufacturer Claims

Invaluable in the care of sunburn or in treating pimples, blackheads, coarse pores and similar defects.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIUM MOUNTAIN WATER

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

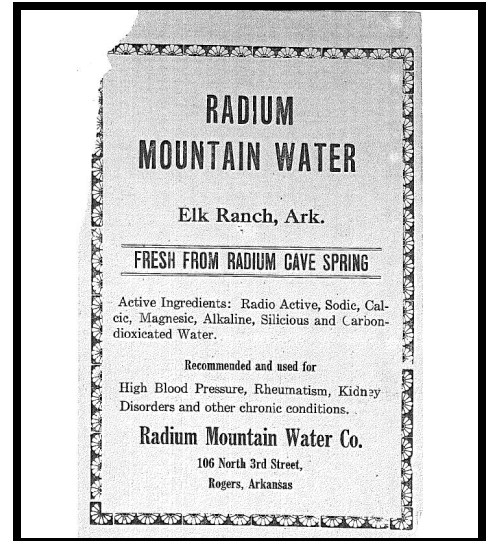
Radium Mountain Water Co
106 N 3rd St
Rogers AR

Description

water bottled from Radium Cave Spring in AR. Active ingredients begins with "Radio Active".

Manufacturer Claims

recommended for high blood pressure, rheumatism, kidney disorders and other chronic conditions.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADIUM RADIA

Product dates

1900s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Radium Radia Co - Los Angeles CA

Description

Bottle containing liquid.

Manufacturer Claims

The world's greatest remedy for the cure of rheumatism, neuralgia, sciatica, lumbago, sprains, backache, headache, gout, and all pains in the limbs, chest and throat. Never known to fail.



Comments

Except name no representation to actually be radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/radiumradia.htm>

"QUACK" CURES

Product Name:

RADIUM REMEDIES (MULTIPLE PRODUCTS)

Product dates

1930s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Active Drinking Water
Radium Baths
New Life Radium Pads
Radium Penetrating Balm
World's Greatest Healer

Manufacturer

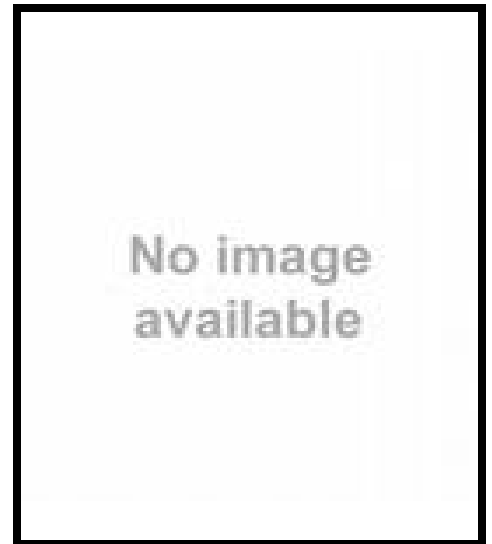
Colwell Radium Co.
St. Paul, MN

Description

Multiple products, see comments.

Manufacturer Claims

Recommended for treatment of: gout, rheumatism, lumbago, sciatica, arthritis, neuritis, neuralgia, Bright's disease, gall bladder trouble, appendicitis, anaemia, impotency, premature old age, paralysis, nervousness, gastric ulcers, liver disorders, high blood pressure, eczema, psoriasis, chronic skin diseases, obesity, locomotor ataxia, gastro intestinal, fermentation, gastric dyspepsia, heart trouble, tonsil trouble, sinus trouble, nephritis, insomnia, flatulence, goiter, constipation, chronic diarrhea, diabetes, tuberculosis, asthma, skin infections, bronchial trouble, tumors, hay fever, and inflammatory conditions.



Comments

*Drinking water: Take 1/3 of ore from jar, place in a two-quart Mason jar, fill with water and close tight letting it stand for twelve hours to charge. Drink one glass the first day, two the second and so on up to six glasses daily. Every two months add another third of the ore, until ore in the jar is used up in like manner. This jar of ore will last for six months. Keep jar full to top. If not used for two or three days throw it away as it will be too strong. Refill with fresh water.

*Pads: Apply to affected area.

*Baths: Put all of radium bath in a gallon of water to charge 36 hours, seal tight, pour the water off into your bath, get into the bath and turn on the hot water as hot as you can stand it, letting it come up to the neck. Keep a cold pack on the head. Remain in the bath from 30 to 45 minutes. Wrap in blanket and lie down one hour. Rub with balm.

*Salve: Apply from one to four times a day. If the parts do not inflame, use up to four applications a day. If you find the remedy too strong, reduce with half water. The salve is to be used at night with a thin spread. In the treatment of babies and small children, reduce the remedy to one-half strength, and use a little olive oil at night.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RADOL

Product dates

1900s-1910

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

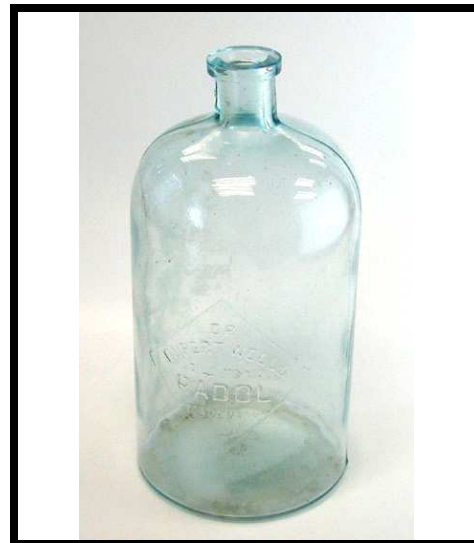
Dr. Rupert Wells (really Dennis Dupuis)
2735 Radol Building
St. Louis, MO.

Description

Glass bottle 10" x 4 1/2".

Manufacturer Claims

"Radium impregnated", "marvelous radiotized fluid" that will cure cancer. Bottle "contains Radol a radium impregnated fluid, prepared according to the formula and under the supervision of Dr. Rupert Wells, of St. Louis, MO. This fluid is not expected to retain its radio activity beyond 40 days from the date of this label." Directions for use: take one tablespoon in a wineglass of water before each meal and at bed-time.



Comments

Solution was actually a mix of quinine sulphate and alcohol. Solution glowed bluish which Wells claimed was due to radium. Fraudulent claims eventually caused USPS to deny him the use of US Mail.

References

<http://www.orau.org/ptp/collection/quackcures/radol.htm>

"QUACK" CURES

Product Name:

RA-THOR PLAC

Product dates

unknown

Source Information

Known radium

Exposure Rate Information

Variable based on location. See comments.

Other Names

unknown

Manufacturer

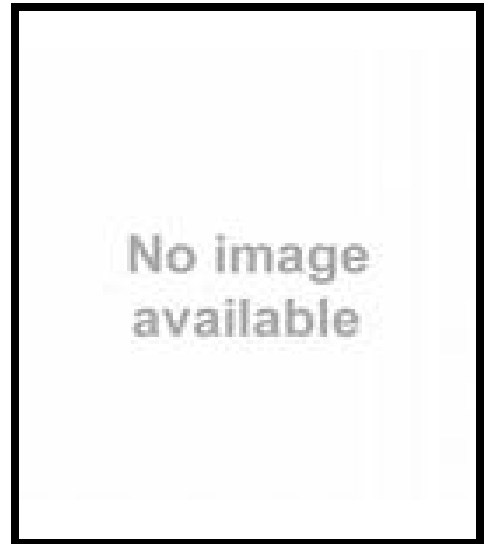
not available

Description

not available

Manufacturer Claims

not available



Comments

Estimated activity (by calculation) = 55 μ CI Ra-226,.

Exposure Rates:

Front - 60.0 mR/hr

Back - 200.0 mR/hr

Through cover - 25.0 mR/hr

References

Paul Frame, PhD, CHP

Manager ORISE Professional Training Program

ORISE historical radium item information binders

"QUACK" CURES

Product Name:

RA-TOR RADIUM MINERAL WATER

Product dates

unknown

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Ra-Tor Mining & Manufacturing Co.
Tyrone, NM

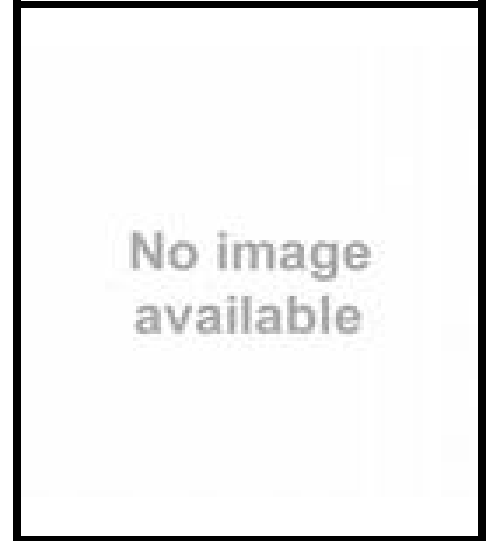
Description

Jar of ore to be covered with water to be drunk when radon is on equilibrium.

Manufacturer Claims

The manufacturer claims:

"If sick - drink Ra-Tor Radium Mineral Water to regain health and lost vigor. If well - drink Ra-Tor Radium Mineral water to keep well and increase your resistance to disease. This is not a drug or a medicine, but a natural product brought to you straight from the treasure vault of Nature, a God-given healing substance for suffering mankind."



Comments

Company also produced Ra-Tor Plac for medicinal use, Ra-Tor Beauty Clay the "new scientific beautifier" and Ra-Tor Fertilizer the "greatest of all plant stimulants".

References

Ra-Tor Radium Mineral Water pamphlet reproduced by the Silver City Museum

"QUACK" CURES

Product Name:

REJUVENATOR

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Sulphate Rejuvenator

Manufacturer

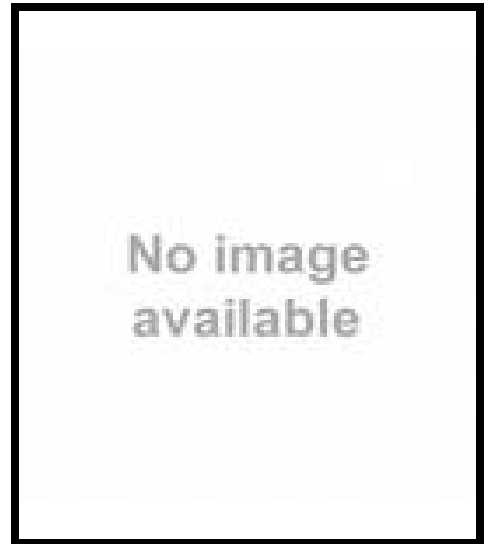
Dr. S. Charles Gould
Suites 316-317 Liberty Building
Bridgeport, CT
Telephone Noble 499

Description

not available

Manufacturer Claims

Stops unnatural loss of vital fluid, cleans out diseases of piles, fistula of the rectum, veriocele, hydrocele, prostate gland, bladder, lower section of the spine, lumbage and sciatic nerve.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

SLEEPY WATER

Product dates

1910s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

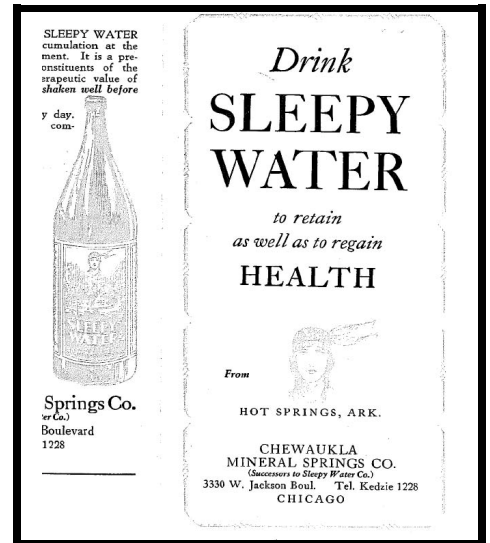
Chewaukla Mineral Springs Co.,
Sleepy Water Co.

Description

Glass bottle with paper label.

Manufacturer Claims

The water was claimed to restore natural health balance by neutralizing the unhealthy or diseased condition of acidity in the body with its slightly alkaline nature.



Comments

The water was bottled from a spring in Hot Springs, AK. There were probably no actual radioactive materials, advertised more based on the mineral contents than the radioactive assets, but the fact that it comes from a radioactive spring is still noted in the brochures.

References

Brochure: "Drink SLEEPY WATER to retain as well as to regain HEALTH."

"QUACK" CURES

Product Name:

SOOTHOL RADIUM BOUGIES

Product dates

1920s-1930s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

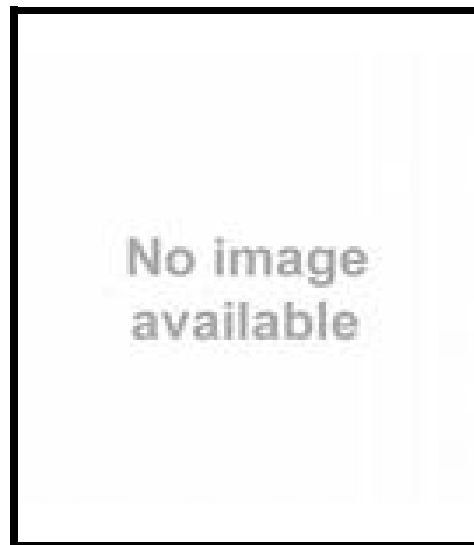
The Home Products Co.
Denver, CO

Description

Shaped like a pencil, is about six inches long and one-eighth of an inch in diameter to be inserted into the urethral canal. It contains soluble radium salts in a gelatine base which quickly dissolves when introduced to the urethra.

Manufacturer Claims

Stops premature ejaculation due to inflamed, congested or irritated condition of the urethral canal and prostate gland resulting from excessive indulgences, venereal infection or injurious habits. Stops stricture making it easier to pass urine.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

SPA-RADIUM BULBS

Product dates

1930s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Radium Sparklets
Radon Bulbs

Manufacturer

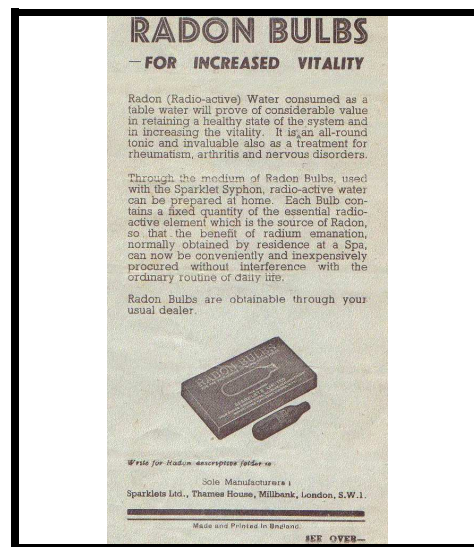
Sparklets Limited
Upper Edmonton, London

Description

Radon bulbs for use with the syphon.

Manufacturer Claims

The manufacturer claimed increased vitality, treatment for rheumatism, arthritis and nervous disorders.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

SPARKLET SYPHON

Product dates

1930s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Sparklets Corporation
Subsidiary of Sparklets Limited of Great
Britian

Description

13" x 4" bottle to be used with radon bulbs.

Manufacturer Claims

Provides remarkable curative results for increased vitality.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

STANDARD RADIUM SOLUTION FOR DRINKING

Product dates

1915-1920

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Standard Chemical Company, Pittsburgh,
PA

Description

2 μCi Ra-226, lower quantity of Ra-228.

Manufacturer Claims

For help with subacute and chronic joint and muscular conditions, high blood pressure, nephritis, simple and pernicious anemias.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

STANDARD RADIUM SOLUTION FOR INTRAVENOUS USE

Product dates

unknown

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

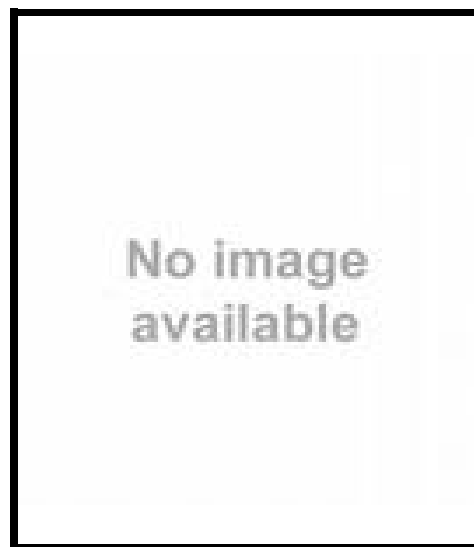
Radium Chemical Company
Pittsburgh, PA

Description

2 cc ampoules.

Manufacturer Claims

For treatment of subacute and chronic joint and muscular conditions, high blood pressure, nephritis, and simple and pernicious anemias.



Comments

5, 10, 25, 50, or 100 μg of radium.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

TESTONE RADIUM APPLIANCE AND SUSPENSORY

Product dates

1920s-1930s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Testone Radium Energizer

Manufacturer

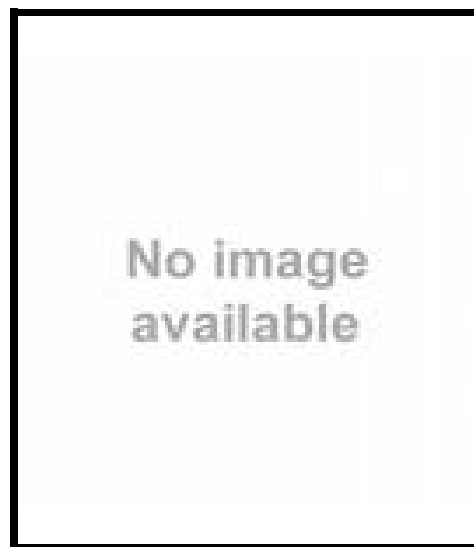
The Home Products Co.
Denver, CO

Description

6" x 3" rubber envelope containing radium salts protected with a silk cover. To be worn wrapped around the testicles and held in place with the suspensory - 6" x 5" cloth pouch with bands of fabric to tie around the waist and legs.

Manufacturer Claims

Contains 20 µg refined, measured radium. Applies the energizing gamma rays to the male gonada, or testes. These vital sex glands will be normally active flooding the individual with pep and a sense of fitness, well-being and happiness.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

THO-RADIA FACE CREAM

Product dates

1930s-1960s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Dr. Alfred Curie

Description

Jar of cream.

Manufacturer Claims

The item was claimed to activate circulation, tone, firm tissues, eliminate fat, and suppress wrinkles.

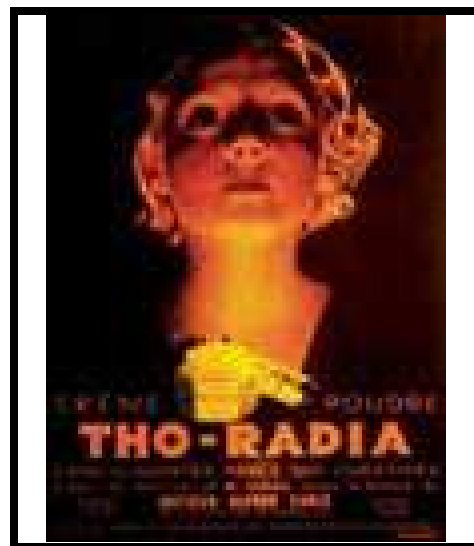
Comments

The item was introduced in 1933 and probably did contain thorium and radium until about 1940. It was produced until the early 1960s without radioactive material.

Alfred Curie was not related to Pierre or Marie Curie.

References

www.curie.fr



"QUACK" CURES

Product Name:

THO-RAD-X

Product dates

1910s-1920s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radio-Thor-X

Manufacturer

The American Thor-X Company
Frank H. Blackmar, MD
Suite 735-737 Marshall Field Building
Chicago, IL

E. Stillman Bailey, MD
Suite 711
Marshall Field Building
Chicago, IL

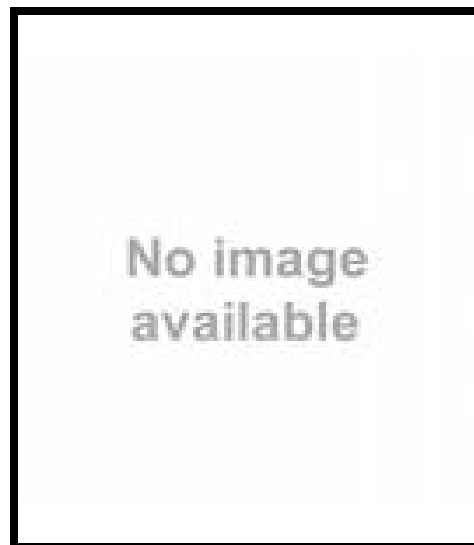
North American Building
Chicago, IL

Description

Sold by weight at \$3/dram (unit of weight).

Manufacturer Claims

not available



Comments

A letter sent to a physician indicates multiple products (apparatus, pads, room, emanation) sold by company said to contain radium and thorium.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

TORB SUPPOSITORIES

Product dates

1927

Source Information

Known uranium ore

Exposure Rate Information

unknown

Other Names

Torb "Radium-Active" Suppositories

Manufacturer

not available

Description

The suppositories contained about 0.005 μCi of Ra-226 in the form of Torbernite uranium ore.

Manufacturer Claims

The item was used to treat external and internal piles, pruritis and rectal inflammations, etc.



Comments

Consisted of a package of twelve radium-containing suppositories with powdered myrrh and cocoa butter.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

VIGOR HEALTH PENDANT

Product dates

1930

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Certified Radium Therapy Company
Chicago, IL

Description

The item consisted of a brass cylinder 1.5" long, containing about 16 μ Ci of radium.

Manufacturer Claims

not available

Comments

A safety pin was used to fasten the pendant over the area to be treated.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders



"QUACK" CURES

Product Name:

VITA RADIUM SUPPOSITORIES

Product dates

1930

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Vita Radium Suppositories - Men
Women's Special Suppositories - Women

Manufacturer

The Home Products Co.
Suite C Evans Block
Denver, CO
Other Mfg: National Radium Institute

Description

Suppositories were wrapped in a plain brown wrapper.

Manufacturer Claims

According to the manufacturer, the item was perfectly harmless. It was intended for use by men only for properly functioning glands, mental alertness, and restorers of sex. Splendid for correcting piles and hemorrhoids.

Women's Special: Treats inflammation, ulcers, discharges, and infections of the vaginal tracts. Miraculously effective for uterine hemorrhage.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES

Product Name:

WYNNE'S RADIUM TUBE

Product dates

1920s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

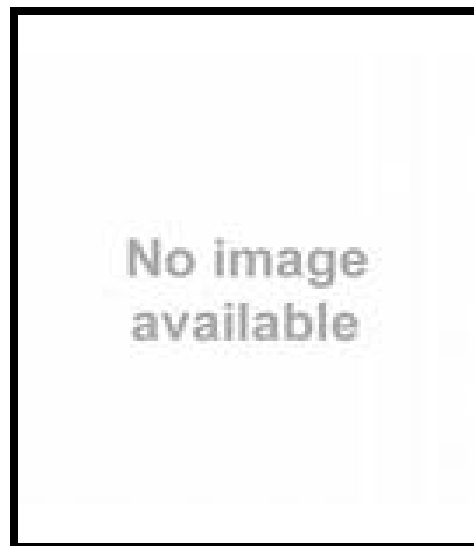
not available

Description

Chamois bag containing powdered substance and metal tube 7" x 3/8".

Manufacturer Claims

not available



Comments

The kit was sold by a H.E. Wynne Chicago, IL in 1924. Copies of letter and memo dated 1/8/1925 and 5/19/1924 respectively. Copies sent to Mr. Miller at Dept. of Justice 6/13/1936 according to a handwritten note in corner.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

AKTIVATOR EMANATOR

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

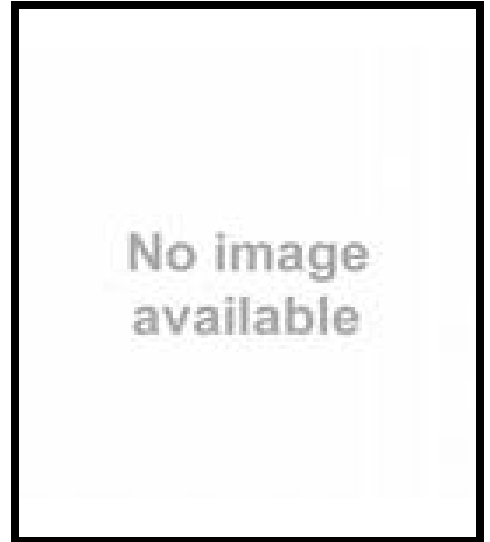
unknown

Description

none

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

CURIE RE-GENERATOR JAR

Product dates

1920s

Source Information

Known uranium ore

Exposure Rate Information

8 μ R/hr above background at one foot from disc

Other Names

unknown

Manufacturer

Curie Radium Company

Description

Two-piece jar with stone disc.

Manufacturer Claims

The brochure states that radioactive water will help with the following disorders: diabetes, glycosuria, albuminuria, arteriosclerosis, gout, rheumatism, neuritis, arthritis, neurasthenia, Diminution of sexual vitality.

It then says that the "liquid sunlight re-generator produces amazing results:-- as an aid in healing disease, relieving pain, increasing strength and energy, steadying the nerves, banishing rheumatism, reducing high blood pressure, invigorating the glands, restoring normal action to stomach, intestines, kidneys, liver, prostate and bladder, rejuvenating the body, retarding signs of age, improving the appearance and prolonging the vigorous enjoyment of life."



Comments

Water is poured into the top section and then drips through to the lower section. The disc is put in the bottom section and infuses the water with radon ("niton" as per the brochure) gas.

References

<http://www.ornl.gov/ptp/collection/quackcures/curiejar.htm>;
Curie Radium Company of America brochure about "The Curie Radio-Active Re-Generator and Stone Water Filter."

"QUACK" CURES - EMANATORS

Product Name:

CURT SCHMIDT DEVICE

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

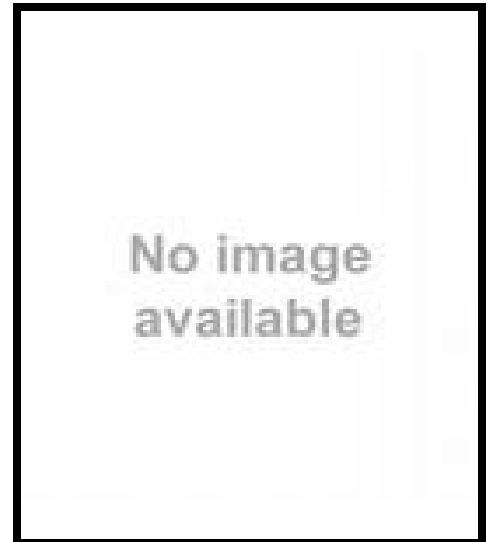
unknown

Description

none

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

DR. SAUBERMANN'S RADIUM THERAPY JAR

Product dates

unknown

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

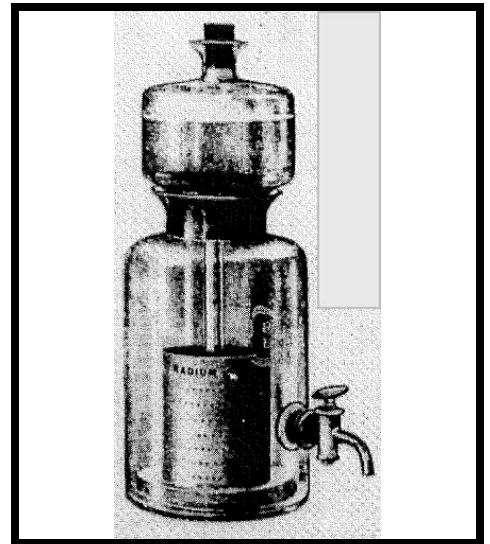
Radium Limited London

Description

Perforated earthenware "activator" in a glass jar to impart radon to water.

Manufacturer Claims

this apparatus gives a high and measured dosage of radio-active drinking water for the treatment of gout, rheumatism, arthritis, neuralgia, sciatica, tabes dorsalis, catarrh of the antrum and frontal sinus, arterio-sclerosis, diabetes and glycosuria, and nephritis. It continuously emits radium emanation at a fixed rate and keeps the water in the jar always charged to a fixed and measurable strength, from 5000 to 10000 mache units per litre per diem.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

ERKO EMANATOR

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

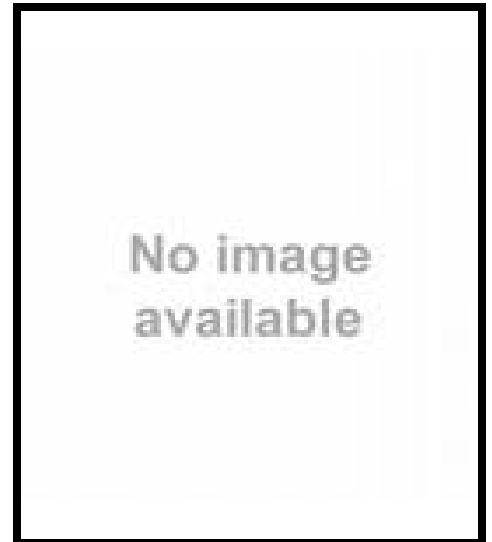
unknown

Description

none

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

**FEDERAL RADIUM LAB
EMANATOR**

Product dates

1930s

Source Information

Known uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Federal Radium Lab St Louis

Description

Top-hat shaped solid piece containing uranium ore. To be put in drinking water.

Manufacturer Claims

unknown



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/radiumpot.htm>

"QUACK" CURES - EMANATORS

Product Name:

FONTANO EMANATOR

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

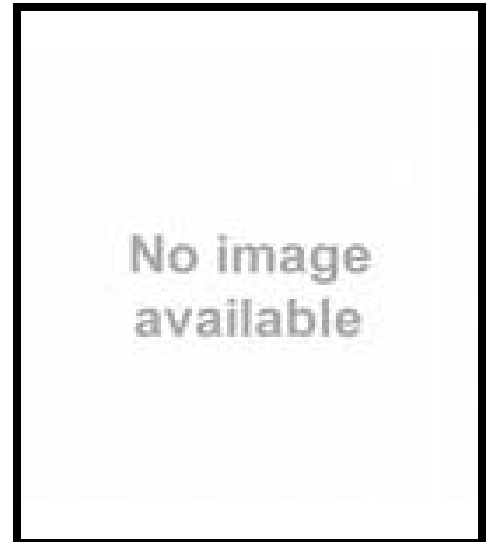
unknown

Description

none

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

HAMMER RADIUM ORE BAR

Product dates

1930s

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

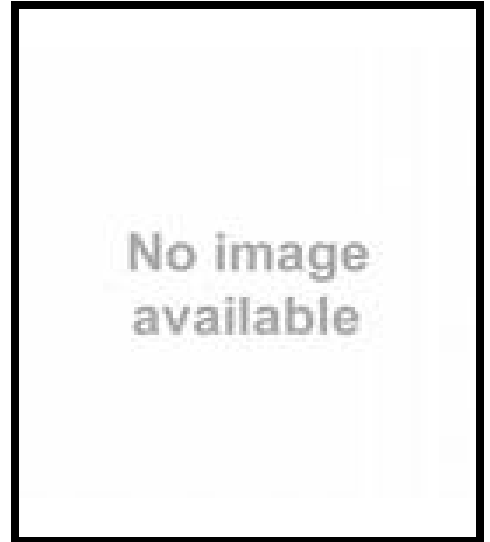
Hammer Radium Co St.Louis

Description

Brick of ore to put in drinking water.

Manufacturer Claims

According to the manufacturer, radium therapy is indicated for a wide variety of diseases, chiefly the following: rheumatism, gout, arthritis, neuritis, neuralgia, sciatica, facial paralysis, lumbago, menstrual pains, post-operative pains, inflammatory diseases such as that of the gall bladder, joints and pleurisy, general debility, arteriosclerosis, loss of vitality, senility, etc.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

HEALTH FOUNTAIN

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

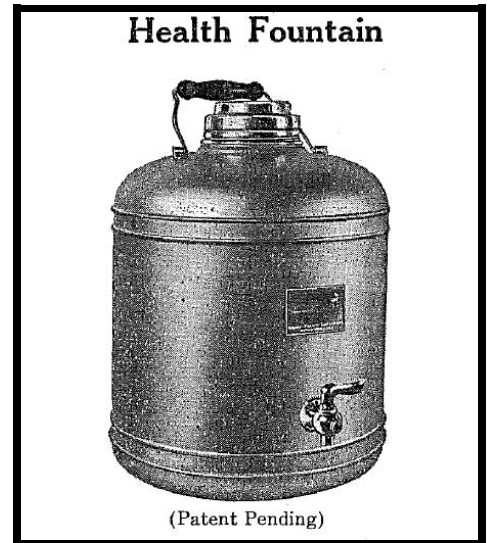
Radium-Health Corporation
Wooster, OH.

Description

The item consisted of an insulated water container with a radium unit.

Manufacturer Claims

The item was claimed to relieve: rheumatism, disorders of old age, high blood pressure, hardening of the arteries, constipation, nervous disorders, headaches, neuritis, autointoxication, toxemia, eczema, hay fever and skin diseases.



Comments

Slogan: "A Health Fountain in Every Home"

References

Wooster Daily Record August 6, year unknown.

"QUACK" CURES - EMANATORS

Product Name:

HELIO-LUX

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

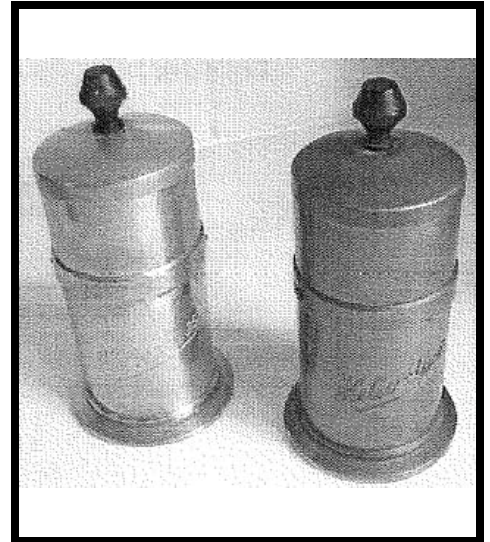
unknown

Description

Metal emanator for imparting radon to water.

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

HOGAN RADIO-ACTIVE ORE

Product dates

1930s

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

Radium Stone

Manufacturer

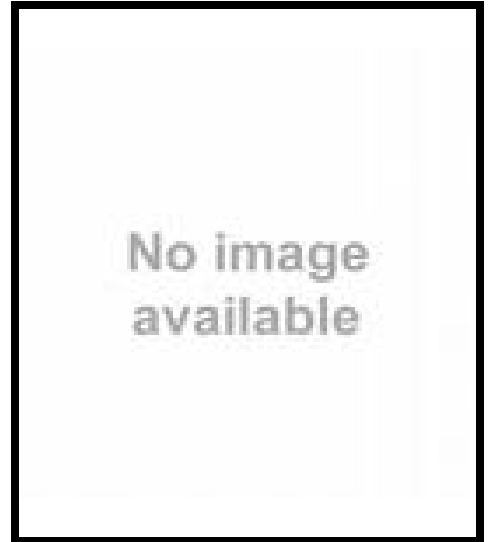
J.R. Hogan Radium Co.

Description

Ore to be placed in drinking water.

Manufacturer Claims

Radium therapy is indicated for a wide variety of diseases, chiefly the following: rheumatism, gout, arthritis, neuritis, neuralgia, sciatica, facial paralysis, lumbago, menstrual pains, post-operative pains, inflammatory diseases such as that of the gall bladder, joints and pleurisy, general debility, arteriosclerosis, loss of vitality, senility, etc.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

LAR'S RADIUM EMANATOR

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

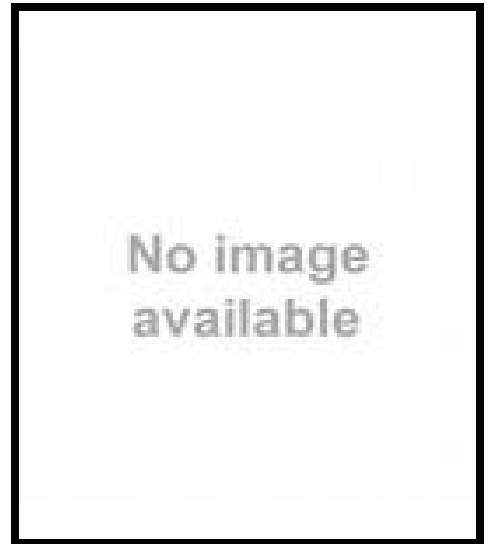
unknown

Description

unknown

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

LIFETIME RADIUM-VITALIZER WATER JAR

Product dates

1920s

Source Information

Known uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

National Radium Corporation,
Chicago, IL, and Denver, CO

Description

not available

Manufacturer Claims

The manufacturer claims that:

"The items aids nature by increasing the number of and building up the red corpuscles of the blood. It eliminates poisons from the system, causing the best of digestion of your food.

Nature then cures you."



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/radiumvitalizer.htm>

"QUACK" CURES - EMANATORS

Product Name:

NATIONAL RADIUM EMANATOR

Product dates

1923-1930s

Source Information

Known radium

Exposure Rate Information

5-8 mR/h @ 1'

Other Names

unknown

Manufacturer

National Radium Products Company
New York, NY

Description

Emanator inside a carrying case.

Manufacturer Claims

unknown



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/nationalradiumemanator.htm>

"QUACK" CURES - EMANATORS

Product Name:

OFFRA EMANATOR

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

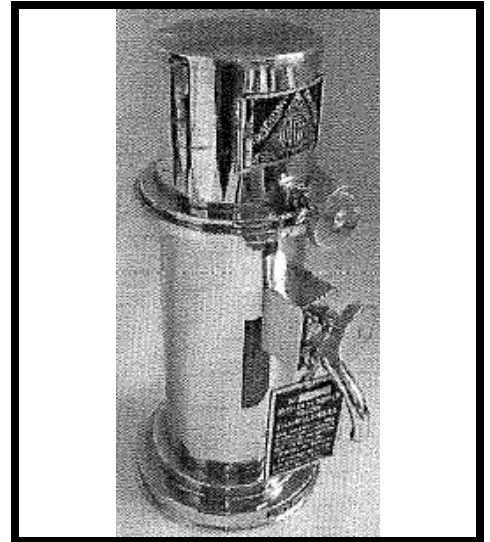
unknown

Description

Radon emanator for drinking water.

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIOAK GENERATOR

Product dates

unknown

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

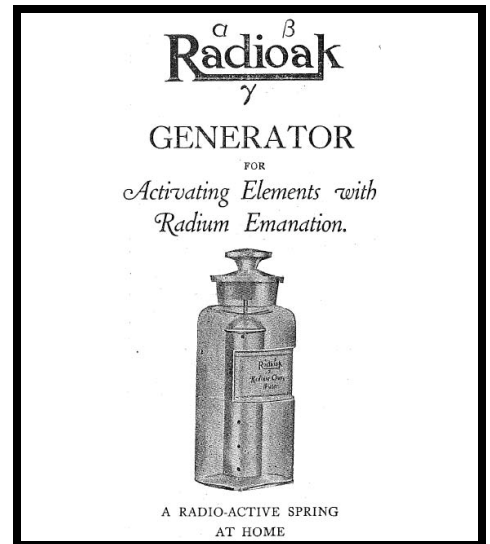
Radioak Laboratories

Description

Glass vial with radium pod inside. Fill with water for drinking.

Manufacturer Claims

"For radiant health."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIORE

Product dates

1920s-1930s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Radiore Filter

Manufacturer

The Radiore Corp.
32 S Erie St.
Massillon, OH

Description

Two part jar with disc.

Manufacturer Claims

The manufacturer claimed that the item makes the "most foul water wholesome and good." It aids disease healing, relieves pain, increases strength and energy, steadies the nerves, banishes rheumatism, reduces high blood pressure, invigorates the glands, restores normal action to the stomach, intestines, kidney, liver, prostate and bladder, rejuvenates the body, retards signs of aging, improves the appearance and "prolongs the vigorous enjoyment of life."



Comments

The testimonials are exactly the same as those for the Curie Re-Generator jar.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIO-REM EMANATOR

Product dates

1920s-1930s

Source Information

Known radium

Exposure Rate Information

12 μ R/h @ 1' (single bottle)

Other Names

unknown

Manufacturer

Schiefflin & Co.
New York, NY

Description

Eight bottles in a box. Fill them with water, allow to "charge" with radon and drink daily.

Manufacturer Claims

unknown



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/radiorem.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADIUM APPARATUS

Product dates

1910s

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

Radium Therapy Apparatus

Manufacturer

International Radium Corporation

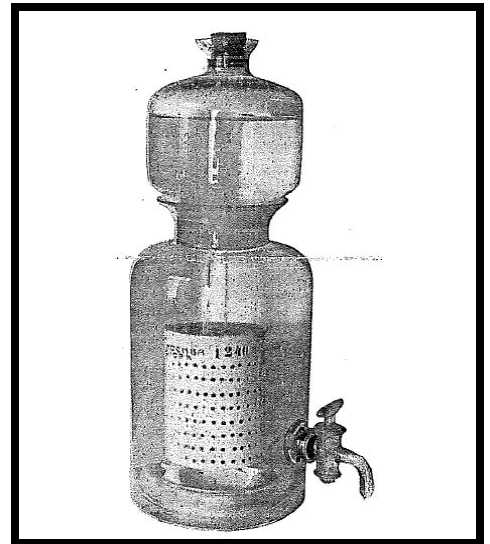
Description

Two-piece jar with an earthenware "activator" in the lower jar.

Manufacturer Claims

The manufacturer claims that the item treats rheumatism, arthritis, neuralgia, sciatica, gout, tabes dorsalis, catarrh of the antrum and frontal sinus, arterio-sclerosis, blood diseases, constipation, diabetes and glycosuria, and nephritis.

The manufacturer also claims that the device charges water to 1.8 - 3.6 microcuries of radon per liter.



Comments

The manufacturer says that the item is only supplied to those with a diagnosis by a qualified physician.

References

"Living With Radiation" pg. 2

"Radium Apparatus" Advertisement by the International Radium Corporation

"QUACK" CURES - EMANATORS

Product Name:

RADIUM BATH CYLINDER

Product dates

1930s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

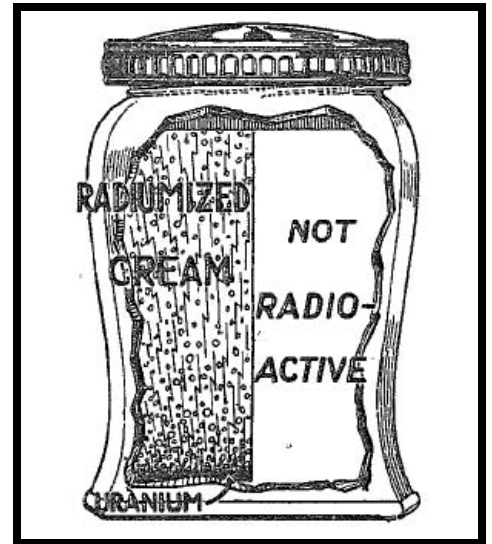
Radium Cone Company

Description

Jar to put your own creams in and have them infused with radon.

Manufacturer Claims

"Will make creams, ointments, tonics and soaps more beneficial."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM CONE

Product dates

1930s

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

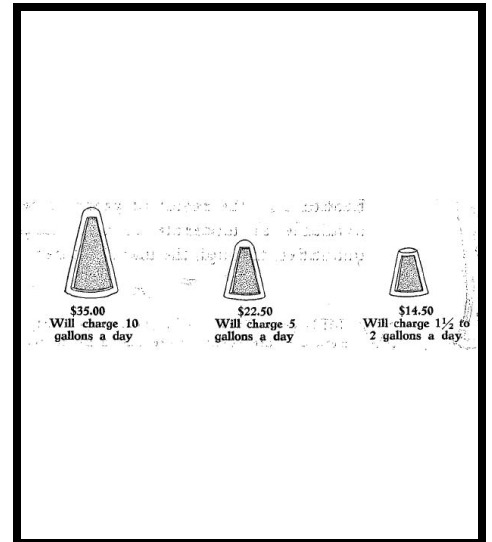
Radium Cone Co

Description

Cone to put into drinking water.

Manufacturer Claims

"Radioactivity will excite living cells and produce the phenomenon of reversion - giving back to the cells their lost vitality."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM DAS LEBEN

Product dates

1930s

Source Information

Known radium

Exposure Rate Information

9 mR/h

Other Names

Radium Life

Manufacturer

Sanitas Zwickau
Saxony, Germany

Description

Chrome-plated brass, 6" high on a 4.25" diameter base. The top has a hollow chamber with a screw-on cap. Chamber is 2"x1.5" and holds a 50 cc glass cup. Fastened inside the lid is a perforated metal cylinder containing ~10 μ Ci of radium.

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM EMANATION GENERATOR

Product dates

1910s-1940s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Radium Niton Generator

Manufacturer

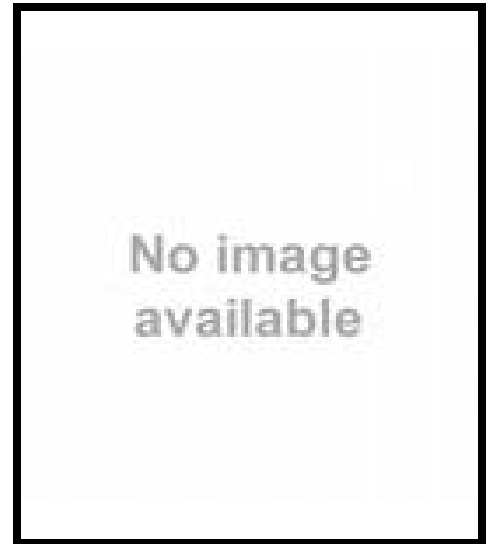
Denver Radium Service

Description

Add water to top portions of emanators. Water would filter through radium disk and upon standing radon would be in equilibrium with parent. Generating unit is a disk 3" diameter and 5" thick.

Manufacturer Claims

The manufacturer claims that the device is a cure for rheumatism, constipation, gout, anemia and neuralgia when used as bath, douche, local application, drunk or injected.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM EMANATIONS APPARATUS

Product dates

1920s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Unknown company, but very likely German since the brochure is written in German.

Description

9 1/2" tall and 4 1/2" wide at the base. The label indicates the strength of the device: 6000 ME. Water is added to the glass and the top of the unit is screwed onto the base. When this is done, a blue ceramic radium source projecting down from the inside of the top enters the water. Over time, the radon gas (radium emanation) produced by the decay of the radium enters and "charges" the water.

Manufacturer Claims

Untranslated German.



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/metalemanatorgerman.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADIUM EMANATOR

Product dates

1930s

Source Information

Likely uranium ore

Exposure Rate Information

20 uR/h @ 1'

Other Names

unknown

Manufacturer

Radium Life Inc.
Los Angeles, CA

Description

Five-plated, 10" tall device to be placed in water overnight before drinking.

Manufacturer Claims

unknown



Comments

Likely made of cement mixed with uranium ore.

References

<http://www.orau.org/ptp/collection/quackcures/radiumemanator.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADIUM EMANATOR FILTER JAR

Product dates

1930s

Source Information

Not known

Exposure Rate Information

$\mu\text{R/hr}$ @ contact, nothing above background @

Other Names

unknown

Manufacturer

Radium Emanator Filter Company, Inc.
North Haledon, NJ

Description

The item consisted of a two compartment jar made of natural uranium (vaseline) glass containing a radioactive source (insoluble radium salts per patent) in the lower compartment. The item measured ~21" high with a 9 1/2" diameter at the widest point.

Manufacturer Claims

Patent paraphrase: Charge water for professional purposes to be taken as prescribed by a physician.



Comments

Glowed greenish-yellow under UV light.

References

<http://www.orau.org/ptp/collection/quackcures/uraniumglassjar.htm>
Living with Radiation, The First Hundred Years. Kolb W. and Frame P., Syntec Inc., 2nd Ed.2002.

"QUACK" CURES - EMANATORS

Product Name:

RADIUM EMANATOR TYPE T

Product dates

unknown

Source Information

Likely uranium ore

Exposure Rate Information

Other Names

Radium Emanator

Manufacturer

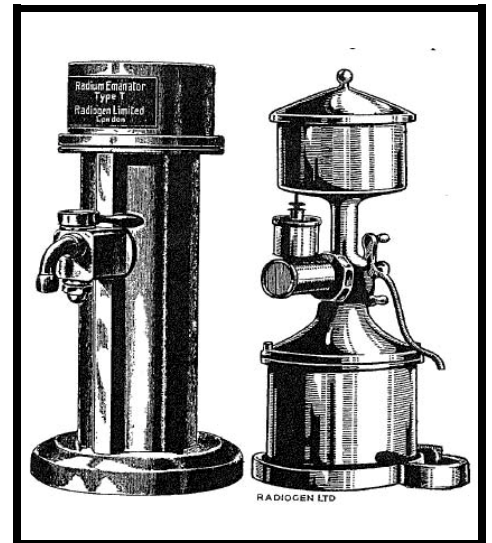
Radiogen Limited
London, England

Description

Radon emanators for drinking water and bath therapy.

Manufacturer Claims

"10,000 millimicrocuries per day is most efficacious for treatments."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM ORE BAR

Product dates

1930s

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Manufactured by:
Radium Ore Products

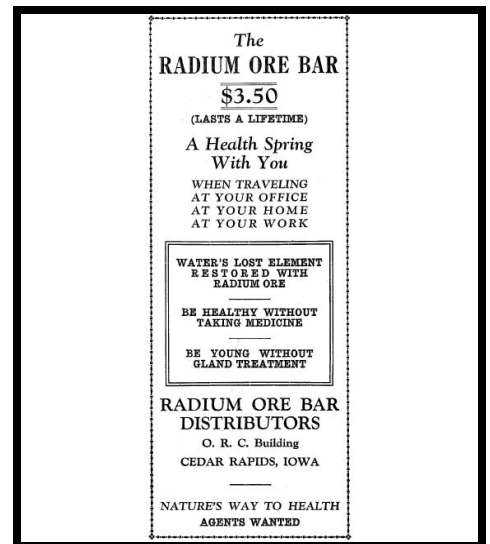
Distributed by:
Radium Ore Bar Distributors
O.R.C. Building
Cedar Rapids, Iowa

Description

Ore brick to put in drinking water.

Manufacturer Claims

Radium therapy is indicated for a wide variety of diseases, chiefly the following: rheumatism, gout, arthritis, neuritis, neuralgia, sciatica, facial paralysis, lumbago, menstrual pains, post-operative pains, inflammatory diseases such as that of the gall bladder, joints and pleurisy, general debility, arteriosclerosis, loss of vitality, senility, etc.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM SPA

Product dates

1925-1930

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

American Radium Products Corporation
Los Angeles, CA

Description

Ceramic water jar with spigot. Jar lined with "high grade uranium ore."

Manufacturer Claims

The manufacturer stated that the item was "...unconditionally guaranteed to make any water placed herein radioactive within 12 hours equal to in strength to the average of the most effective health springs of the world." The item will: increase respiratory quotient, stimulate enzymes, laxative, diuretic, increases metabolism, stimulates heart muscle, dissolve gouty deposits, increase kidney elimination, increase red blood corpuscles, decrease blood viscosity, sedate the nervous system, lower blood pressure, and increase general rejuvenation.



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/radiumspa.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADIUM TRINKKOREN

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

unknown

Description

Metal container for imparting radon to drinking water.

Manufacturer Claims

unknown



Comments

Limited information is available from an untranslated German magazine article.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM VITA EMANATOR

Product dates

1933-1954

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

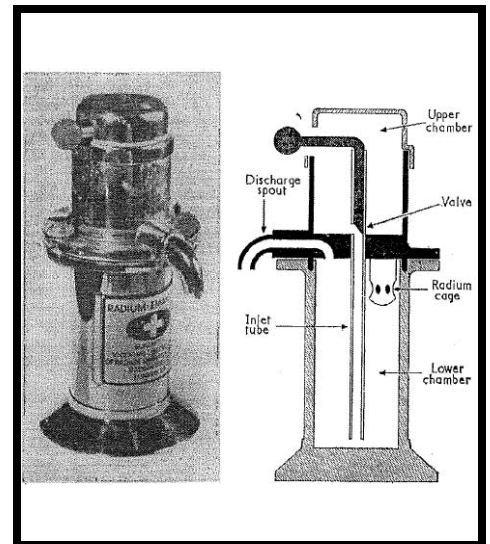
Radium Vita Limited

Description

Top chamber filled with water, fills the lower chamber which contains the radium cage where it dissolves radium pellets and charges the water with radon.

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM VITALIZER

Product dates

1920s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Radium Vitalizer Generator
Radioactive Vitalizer Generator to be used in
the Radium Vitalizer Jar or Vitalizer Jar
Also known as Radiomizer Vitalizer

Manufacturer

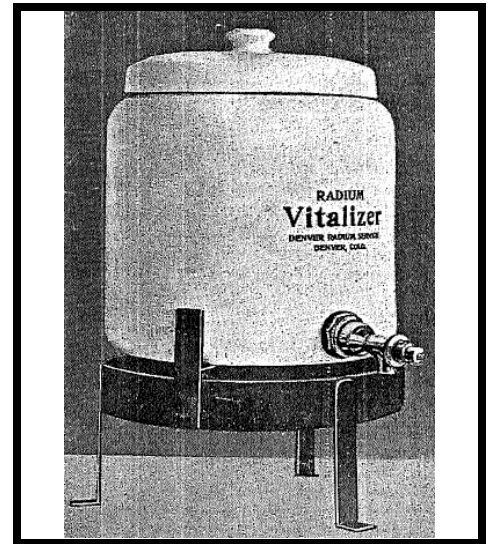
The Denver Radium Service

Description

The item consisted of a ceramic jar with a lid and spigot on a metal stand. Contained the "Generator" which is a ceramic cylinder with holes.

Manufacturer Claims

The manufacturer claimed that the item "causes an increase in the growth and number of healthy cells and vitalizes the body tissues, while unhealthy or morbid cells are broken down and eliminated. Promotes secretion and excretion of urine, reduces acidity, simulates activity of the stomach and intestines, has a tendency to lessen chronic constipation, excites vasomotor nerves; causes expansion of blood vessels, lowers high blood pressure, increases metabolism, has sedative effect upon nerves, relieves insomnia, has stimulating effect upon liver, causes increased activity of all organs of elimination, acts directly on the blood, as an oxidizing agent, causes increased activity of all processes of nutrition, has power to simulate the elimination of toxins or poisons, stimulates mental activity and increases sexual activity."



Comments

none

References

"The Radium Vitalizer: Radium-Gas Charged Health Water" brochure.

"QUACK" CURES - EMANATORS

Product Name:

RADIUM VITALIZER HEALTH FOUNT JAR

Product dates

1925-1930

Source Information

Likely radium

Exposure Rate Information

0.5 mR/hr

Other Names

unknown

Manufacturer

National Radium Company (aka
Corporation)
Chicago, IL

Description

Jar of uranium (vaseline) glass with aluminum base. Radium source was a blue ceramic cylinder with holes, about 7" high and placed inside the glass jar.

Manufacturer Claims

"Cures or benefits: anemia, ankylosis, anemia, apoplexy, arteriosclerosis, gout, arthritis, bronchitis, cystitis, eczema, diabetes, laryngitis, lumbago, metritis, myocarditis, nephritis, neuragia, neurasthenia, psoriasis, pyorrhea, rheumatism, and sciatica."



Comments

Same manufacturer as the Lifetime Radium Vitalizer Jar.

References

<http://www.orau.org/ptp/collection/quackcures/radiumvitalizeglass.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADIUM WATER JAR

Product dates

1920s-1930s

Source Information

Not radioactive

Exposure Rate Information

None

Other Names

unknown

Manufacturer

not available

Description

Cylindrical ceramic beige jar with blue rings and lettering.

Manufacturer Claims

not available



Comments

Not measurably radioactive, therefore it probably had some sort of emanation device to make the water inside radioactive. Another possibility is that it was simply used to hold water taken from a radioactive spring.

References

<http://www.orau.org/ptp/collection/quackcures/radiumwaterjarblue.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADIUM WATER JAR (2)

Product dates

Late 1920s, early 1930s

Source Information

Likely uranium ore

Exposure Rate Information

14 μ R/hr at one foot.

Other Names

unknown

Manufacturer

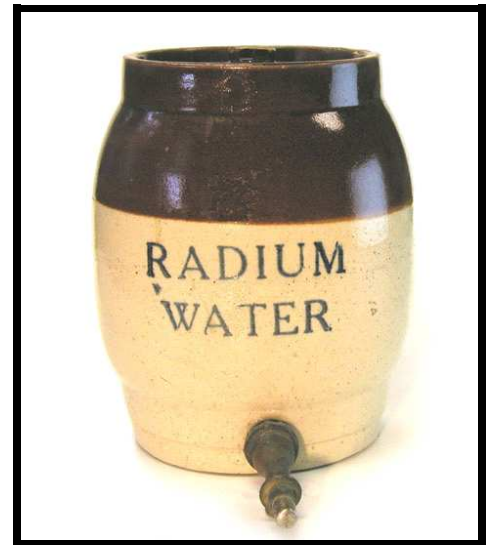
Radium Health Products of Canada
Hammer Radium Company of Denver CO

Description

Ceramic jar, brown and tan, with spigot and containing a circular disk that contains the actual radioactive material. Disc is labeled "Hammer Radium Activator".

Manufacturer Claims

not available



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/radiumwaterjarwtr.htm>

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM WATER JAR FROM BUNGALOW HOTEL

Product dates

1920s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Bungalow Hotel
Claremore, OK

Description

Ceramic Jug, brown and tan.

Manufacturer Claims

not available



Comments

An advertising gimmick that was probably sold in the hotel gift shop or kept in the hotel rooms and filled each day.

References

<http://www.orau.org/ptp/collection/quackcures/bungalow.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADIUMATOR

Product dates

1931

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

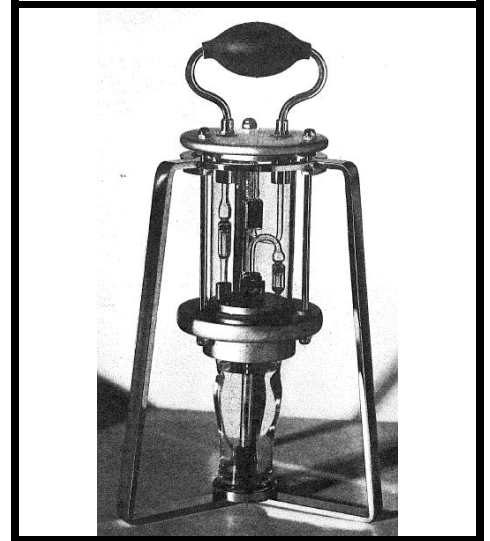
North American Radium Corp.
New York, NY

Description

Radon emanator for drinking water. Positioned on a tripod. Included a magnifying lens at the base of the chamber to view the radioactivity on a luminous material.

Manufacturer Claims

"The perpetual health spring."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUMCHEMA EMANATOR APPARATUS

Product dates

1920s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Radiumchema Company
St. Joachimstal
(Jachymov, now part of the Czech Republic)

Description

To use it, water was poured into the top. Over time, the radon gas produced by the decay of the device's internal radium source entered and charged the water.

Manufacturer Claims

unknown



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/radiumchemaemanator.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADIUMIZER VITALIZER

Product dates

1910s-1940s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Vitalizer Radiumizer
Vitalizer Water Container
Vitalizer Water Jar
Vitalizer Unit

Manufacturer

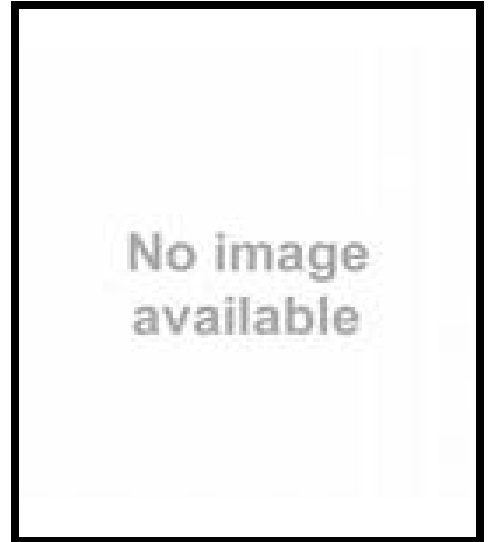
unknown

Description

White porcelain jar and unit. Water is exposed to the unit until radon has come to equilibrium and is to be drunk. Unit is removable so it can be used during travel.

Manufacturer Claims

The manufacturer claims that the device has "distinct therapeutic value."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADIUM-TRINKAPPARAT

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Deutsche Radium A.G.

Manufacturer

Radium-Institut
Berlin, Germany

Dr. Fritz Bahr & Co.
Unknown location

Description

Blue crystal goblet on a base with a latchable radium source to be placed inside.

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADON (EMANATION) EXTRACTOR

Product dates

unknown

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Radon Emanation Extractor

Manufacturer

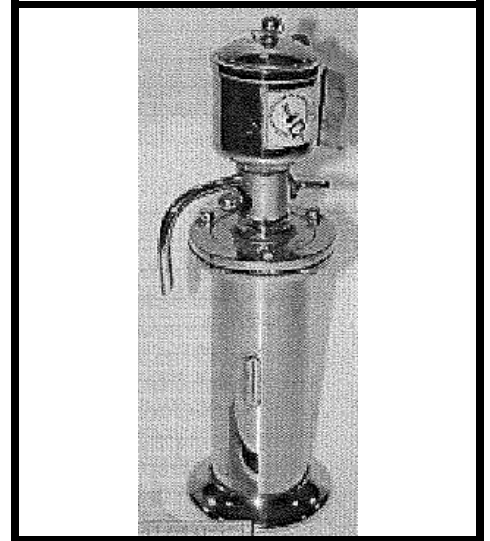
Laboratories d'Emanoradiumtherapie
Paris, France

Description

Metal container for imparting radon to drinking water.

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADON DEVICE

Product dates

1900s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

unknown

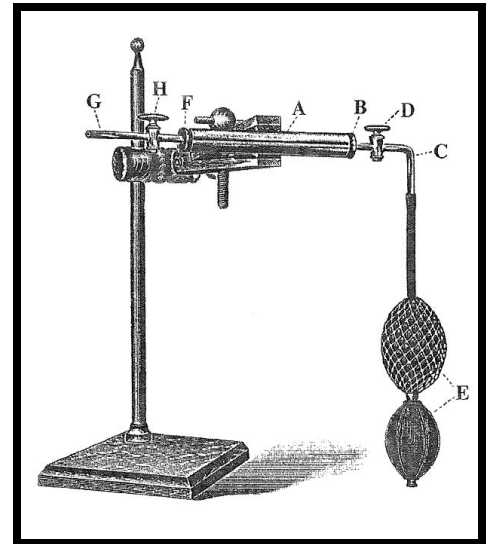
Description

Celluloid tube with an interior coating of radium connected to a rubber bulb with a glass tube.

Closing stopcocks allowed radon gas to build up inside the device. Squeezing the bulb delivered radon directly to the throat and lungs. Emanations could also be directed toward cancer on other parts of the body.

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADON EXTRACTOR

Product dates

1910s-1940s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

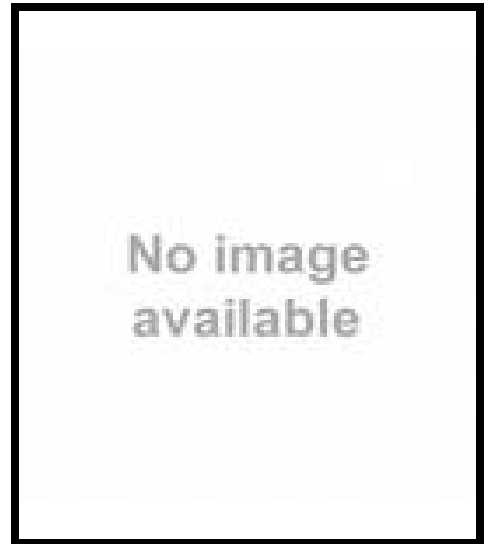
unknown

Description

Add water to top portions of emanators. Water would filter through radium disk and upon standing radon would be in equilibrium with parent. Water was to be consumed regularly. Cones and other shapes were to be immersed in water to impart radon to the water. Radon was to be ingested or inhaled.

Manufacturer Claims

The manufacturer claims that the device is to be used for "drinking radon water for good health."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADON-EMANATIONSAPPARAT

Product dates

unknown

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Unknown
Likely German based on the product
appearing in a German magazine article.

Description

Metal container for holding water with spigot.

Manufacturer Claims

unknown



Comments

Name is German, not a typographical error, from what appears to be a German magazine article.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RADONITE JAR

Product dates

unknown to 1932

Source Information

Known radium

Exposure Rate Information

~ 10 μ R/hr. @ 1' from side of jar

Other Names

unknown

Manufacturer

not available

Description

Jar with bottom spigot. Jar contained Ra-226 as a tan-colored granular material kept inside a cylindrical container in bottom half of the jar. Allowed to stand, ordinary drinking water would be infused with Rn-222.

Manufacturer Claims

not available



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/radonitejar.htm>

"QUACK" CURES - EMANATORS

Product Name:

RADONIZER

Product dates

circa 1929

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Manufacturer

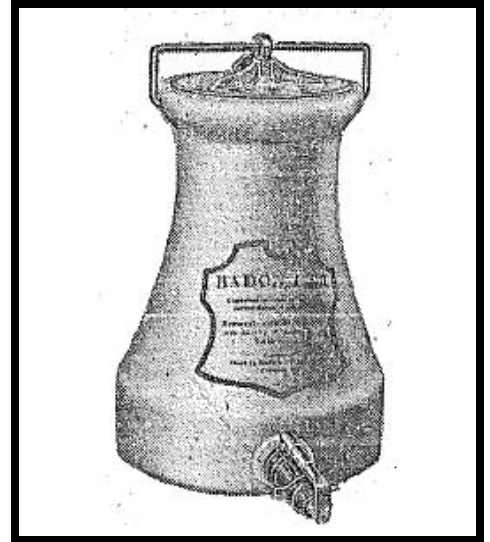
Chicago Radium Products Co.
1217 Oakton Street
Evanston, IL

Description

none

Manufacturer Claims

"Stimulates the growth of healthy cells while morbid cells decay. Increases the number of red blood cells. Stimulates the activity of the digestive tract. Increases metabolism. Increases the amount of urine excreted with a relatively higher uric acid content. Stimulates the elimination of toxins. Hinders or stops the development of microbes. Has a tendency to normalize the blood pressure. Stimulates the activity of the liver. Acts as a sedative upon the nervous system. Increases sexual activity."



Comments

None

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

RAYBLENDA

Product dates

1930s

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

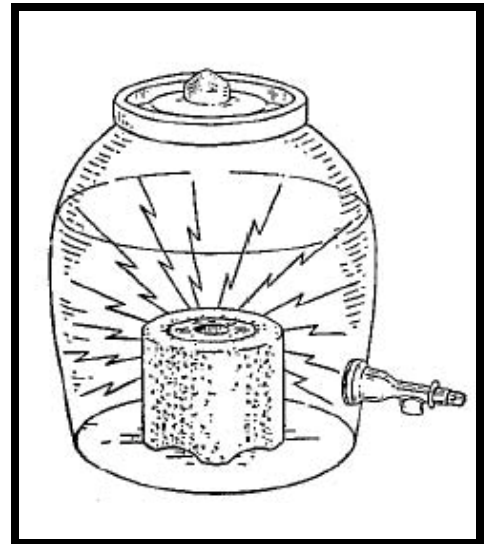
Rayblenda Distributing Company

Description

Ceramic jar with "Rayblenda Kone" that sits inside the jar and charges the water with radioactivity.

Manufacturer Claims

"The item drives out poisons from the system. Radio-activity is known to be one of the most important health-building qualities in the most famous health springs."



Comments

none

References

"Rayblenda: Radio-Active Water Outfit" brochure distributed by Rayblenda Distributing Co.

"QUACK" CURES - EMANATORS

Product Name:

RAYODE

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

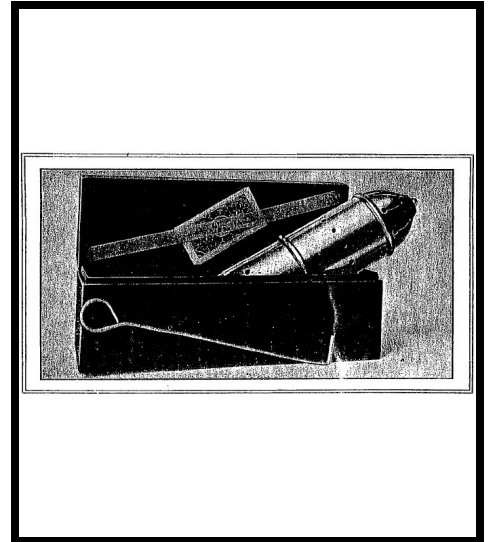
Colorado Radium Products Co.

Description

Metal tube with holes in it containing ore or radium for charging drinking water.

Manufacturer Claims

"Tasteless but a powerful eliminant of uric acid and waste products. Clears the blood and kidneys."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

REVIGATOR

Product dates

1920s-1930s

Source Information

Known radium

Exposure Rate Information

Varies based on model, see comments.

Other Names

unknown

Manufacturer

Radium Ore Revigator Company
San Francisco, CA

Description

The jar was lined with radium-containing ore.

Manufacturer Claims

The manufacturer claims that the item revitalizes or revigorates drinking water. It was used to treat and "cure": anemia, asthma, stiff joints, hardening of arteries and high blood pressure, arthritis, apoplexy, bronchitis, inflammation of bladder, diabetes, eczema, weakness following the flu and other diseases, inflammation of stomach and bowels, sinus inflammation, gout, laryngitis, lumbago, inflammation of uterus, inflammation of spinal cord, sick headaches, inflammation of heart muscles, bright's disease, neuralgia and neuritis, nervous prostration, peritonitis, polyarthritis, pyorrhoea, skin diseases, rheumatism, hay fever, sciatica, synovitis, locomotor ataxia, and old age with symptoms of disease.



Comments

The early revigator was a straight-sided beige cylindrical ceramic jar with an exposure rate of 15 $\mu\text{R/hr}$ above background at one foot. The most common revigator was the one pictured. The jar is shaped like a cooling tower and is ceramic and beige in color as well. A less common version looks like the cooling tower shaped jar but it is a mottled blue color with an exposure rate of 35 $\mu\text{R/hr}$ above background at one foot. The last of the Revigators is cooling tower shaped but is white ceramic and has legs incorporated into the body of the jar with an exposure rate of 80 $\mu\text{R/hr}$ at one foot from the base. One other version is encased in metal which made it portable. Its exposure rate was 16-18 $\mu\text{R/hr}$ above background at one foot.

References

<http://www.orau.org/ptp/collection/quackcures/revigatorstraight.htm>
<http://www.orau.org/ptp/collection/quackcures/revigat.htm>
<http://www.orau.org/ptp/collection/quackcures/revig25.htm>
<http://www.orau.org/ptp/collection/quackcures/revig30.htm>
<http://www.orau.org/ptp/collection/quackcures/revigatormetal.htm>
"Restoring Waters Lost Element" distributed by The Radium Ore Revigator Co.

"QUACK" CURES - EMANATORS

Product Name:

STANDARD RADIUM EMANATOR

Product dates

1929

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

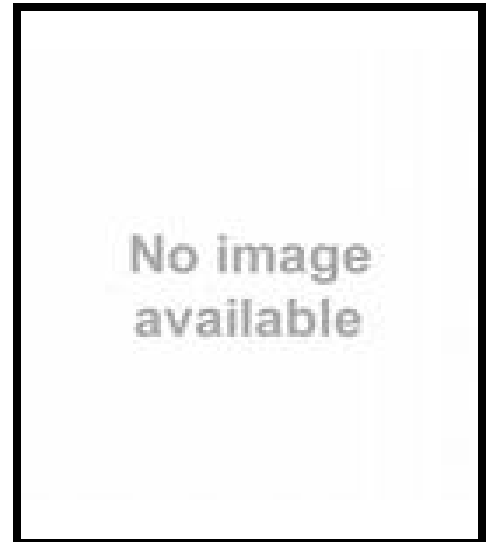
Standard Radium Corp of America

Description

Wall mount radon water apparatus.

Manufacturer Claims

"Drinking of 5-6 glasses of radioactive water per day will stimulate to normality the functioning of all the important bodily processes."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

STRIZ RADIUM ROCK

Product dates

1930s

Source Information

Not known

Exposure Rate Information

20 uR/h @ 1'

Other Names

unknown

Manufacturer

unknown

Description

Circular, cup-shaped ore or radium in cement matrix.

Manufacturer Claims

unknown



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/strizradiumrock.htm>

"QUACK" CURES - EMANATORS

Product Name:

SURE CURE RADIUM BOTTLE

Product dates

Late 1920s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

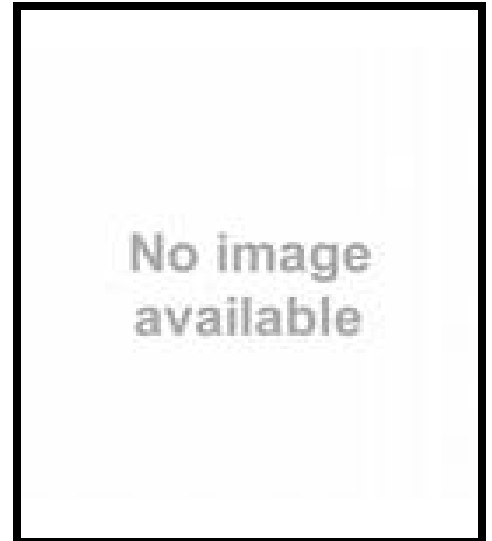
"Sure Cure" Container Co.
552 W Adams St.
Chicago, IL

Description

Half-gallon bottle coated with "radium ore" for the emanation of radon.

Manufacturer Claims

The manufacturer claims that this product "acts at the source of all physical trouble" with a "marked benefit" in "practically every case."



Comments

Various carrying and traveling cases were available.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

THOMAS CONE

Product dates

1930s

Source Information

Known uranium ore

Exposure Rate Information

30 uR/h @ 1'

Other Names

Thomas Radioactive Cone

Manufacturer

R.W. Thomas

Description

Cone to be placed in 4 gallons of water for drinking.

Manufacturer Claims

"Health, Wellness and Happiness - having these you have all and the greatest of these is health for without health, wealth is valueless and happiness is impossible."



Comments

none

References

<http://www.orau.org/ptp/collection/quackcures/thomascone.htm>

"QUACK" CURES - EMANATORS

Product Name:

THOMAS RADIUM C.R. JAR

Product dates

1920s

Source Information

Known uranium ore

Exposure Rate Information

20 μ R/hr above background at one foot.

Other Names

unknown

Manufacturer

unknown

Description

Light tan ceramic crock, interior coated with porous yellowish uranium ore.

Manufacturer Claims

not available



Comments

The most common version is cylindrical, the less common looks like a ceramic barrel. It was intended to be filled with water to allow the water to become charged with radon. It seems to be the forerunner of the Revigator, holding about 10 quarts of water and having a spigot at the bottom.

References

<http://www.orau.org/ptp/collection/quackcures/thomasradiumcr.htm>;
"Living With Radiation" p. 46

"QUACK" CURES - EMANATORS

Product Name:

TORBENA JAR

Product dates

1930s-1940s

Source Information

Likely uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Torbena Products Co., Inc.

Description

Ceramic jar.

Manufacturer Claims

The manufacturer claims that the item was used to treat anemia, arteriosclerosis, high blood pressure, arthritis, gout, rheumatism, muscular rheumatism, neuralgia, neuritis, sciatica, constipation, indigestion, and sexual decline.



Comments

The source, consisting of "torbernite ore of radium" was separated from the jar. Five pound sacks containing chunks of ore were sold with the jars.

References

<http://www.orau.org/ptp/collection/quackcures/torbena.htm>;
"TORBENA Radio-Active Water" brochure by Torbena Products Co., Inc.

"QUACK" CURES - EMANATORS

Product Name:

TORBERNITE RADIUM ROCK

Product dates

unknown

Source Information

Known uranium ore

Exposure Rate Information

unknown

Other Names

Torbernite Ore Rock
Radium Rock

Manufacturer

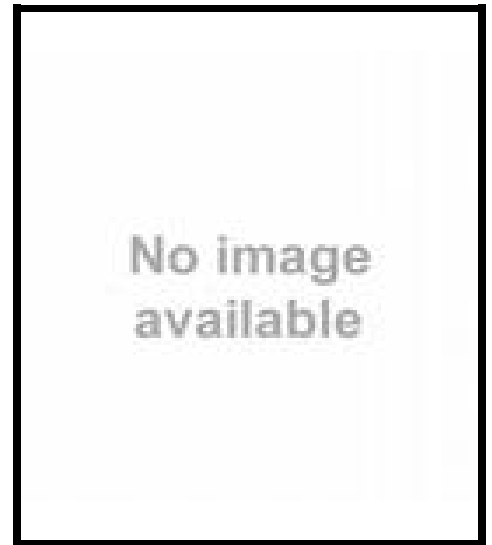
Howell Drug Co.
Agee Drug Co.

Description

Rock/brick to put in water for drinking.

Manufacturer Claims

"For your health's sake."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

VIGORADIUM

Product dates

1927

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

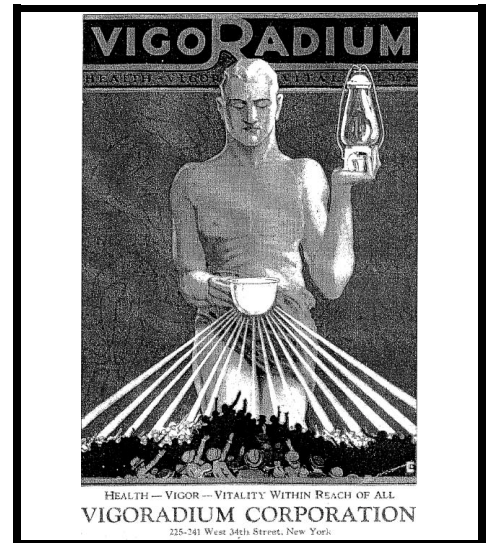
Vigoradium Corp
New York, NY

Description

Glass emanator for drinking water. Made in home and office varieties.

Manufacturer Claims

"Those who think should always drink - Vigoradium."



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

**YASHUHIRO SHIMIZU MINERAL
LIQUID PRODUCING DEVICE**

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

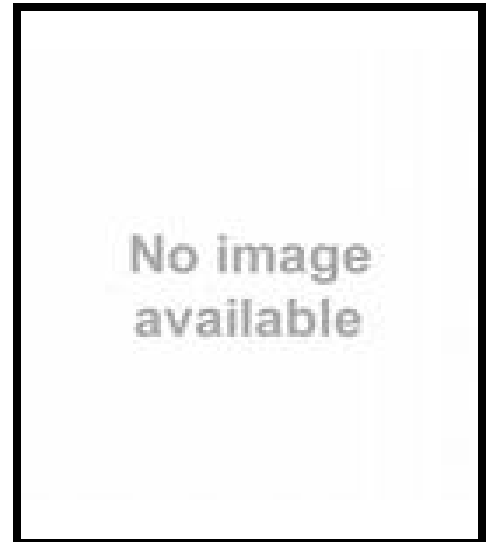
unknown

Description

none

Manufacturer Claims

unknown



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

"QUACK" CURES - EMANATORS

Product Name:

ZIMMER RADON GENERATOR

Product dates

1940s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Zimmer Laboratories
Los Angeles, CA

Description

Bullet-shaped 3" high ceramic with 2-3/4" base containing refined radium. To be put in drinking water.

Manufacturer Claims

The manufacturer states that the device is "not a cure-all but does remarkable things!"



Comments

A specific exposure rate is unknown, but the reference states that the exposure rate is likely too high for museum display.

References

<http://www.orau.org/ptp/collection/quackcures/zimmeremanator.htm>

AGRICULTURAL / BUILDING / INDUSTRIAL MATERIALS

Product Name:

ALPHATRON VACUUM GAUGE

Product dates

1960s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

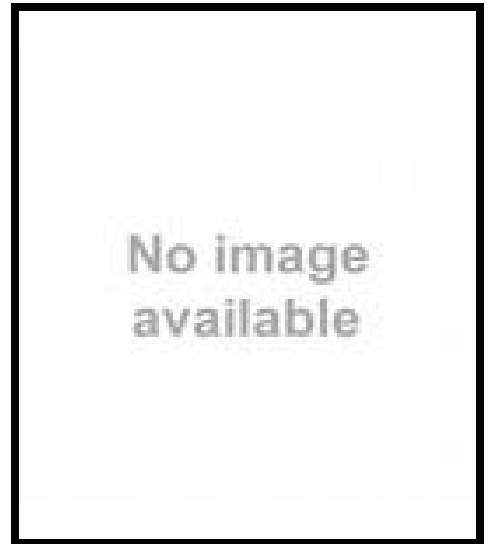
NRC Equipment Corporation
Subsidiary of National Research Corporation
160 Charlemont St.
Newton Highlands 61, MA.

Description

The item is cylindrical in shape and approximately 7 in long and 2.5 inches in diameter.

Manufacturer Claims

not available



Comments

Label claims the gauge contains 500 μCi .

Label indicates radiation levels of "0.05 rad - 8 hrs at 1 ft," possibly meaning 0.05 rad per 8 hours of exposure time.

References

<http://radlab.nl/radsafe/archives/0201/msg00092.html>

AGRICULTURAL / BUILDING / INDUSTRIAL MATERIALS

Product Name:

ELECTRON TUBE

Product dates

Early 1940s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Voltage regulator tube
Spark-gap tube
Voltage sensitive switching tube
Glow lamp
Transmit-receive tube
Indicator lamp
Vacuum Tube

Manufacturer

Western Electric.

Description

Glass envelope, fill gas as a radioactive source, an anode, and an unheated (cold) cathode.

Manufacturer Claims

not available

Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders



AGRICULTURAL / BUILDING / INDUSTRIAL MATERIALS

Product Name:

RADIUM DYE COMPANY BOTTLE

Product dates

1910s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Radium Dye Company - Kansas City MO

Description

Glass bottle with stopper.
Approximately 2 1/2" x 1 1/2" x 6"

Manufacturer Claims

not available



Comments

Manufacturer produced Radium Soap in a metal can and Radium Gasoline Settler in a box. Radium liquid wax made for floor cleaning also produced. Unknown what was sold in a bottle.

References

<http://www.orau.org/ptp/collection/brandnames/radiumdye.htm>

AGRICULTURAL / BUILDING / INDUSTRIAL MATERIALS

Product Name:

RADIUM FERTILIZER

Product dates

1910s-1950s

Source Information

Likely radium

Exposure Rate Information

unknown

Other Names

Radium Plant Food

Manufacturer

Radium Fertilizer Company
Pittsburgh, PA

Description

5 lb can.

Manufacturer Claims

The manufacturer claimed that vegetables increased in size by 39%, flowers bloomed more fully, lawns thrived, and shrubbery flourished.



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

AGRICULTURAL / BUILDING / INDUSTRIAL MATERIALS

Product Name:

SEXTANT

Product dates

1940s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Navy Sextant
Navigation Sextant
Aircraft Sextant
Marine Sextant

Manufacturer

used in military aircraft

Description

Measures the altitude of a celestial object above the horizon even when the horizon cannot be seen.

Manufacturer Claims

Illumination of bubble horizon.



Comments

none

References

<http://celestaire.com/pdf/AircraftSextants.pdf>
<http://en.wikipedia.org/wiki/Sextant>

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

CONSUMER PRODUCTS / FOODS

Product Name:

ENDLESS REFRIGERATOR/FREEZER DEODORIZER

Product dates

1983-1985

Source Information

Other radioactive

Exposure Rate Information

Approx. 2 μ R/hr above background @ 1'

Other Names

unknown

Manufacturer

Manufactured in Japan

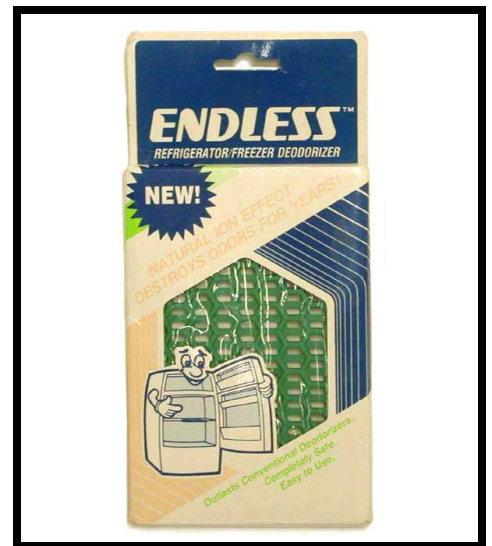
American Distributor:
First International Corp.
PO Box 12381
Shawnee Mission, KS 66212

Description

The item was in the shape of a green plastic "honeycomb" containing Th-232 in monazite sand as the source of radiation. The item had dimensions of 4" x 6" x 3/16".

Manufacturer Claims

This item was claimed to destroy odors for years by emitting natural negative ions which neutralize odor-causing positive ions inside the refrigerator.



Comments

Sales of this item were terminated when NRC Region IV notified the Kansas distributor of a violation of 10CFR40.13 which limits source material to 0.05% by weight.

References

10 CFR Part 40, "Domestic Licensing of Source Material", U.S. Nuclear Regulatory Commission.
10CFR40.13, "Unimportant quantities of source material", U.S. Nuclear Regulatory Commission.

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM BEER

Product dates

1930s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Terra Haute Brewing Co.

Description

Beer in brown bottle.

Manufacturer Claims

not available



Comments

No representation to actually be radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/beer.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM BOOT POLISH

Product dates

1920s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

Black Boot Radium Waterproof Polish

Manufacturer

Radium Polishes Ltd -
Broadheath (near Manchester), England

Description

2 1/8" x 5/8" can of solid shoe polish.

Manufacturer Claims

Waterproof



Comments

No representation is made by the manufacturer that the product is actually radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/radiumbootpolish.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM BUTTER

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Brand Creamery Butter

Manufacturer

The Nucla Creamery Co. - Nucla, CO

Description

One pound box of butter.

Manufacturer Claims

We solicit your close inspection and guarantee Radium Brand Butter to please the most delicate appetite.



Comments

No claim to be radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/radiumbutter.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM CIGARETTES

Product dates

1910s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Brand Cigarettes

Manufacturer

A. Batschari Tobacco Co. (ABC) -
Baden, Germany

Description

Large container (5 1/2" x 4 1/2" x 1 1/2") 100 cigarettes
Small container (4 1/2" x 3 3/4" x 1 1/4") 50 cigarettes

Manufacturer Claims

not available



Comments

No representation to be radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/radiumcigarettes.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM CIGARS

Product dates

1920s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

Radium Brand Cigars

Manufacturer

Polus Tobacco Co. -
Balerna, Switzerland

Description

Metal container to contain 50 cigars.

Manufacturer Claims

not available

Comments

No representation to actually be radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/radiumcigars.htm>



CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM CLEANSER

Product dates

1910s-1930s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Polish

Manufacturer

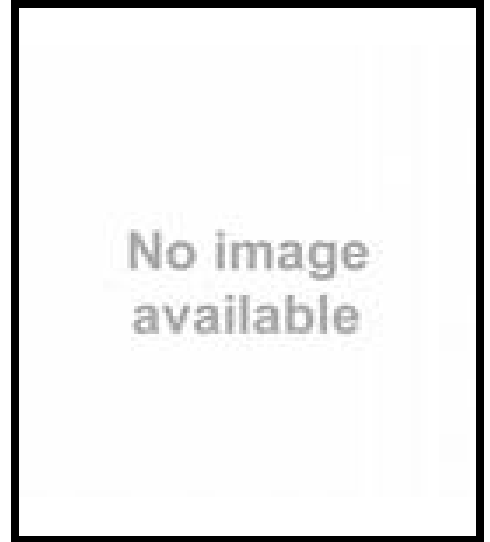
Various: Unknown
Radium Ltd - Broadheath Manchester
England

Description

Metal cans containing cleansers/metal polish.

Manufacturer Claims

Nothing like it for cleaning. Paint, varnish, baths and lavatories, windows, linoleum and carpets, furniture, marble, metal work, tiles, upholstery, deodorizing sick rooms, and 100 other uses. No poisons. Absolutely harmless. Radium Cleanser purifies the atmosphere, keeps your home free from flies and insect pests.



Comments

No representation to actually be radioactive.

References

Living with Radiation pg. 163

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM CLIPPER

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Otto Roth Inc. - Newark, NJ

Description

Hair clippers in box.

Manufacturer Claims

not available



Comments

No representation to actually be radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/radiumclippers.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM CONDOMS

Product dates

1920s-1940s

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Brand Male Pouches
Radium Nutex

Manufacturer

Nutex Co. - Philadelphia, PA

Description

Box of condoms.

Manufacturer Claims

not available



Comments

No representation to be radioactive. Representative picture shown.

References

<http://www.orau.org/ptp/collection/brandnames/radium-condoms.htm>
<http://www.orau.org/ptp/collection/brandnames/radiumpouche.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM ENAMEL

Product dates

1870-1945

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Stove & Iron Enamel

Manufacturer

J.L. Prescott Co. - New York, NY

Description

Small can of paint - 3 3/4" x 2 1/2".

Manufacturer Claims

Prevents rust and preserves and beautifies all metal surfaces.



Comments

Product makes no claim to actually contain radioactive material.

References

<http://www.orau.org/ptp/collection/brandnames/radiumenamel.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM LEATHER DYE

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

unknown

Description

leather dye in small bottle

Manufacturer Claims

Dyes shoes and leather goods



Comments

Found in Sheffield UK. See photo at reference.

References

http://www.flickr.com/photos/ombre_chimique/2531874728/

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM LUMP GLOSS STARCH

Product dates

1920s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

Home Brand Radium Lump Gloss Starch

Manufacturer

Griggs, Cooper & Co. - St. Paul MN

Description

One pound box of laundry starch.

Manufacturer Claims

The finest quality for laundry purpose.



Comments

No representation to be radioactive

References

<http://www.orau.org/ptp/collection/brandnames/radiumstarch.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM PLAYING CARDS

Product dates

1920s

Source Information

Not radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Standard Playing Card Co. - Chicago, IL

Description

Deck of playing cards in box.

Manufacturer Claims

Liberty Bell playing cards may be had in Regular, Pinochle or Narrow Whist size decks with either Radium or Linen Finish.



Comments

No representation to actually be radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/radiumcards.htm>

CONSUMER PRODUCTS / FOODS

Product Name:

RADIUM RAZOR BLADE

Product dates

1925-1940

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Radium Safety Razor Blade

Manufacturer

unknown

Description

Razor blade for shaving.

Manufacturer Claims

not available



Comments

No representation to actually be radioactive.

References

<http://www.orau.org/ptp/collection/brandnames/radiumrazorblade.htm>

IRRADIATION SOURCES

Product Name:

BETA RAY CAPSULE

Product dates

1950s-1967

Source Information

Known radium

Exposure Rate Information

See comments

Other Names

unknown

Manufacturer

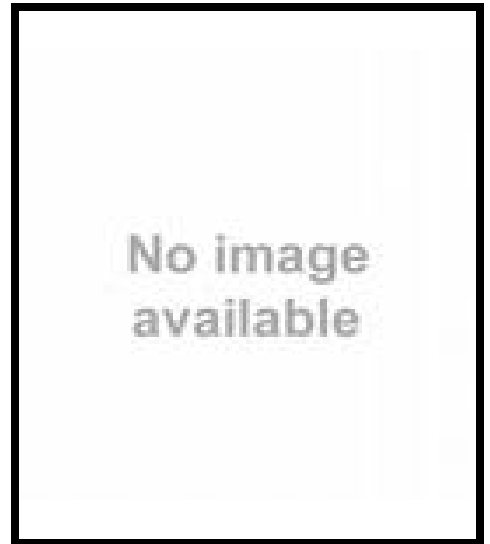
Unknown

Description

The source was contained in a gelatin-like capsule of approximately No. 0 size, similar to a pharmaceutical capsule. It was apparently absorbed onto a fibrous material within the capsule shell. Was offered in a variety of colors including orange with white, and all blue.

Manufacturer Claims

Ion source for demonstrating ionization of air for use with the Cenco's Zeleny Electroscop.



Comments

Operating instructions came packaged with the Beta Ray Capsule suggesting that the sources should always be kept in a container marked "Radioactive" and that care should be used to prevent puncture. No instructions were provided in case the source was broken or for ultimate disposal.

Exposure Rate Information:

Contact with capsule surface ~7 rem/hr (largely due to beta-emitting progeny of Ra-226)

~50 mrem/hr (beta radiation and bremsstrahlung) through 0.5 mm Al absorber

~0.35 mrem/hr (bremsstrahlung) through 3.5 mm Al absorber

No labels or markings on capsule or outer container (box) stating that contents are radioactive, the name of the radioisotope, activity of the capsule or providing the standard radiation warning symbol.

References

Advisory Notice 10/22/71 - Radioactive Materials Branch, Bureau of Radiological Health

IRRADIATION SOURCES

Product Name:

CALIBRATION AND CHECK SOURCES

Product dates

various

Source Information

Known radium

Exposure Rate Information

Dependent upon activity and nuclide, etc.

Other Names

unknown

Manufacturer

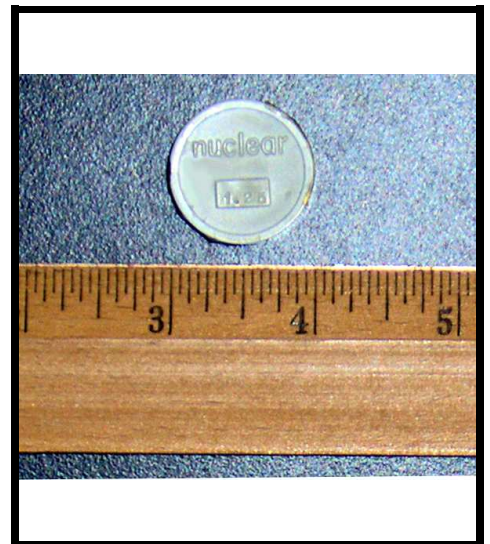
Various:
United States Radium Corporation.
Amersham International Plc.
Nuclear Chicago Corporation.
Gulf Nuclear, Inc.
SIE, Inc.
Isotope Products Laboratories
Searle Analytic, Inc.
Cardinal Health LLC (formerly Victoreen)
3M Corp.
US Nuclear Corp.
Radiochemical Center
Texas Nuclear Products
TN Technologies, Inc.

Description

Check, sealed, calibration sources.

Manufacturer Claims

not available



Comments

Representative picture shown.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

IRRADIATION SOURCES

Product Name:

DENSITY, MOISTURE AND THICKNESS GAUGES

Product dates

1950s - current

Source Information

Known radium

Exposure Rate Information

Dependent upon activity and nuclide.

Other Names

Nuclear Gauges

Manufacturer

Nuclear Chicago Corporation.
Campbell Pacific Nuclear Corporation.
Troxler
Alnor Instrument Company.
Amersham Corporation
Seaman Nuclear Corporation.
ABB Industrial Systems (formerly Industrial Nucleonics Corp).
US Radium Corporation
United Engineers - Automation Division of Black, Sivalls and Bryson, Inc.
Radium Chemical Company

Description

Hermetically sealed sources in stainless steel. Double welded in castings. Welds are made with silver solder having a melting point not less than 635 degrees C (1175 degrees F). The source is welded into a holder which is then welded into the gauge. The source may be open, shuttered and collimated in any configuration. Source housing may weigh up to 180 lb.

Manufacturer Claims

The item is used for the inspection of tube, pipe, and vessel walls. Measurements made by absorption, backscatter, and the density and dew point of gases at different pressures. Level indication in tanks and reservoirs.



Comments

Representative picture of Troxler 3440. Many other styles exist.

References

Living with Radiation pg. 81.
Registry of Radioactive Sealed Sources and Devices - Safety Evaluation of Device.

IRRADIATION SOURCES

Product Name:

GAMMA GAUGES

Product dates

various

Source Information

Known radium

Exposure Rate Information

Dependent upon Ra-226 activity level.

Other Names

unknown

Manufacturer

Isotope Products Laboratories
Stock Equipment Company
Radium Chemical Company
Adaptive Technologies (ATI)

Description

The source is doubly encapsulated and constructed of various grades of stainless steel. The capsule consists of a hexagonal portion that tapers to a cylindrical body containing the "active element." Models vary in actual dimensional size, active element, and inner capsule construction. Chemical forms of the active elements are chlorides and nitrates in ceramic, oxides in gold or aluminum, or metal plated onto substrate. Radium sources can also be in the form of sintered radium sulfate (RaSO₄). Gauges can have beryllium windows.

Manufacturer Claims

The gamma sources are used as gauging and calibration devices.



Comments

Representative photo chosen.

References

Registry of Radioactive Sealed Sources and Devices - Safety Evaluation of Sealed Source, California Department of Health Services, February 20, 2001 and June 21, 1995.

Registry of Radioactive Sealed Sources and Devices - Safety Evaluation of Sealed Source, Florida Department of Health, Bureau of Radiation Control, July 31, 2003.

IRRADIATION SOURCES

Product Name:

GAS CHROMATOGRAPH ION GENERATOR

Product dates

1955-unknown

Source Information

Known radium

Exposure Rate Information

See "Comments"

Other Names

unknown

Manufacturer

As of 1970:

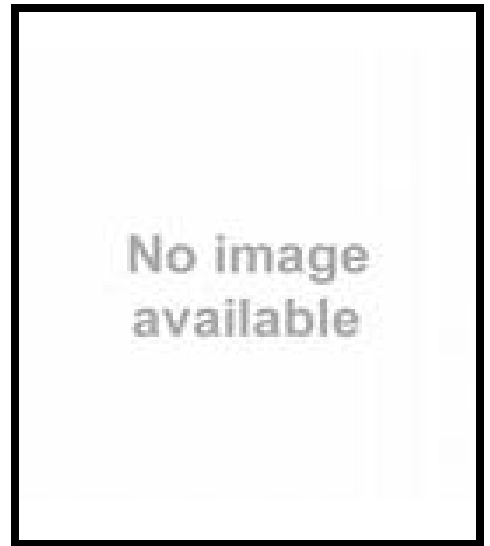
Advanced Technology Inc.
Barber-Coleman Company
Packard Instrument Company, Inc.
Glowall Corp (ceased distribution in 1970)
US Radium Corporation.

Description

Ra-226 foil contains 0.05-0.1 mCi as radium sulfate (RaSO₄) in gold foil.

Manufacturer Claims

The activity of the source is selected to provide an ionization current of 10E-7 to 10E-9 amperes in the detector cell.



Comments

Exposure Rate Information:

Cabinet surface: <2 mR/hr (56 μ Ci Ra-226)

1" from detector cell: 8-10 mR/hr (closed cell)

1" from detector cell: 20-25 mR/hr (open cell)

Newer systems use Ni-63 instead of radium.

References

Pettigrew, George L., and Jerome A. Halperin, The Use of Radioactive Materials in Gas Chromatography, US Department of Health, Education, and Welfare (Public Health Service), October 1970.

IRRADIATION SOURCES

Product Name:

INDUSTRIAL RADIOGRAPHY SOURCES

Product dates

1930s-unknown

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Weld X-ray Source

Manufacturer

not available

Description

In the 1930s-1940s, these sources (sometimes referred to as a "plumbbob") consisted of Ra-226. The source was held at the height of the weld with photographic film placed on the opposite side. The developed image was examined to determine weld integrity.

Manufacturer Claims

These sources are used for non-destructive examination of welds.



Comments

Post-WWII, radium was replaced by other radionuclides (Ir-192, Co-60) in a pig-tail configuration.

References

<http://www.orau.org/ptp/collection/Sources/radiumradiog.htm>

IRRADIATION SOURCES

Product Name:

LIQUID SCINTILLATION COUNTER SOURCE

Product dates

1950s-unknown

Source Information

Known radium

Exposure Rate Information

Dependent upon Ra-226 activity level.

Other Names

LSC External Standard Source

Manufacturer

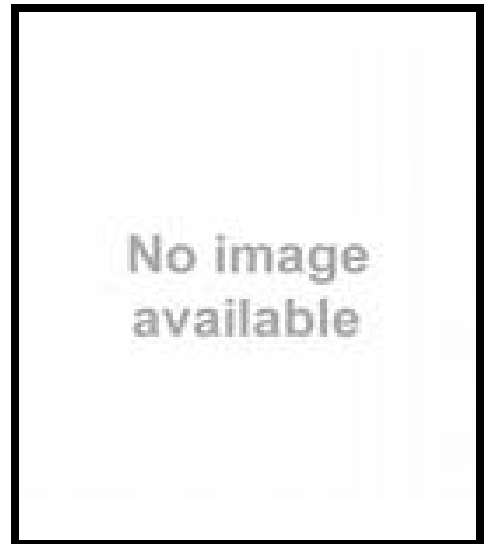
LKB Wallac OY, Finland
LKB Instruments Inc. - Gaithersburg, MD.
Packard Instrument Company, Inc. -
Downers Grove, IL.
Amersham/Seale Co.
Nuclear Chicago Corp - Des Plaines, IL.
Others mfgs.

Description

The item consisted of a calibration check source for LSC instrumentation. Based on cited references, activity levels ranged from 4-20 microcuries.

Manufacturer Claims

not available



Comments

none

References

Registry of Radioactive Sealed Sources and Devices - Safety Evaluation of Sealed Source, Maryland State Department of Health and Mental Hygiene, June 13, 1989.

Registry of Radioactive Sealed Sources and Devices - Safety Evaluation of Sealed Source, Illinois Department of Nuclear Safety, August 24, 1978.

IRRADIATION SOURCES

Product Name:

NEEDLES

Product dates

1940s-1950s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

American-Type Platinum-Iridium Needles
European-Type Platinum-Iridium Needles

Manufacturer

Canadian Radium & Uranium Corporation
Radium Chemical Company

Description

American-Type Needles - radium is filled directly into the needle with no inner cell.

Filtration: 0.5 mm. Quantities: 0.6 to 12.5 mg. Needle Length: 11 to 20.5 mm.

Sizes ranged from 1 to 10 mg of radium with active lengths of 3, 7 and 12 mm.

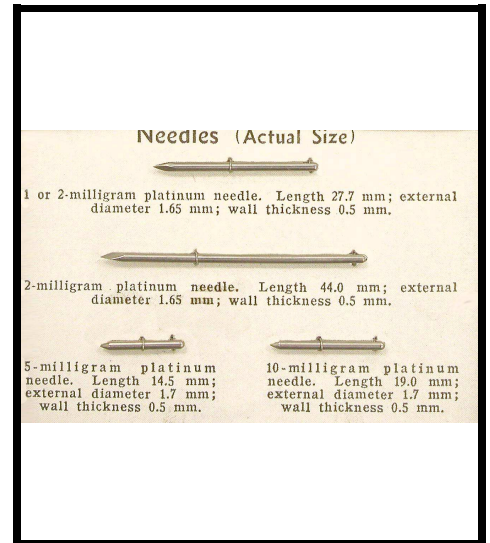
European-Type Needles - radium contained in platinum-iridium cells, enclosed in needles.

Filtration: 0.5 mm. Quantities: 1 to 3 mg. Needle Length: 23.5 to 56.5 mm.

Sizes ranged from 1 to 3 mg of radium with active lengths of 15, 30 and 45 mm.

Manufacturer Claims

not available



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

IRRADIATION SOURCES

Product Name:

SAFETY CONTROL WRIST BAND

Product dates

1950s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Power Press Safety Control
Safety Control Bands

Manufacturer

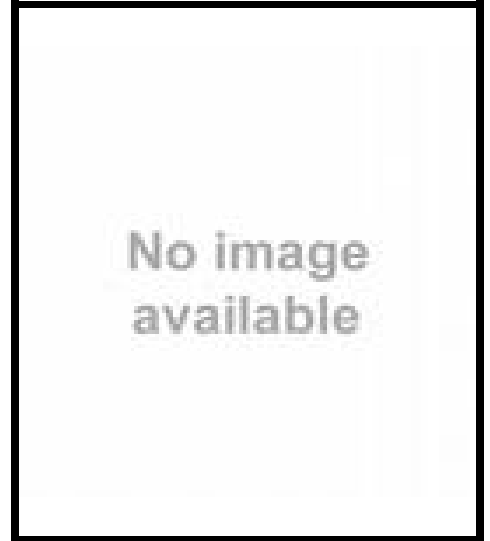
not available

Description

Leather strap with lead backing under four radium buttons containing 16 µg Ra each. The top of the buttons are covered with leather and are sewn in place.

Manufacturer Claims

A detector shuts off industrial machinery when radiation, from operators' wristband, is detected.



Comments

Later models replaced Ra with Sr/Y-90

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

LUMINESCENT DEVICES

Product Name:

GLOW-IN-THE-DARK COSTUMES

Product dates

unknown-1940s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

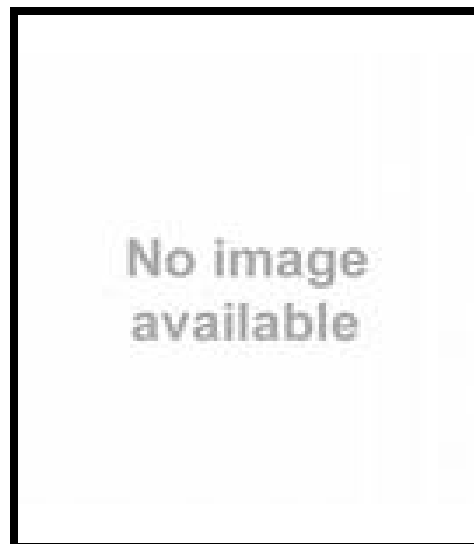
not available

Description

Glow-in-the-dark costumes for use in the theater.

Manufacturer Claims

not available



Comments

none

References

http://query.nytimes.com/mem/archive-free/pdf?_r=1&res=9D06E5D7103DE633A25757C1A9629C946597D6CF&oref=slogin.

LUMINESCENT DEVICES

Product Name:

RADIOLUMINESCENT GAUGES

Product dates

1910s-1960s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Mostly the U.S. Military, but various commercial manufacturers as well.

Description

Gauges such as speedometers, altimeters, etc., with various pieces painted in radioluminescent paint to make them glow and be able to be read in the dark. The paint is usually made of radium mixed with a luminescent powder, such as zinc sulfide. Depending on the specific manufacturer and model, the paint may be applied to any of: the gauge hands, numbers and tick marks, face, or bezel.

Manufacturer Claims

Gauge will glow in the dark.



Comments

Radioluminescent gauges were used in vehicles and aircraft, especially those of the U.S. military, around the 1930s to 1960s. The paint is the same as was used in luminescent timepieces (see entry in this catalog), however the radium content was somewhat higher to allow for a brighter glow. Activity content was normally on the order of 0.25 to 0.5 μCi .

These gauges are often collector's items and can be seen in some antique stores, museums, and personal collections. For more specific information on the history, use, activity content, and potential radiation doses, see the report Supplement to Radium Timepiece Dose Modeling: Radium Gauge Dose Modeling, issued May 2008.

References

<http://www.orau.org/ptp/collection/radioluminescent/gauge.htm>

ORAU report 0458-TR-01-0: Supplement to Radium Timepiece Dose Modeling: Radium Gauge Dose Modeling, issued May 2008.

LUMINESCENT DEVICES

Product Name:

RADIOLUMINESCENT MARKERS

Product dates

1930s- late 1960s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Bridge Markers
Deck Markers
Personnel Markers

Manufacturer

U.S. Military

Description

Disks of varying size and shape for attaching to soldiers, bridges, ships or any other area.

Manufacturer Claims

provides low level light sources for use at night



Comments

Some markers contained both Ra-226 and Sr-90. Many were not marked radioactive, some only with "Poison". Varying ranges of activity.

References

<http://www.orau.org/ptp/collection/radioluminescent/deck.htm>

LUMINESCENT DEVICES

Product Name:

RADIOLUMINESCENT ROPE

Product dates

1930s- late 1960s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

U.S. Military

Description

Plastic rope with retaining clips at either end. Rope contains radium so that it glows.

Manufacturer Claims

Rope will glow in the dark.



Comments

none

References

<http://www.orau.org/ptp/collection/radioluminescent/rope.htm>

LUMINESCENT DEVICES

Product Name:

RADIOLUMINESCENT SWITCHES

Product dates

various

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

U.S. Military

Description

Toggle switch with white paint containing Ra-226.

Manufacturer Claims

not available



Comments

Other switch and dial types were in use as well.

References

<http://www.ornl.gov/ptp/collection/radioluminescent/toggleswitch.htm>

LUMINESCENT DEVICES

Product Name:

RADIOLUMINESCENT TIMEPIECES

Product dates

early 1900s-1970s

Source Information

Known radium

Exposure Rate Information

Typical clock up to 5 $\mu\text{R/hr}$ at 1 meter

Other Names

Radium dial clocks
Radium dial watches

Manufacturer

Various manufacturers. Many are European, but some U.S. manufacturers as well.

Description

Wristwatches, pocket watches, and clocks with various pieces painted in radioluminescent paint to make them glow and be able to be read in the dark. The paint is usually made of radium mixed with a luminescent powder, such as zinc sulfide. Depending on the specific manufacturer and timepiece model, the paint may be applied to any of: the timepiece hands, numbers and tick marks, face, or bezel.

Manufacturer Claims

Manufacturers stated that the timepieces would glow.



Comments

Radium timepieces were extremely popular in the 1930s to 1950s. Most commonly seen are the wristwatches, although pocket watches and full-size clocks are also in existence. These timepieces are often collector's items and can be seen in some antique stores, museums, and personal collections. Radium in timepieces was replaced with promethium-147 and tritium beginning in the late 1960s.

Timepieces were made in many different models, shapes and sizes. The photo shown is of a representative wristwatch. Radium-226 activities in the timepieces vary based on the manufacturer and paint used. However, most common wristwatches have a radium content on the order of tenths of a microcurie, averaging around 0.25 μCi . Full-size clocks typically have more activity due to the larger painted area. Clock activities are commonly seen on the order of several microcuries, with an average of approximately 0.5 μCi .

Doses from radium timepieces varies depending on the activity content and physical design. As a very rough estimate of gamma exposure rates, radium-226 timepieces have an exposure rate of approximately 1 $\mu\text{R/hr}$ per μCi at a distance of 1 meter. For more specific information about potential doses, see the report Radium Timepiece Dose Modeling, Revision 1, dated September 2007.

References

<http://www.ornl.gov/ptp/collection/radioluminescent/clock.htm>
<http://www.ornl.gov/ptp/collection/radioluminescent/watchchevrolet.htm>

ORAU report: Radium Timepiece Dose Modeling, Revision 1, issued September 2007

LUMINESCENT DEVICES

Product Name:

RADIOLUMINESCENT WATCH HANDS

Product dates

early 1900s-1990s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Many manufacturers in early years of production.

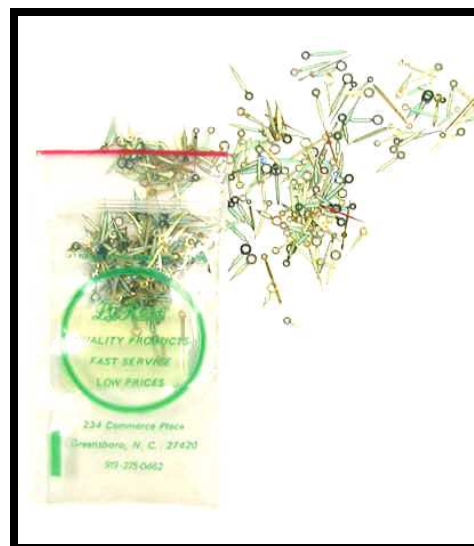
Only known distributor in later era was S. La Rose in the 1990s.

Description

Bulk watch hands for repair.

Manufacturer Claims

not available



Comments

none

References

<http://www.orau.org/ptp/collection/radioluminescent/radiumhands.htm>

LUMINESCENT DEVICES

Product Name:

RADIUM GUNSIGHT

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

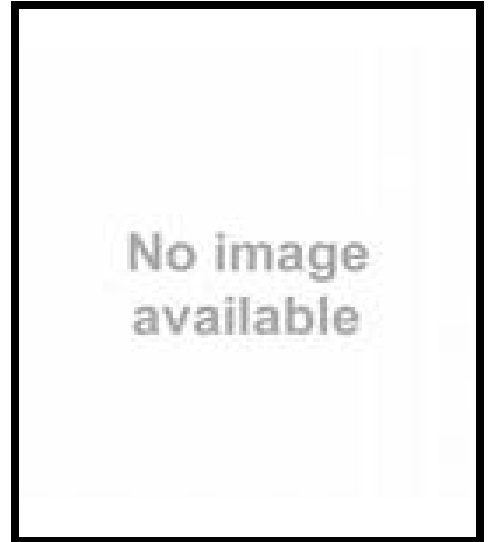
not available

Description

"Performance under low-light conditions can be further enhanced by the use of radium paint on the sides 11 and bottom 12 of channel 5, but only a small amount of radium should be used in order that the radium paint does not glow so brightly as to obscure the target."

Manufacturer Claims

not available



Comments

United States Patent 3777380 filed in 1971. No indication of actual manufacture.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

<http://www.freepatentsonline.com/3777380.html>

LUMINESCENT DEVICES

Product Name:

RADIUM TOUCH-UP KITS

Product dates

various

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

Various

Description

Paint touch-up kits for renewing the glow on watch hands/faces and dials.

Manufacturer Claims

not available



Comments

Representative picture shown.

References

<http://www.ornl.gov/ptp/collection/radioluminescent/radioluminescent.htm>

LUMINESCENT DEVICES

Product Name:

SPOTTERS

Product dates

1920s-1940s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Radio-Glo
Spotter Button
Darkize
Dark Eyes
Radium Light
Acorns

Manufacturer

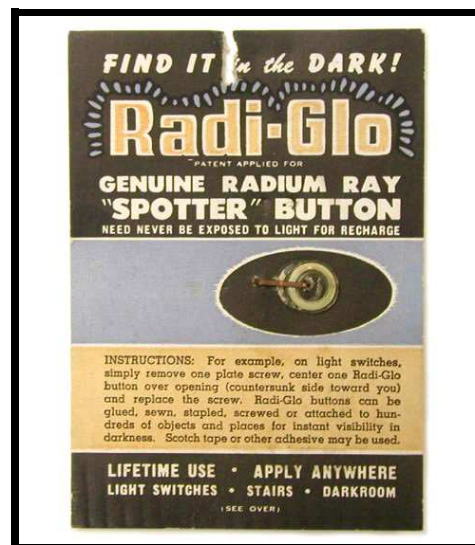
Various, including:
Lustrolite Cleveland Corp. -
Cleveland, OH

Description

Buttons of various shapes that could be affixed to anything to see it in the dark. Radi-Glo contained 0.33 μCi radium; Darkize contained 0.5 μCi radium.

Manufacturer Claims

Shines in the dark. Need never be exposed to light for recharge. Lifetime use (Radi-Glo). Will shine for 10 years (Darkize).



Comments

Representative picture.

References

Living with Radiation pg. 74
<http://www.orau.org/ptp/collection/radioluminescent/radiglo.htm>

MEDICAL DEVICES

Product Name:

CAPSULES

Product dates

1930 - 1960

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Radium Capsules
Radium Screens

Manufacturer

Unknown, but likely manufacturer-
Atomic Energy of Canada Limited
Commercial Products Division
Ottawa, Canada

Description

Capsules and screens look much like the radium tubes that were used for brachytherapy, except that they are larger. Just like tubes, they would be placed inside a cavity (e.g., the uterus) or on the surface of the body, possibly within a mold.

Manufacturer Claims

not available



Comments

Capsules were used to hold radium tubes or needles. By using various combinations of tubes or needles in one capsule, a greater range of activities could be obtained.

A screen was used to change the filtration of the radiation. Gold, silver and brass were the most common materials used for screens.

Note: Questionable authenticity due to "Homemade Display"

References

R. Paterson. The Treatment of Malignant Disease by Radium and X-rays. Edward Arnold & Co. London. 1948.
Union Miniere du Haut Katanga Radium Department. Radium. Brussels. No date. ca. 1928-1930.
X-Ray and Radium Industries Limited catalog. No date. ca. 1950s.
Radium Chemical Company of Colorado catalog. Copyright date 1921.

MEDICAL DEVICES

Product Name:

PLAQUES

Product dates

1941-1965

Source Information

Known radium

Exposure Rate Information

~0.8 R/hr

Other Names

Radium Plaques
Simpson Oval Plaque

Manufacturer

Radium Chemical Company, Inc.
Canadian Radium & Uranium Corporation -
New York City, NY

Description

Full Strength Plaques - Uniformly distributed 5 mg of radium over an area of 1 sq. cm.
Sizes from 1 to 8 sq. cm.

Half Strength Plaques - Uniformly distributed 5 mg of radium over an area of 2 sq. cm.
Sizes from 2 to 8 sq. cm.

Double Strength Plaques - Uniformly distributed 10 mg of radium over an area of 1 sq. cm.
Sizes from 1 to 4 sq. cm.

Manufacturer Claims

The manufacturer claimed the following: "We are prepared to supply in any quantity high-purity Radium, not only in standard containers as illustrated, but in special types of tubes, needles, cells and plaques to meet the specification of physician or hospital. This service applies to radium accessory equipment as well. All radium containers are sold by us under official measurement certificates of the National Bureau of Standards, Washington, D. C. All radium certified and guaranteed free of mesothorium and all other short-lived radioactive substances. We maintain large stocks of therapeutic radium. Our organization is staffed by outstanding technical advisers, thoroughly acquainted by long experience with the requirements of the Medical Profession."



Comments

Interesting story about a discovery at
<http://www.physics.rutgers.edu/~koeth/hp/radium.html>.
Plaques could be any shape, such as square, oval, or round.

References

Catalog of Radium and Accessory Equipment for Modern Radium Therapy. Canadian Radium & Uranium Corporation, New York City, NY. Copyright 1941.

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

Product Name:

TUBES

Product dates

1940s - 1950s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Radium Tubes
Radium Containers
European-Type Platinum-Iridium Tubes
American-Type Platinum-Iridium Tubes
Industrial Tube

Manufacturer

Radium Chemical Company, Inc. -
Union Miniere, Belgium

Canadian Radium & Uranium Corporation

Description

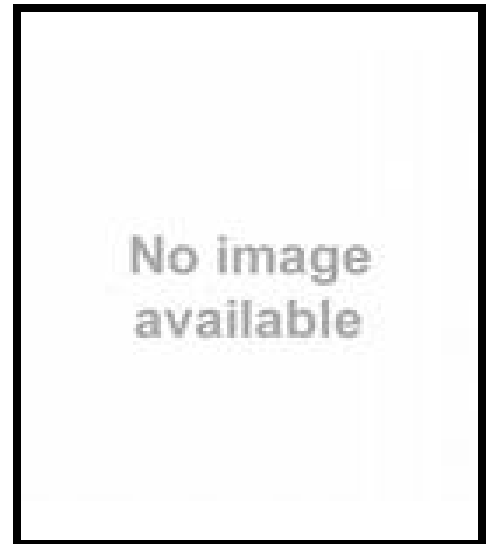
Platinum-iridium cell filled tubes. Sizes ranged from 5 to 50 mg of radium, with active lengths of 9, 12, and 15 mm.

European-Type Tubes - enclose a platinum-iridium cell containing the radium. Total filtration, 0.5 mm, 1.00 mm, or 1.5 mm. Size availability: 2 mg, 5 mg, 6.66 mg, 10 mg, or 15 mg.

American-Type Tubes - radium is filled directly into tube with no inner cell. Filtration, 0.5 mm, 1.00 mm, or 1.5 mm. Size availability: 25 mg, 50 mg, or 100 mg.

Manufacturer Claims

not available



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

SMOKE DETECTORS

Product Name:

EXHAUST AND GAS DETECTOR

Product dates

unknown-1970

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Statitrol

Manufacturer

Val-Tron Inc, Morrison, CO.
Statitrol Corp, Denver, CO.

Description

Sealed source consisting of 1.0 μCi Ra-226 using Amersham/Searle Model RAN foils.

Manufacturer Claims

This item detects engine exhaust gases in ambient air or ventilation systems as part of the Model 302-0001 Exhaust Gas Analyzer subassembly.



Comments

As manufactured, met requirements of 10 CFR 32.26 and were exempt from regulation.

References

Registry of Radioactive Sealed Sources and Devices - Safety Evaluation of Device December 21, 1970, Colorado Dept of Public Health and Environment

10 CFR Part 32, "Specific Domestic Licenses to Manufacture or Transfer Certain Items Containing Byproduct Material", U.S. Nuclear Regulatory Commission

10 CFR 32.26, "Gas and aerosol detectors containing byproduct material: Requirements for license to manufacture, process, produce, or initially transfer", U.S. Nuclear Regulatory Commission.

SMOKE DETECTORS

Product Name:

SMOKE DETECTOR

Product dates

1940s-1978

Source Information

Known radium

Exposure Rate Information

Various with activity of source.

Other Names

unknown

Manufacturer

Pyrotronics
US Radium Corp (Ionotron)
F-3 Pyr-A-Larm

Description

Ionization chamber smoke detectors (ICSDs). Detection of relatively small particulates (0.01 to 1.0 μm).

Manufacturer Claims

not available

Comments

none

References

<http://www.ornl.gov/PTP/collection/consumer%20products/smokedetector.htm>



STATIC ELIMINATORS

Product Name:

LIGHTNING ARRESTOR ROD

Product dates

1932-1986 (U.S. mfg dates)

Source Information

Known radium

Exposure Rate Information

Dependent upon Ra-226 activity level.

Other Names

unknown

Manufacturer

British Lightning Preventer
Leicesestershire, England
Distributed by Heary Bros. Lightning
Protection Company, Inc.
Springville, NY 14141
Foil manufactured by Radiochemical Cente,
Amersham, England.

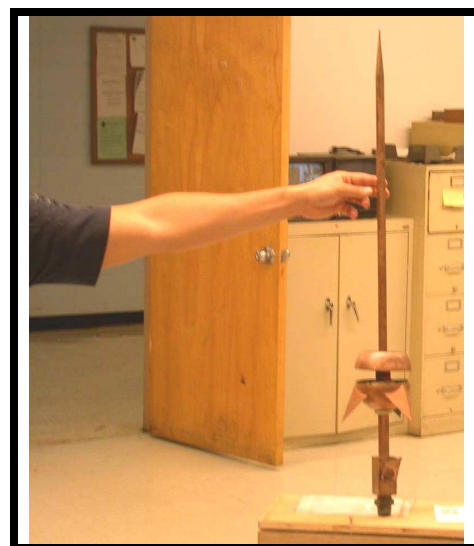
Description

Ra-226 was applied to circular discs with activities generally in the 1-10 mCi range per disc. Lightning Preventor models containing Ra-226 were assigned the following maximum activities:

Model P-1: 7.5 μ Ci.
Model P-2: 18.75 μ Ci.
Model P-3: 52.0 μ Ci.
Model P-4: 80.0 μ Ci.

Manufacturer Claims

This item increases the protective zone above the lightning rod by ionizing surrounding air and creating an avalanche effect.



Comments

Preventor looks different than supplied picture
(<http://www.hearybros.com/>)

Studies (Fritsch 1971 and Baatz 1973) have not determined that there is any benefit in using radioactive isotopes in lightning rods, e.g., creating a greater protective space. Instead, they cost more and pose a primary risk (albeit small) to installation and maintenance personnel.

References

Living with Radiation, pg. 75
M. Belli et al., Public Health Aspects in the Use of Ra-226 and Americium-241 in Lightning Rods
Registry of Radioactive Sealed Sources and Devices - Safety Evaluation of Sealed Source, New York State Department of Labor, June 1980.

STATIC ELIMINATORS

Product Name:

STATIC ELIMINATOR

Product dates

various

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Static Bar
Static Eliminator Bar

Manufacturer

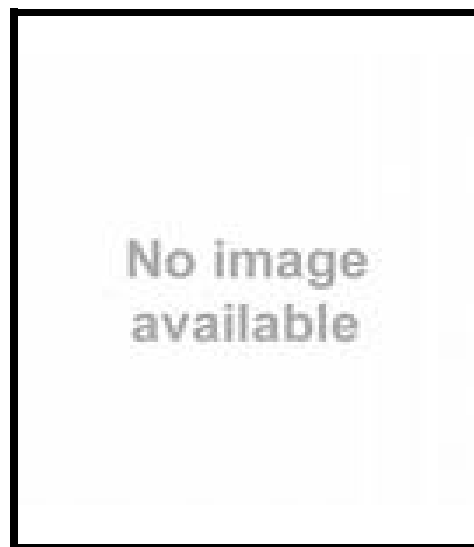
not available

Description

Varying lengths x 1 1/2" - 2" wide. Radium is plated on metal plate and then covered with thin metal foil.

Manufacturer Claims

not available



Comments

none

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

TOYS / NOVELTIES

Product Name:

ATOMIC ENERGY LAB

Product dates

Late 1950s - early 1960s

Source Information

Known radium source, also uranium ore

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

American Basic Science Club

Description

Cloud chamber, spinthariscopes, electroscope, uranium ore source and radium source.

Manufacturer Claims

The item allows the viewer to observe the vapor trails of alpha and beta particles and cosmic rays. Shows exploding atoms. Measures background radiation and tests sample sources.



Comments

See "Spinthariscopes"

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

Product Name:

GILBERT U-238 ATOMIC ENERGY LAB

Other Names

unknown

Manufacturer

Alfred Carlton Gilbert

Product dates

Late 1940s - early 1950s

Source Information

Known uranium ore

Exposure Rate Information

unknown

Description

- U-238 Geiger radiation counter.
- Electroscope to measure radioactivity of different substances.
- Spinthariscopes to watch "live" radioactive disintegration.
- Wilson Cloud Chamber to see paths of electrons & alpha particles at 10k mps
- Three very low-level radioactive sources (Alpha, Beta, Gamma).
- Four samples of Uranium-bearing ores
- Nuclear Spheres (used to visual build models of molecules)
- The book "Prospecting for Uranium"
- The "Gilbert Atomic Energy Manual"
- The comic book "Learn How Dagwood Splits the Atom"
- Three "Winchester" Batteries (size "C")

Manufacturer Claims

This item was claimed to be exciting and safe.



Comments

See "Spinthariscopes"

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

Product Name:

PORTER ATOMIC ENERGY KIT

Product dates

Late 1940s; 1950s

Source Information

Known radium source, also uranium ore

Exposure Rate Information

Unknown

Other Names

unknown

Manufacturer

Porter Chemical Company
("Chemcraft" trademark)
Hagerstown, MD.

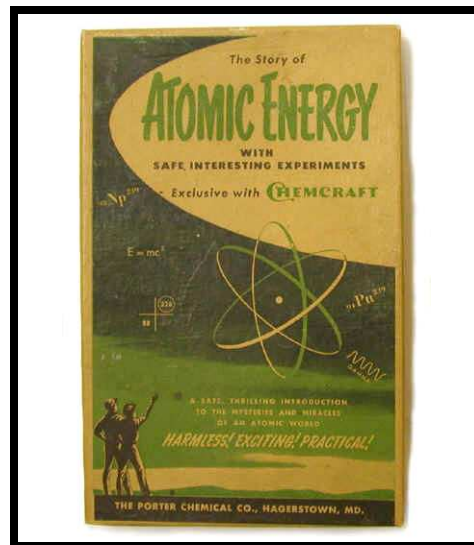
Description

The item is comprised of several components consisting of a "radioactive screen", standard spintharoscope, and two glass vials containing uranium ore and a "uranium chemical", respectively. The radioactive screen was a small piece of heavy paper containing deposited radium. The spintharoscope also contained radium.

The accompanying booklet entitled "The Story of Atomic Energy with Safe, Interesting Experiments" was essentially a primer on radioactivity.

Manufacturer Claims

The manufacturer stated that "The Story of Atomic Energy" was a "Safe, Thrilling Introduction to the Mysteries and Miracles of an Atomic World".



Comments

See "Spintharoscope"

References

The Story of Atomic Energy, Porter Chemical Company, Hagerstown, MD

TOYS / NOVELTIES

Product Name:

RADIUM PASTILLEN

Product dates

unknown

Source Information

Not known

Exposure Rate Information

unknown

Other Names

Heidelberger Radium Patillen

Manufacturer

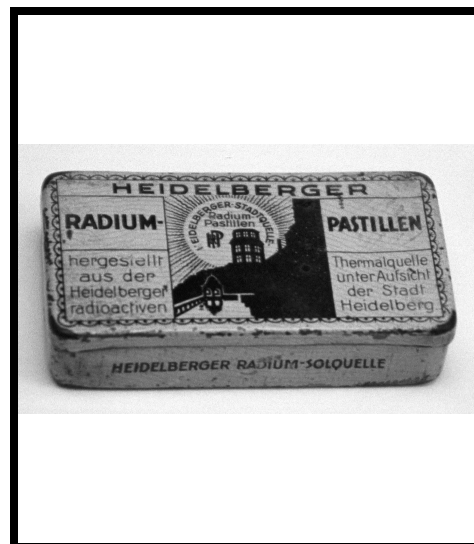
Heidelberger Radium-Solquelle

Description

The item consisted of radium candy in tin.

Manufacturer Claims

not available



Comments

Untranslated German.

References

Paul Frame, PhD, CHP
Manager ORISE Professional Training Program
ORISE historical radium item information binders

TOYS / NOVELTIES

Product Name:

RADIUM STAR MAP

Product dates

1920s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

E.E. Sundell - Oak Park, IL

Description

Four, 1' hinged wood panels with stars and constellations painted in radium paint so that they glow in the dark.

Manufacturer Claims

not available



Comments

none

References

Lining with Radiation pg. 73

TOYS / NOVELTIES

Product Name:

SPINTHARISCOPE

Product dates

late 1940s, 1950s

Source Information

Known radium

Exposure Rate Information

unknown

Other Names

Radioactive screen
Lone Ranger Atomic Bomb Ring
KIX Atomic Bomb Ring
Space Patrol Hydrogen Ray Gun Ring

Manufacturer

Radium Chemical Company (among others)

Description

Radium was placed on a zinc sulfide (ZnS) screen inside a plastic body and lens.

Manufacturer Claims

Watch Atoms Being Split!



Comments

Generally given as cereal (Ralston) premiums or as/part of toys (see Porter Atomic Energy Kit and Gilbert U-238 Atomic Energy Lab). About 3.4 million produced from January 19, 1947 through the early 1950s.

References

Living with Radiation pg. 73

Product Name:

TOM MIX MAGIC-LIGHT TIGER-EYE RING

Product dates

1954

Source Information

Other radioactive

Exposure Rate Information

unknown

Other Names

unknown

Manufacturer

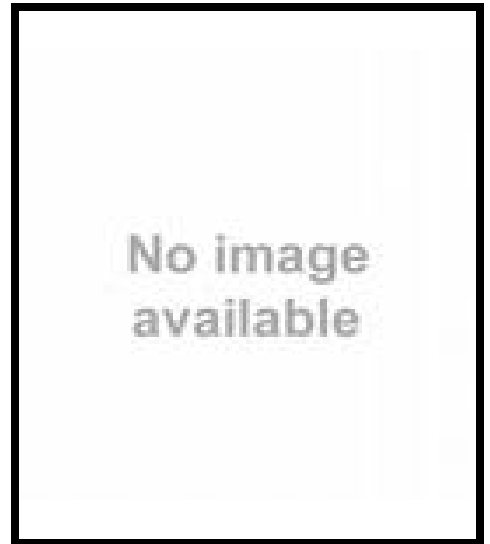
Distributed by Ralston

Description

Contained Po-210 in quantity sufficient to give steady glow (until it completely decayed away).
Ring made of plastic.

Manufacturer Claims

Contains a polonium compound which makes it glow mysteriously in the dark. The dome over the 'eye' magnifies it so it really looks as big as a cat's eye. Amaze all your friends with this magic ring.



Comments

Ring was prize with \$0.20 and one box top.

References

Living with Radiation pg. 73