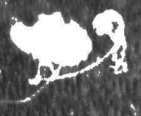
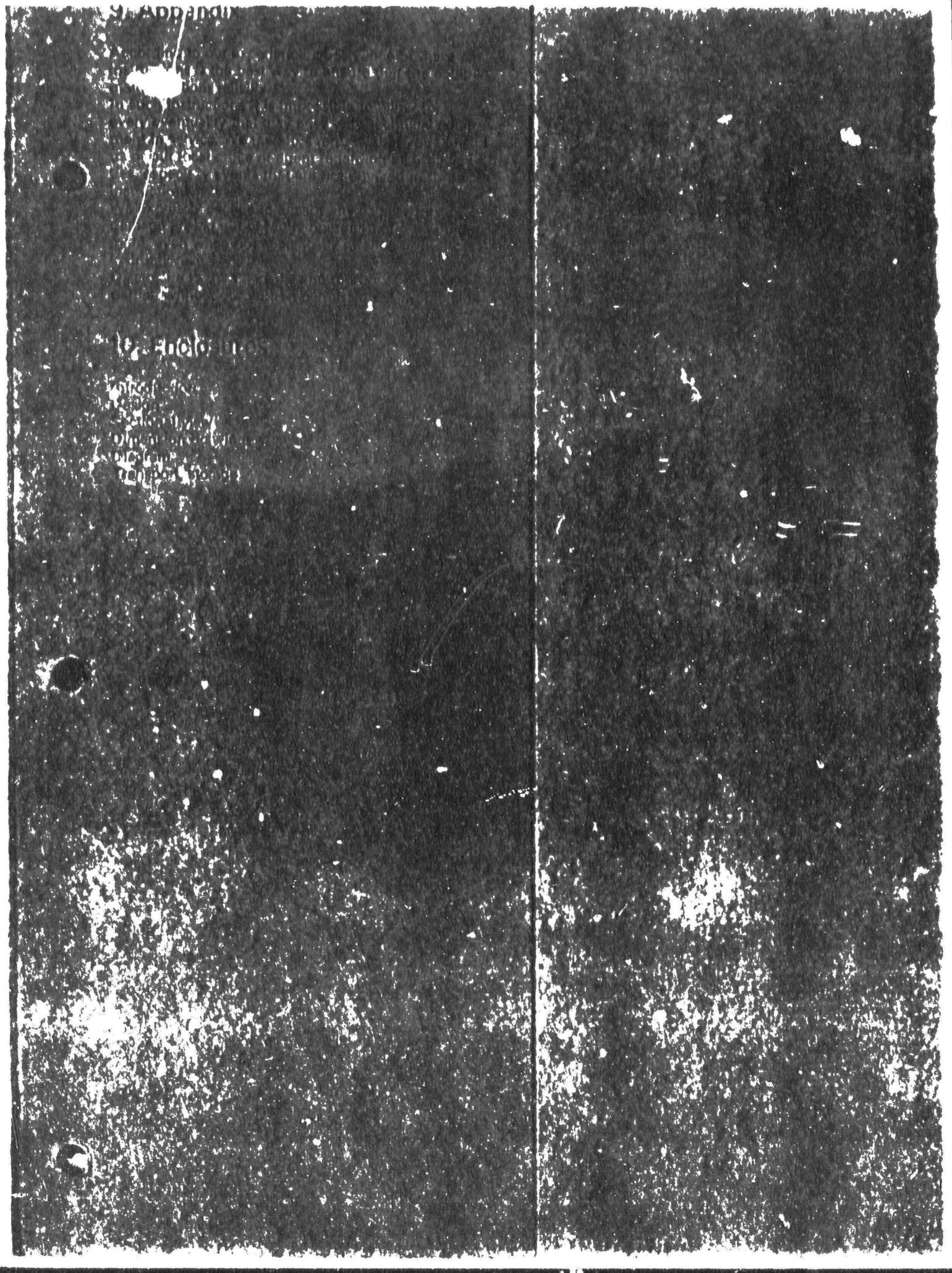
BBC
BROWN BOVERI

High-voltage current transformers types ADK and AOT





Normal

A WBZ

Schéma de connexions / Connection diagram / Schaltschema

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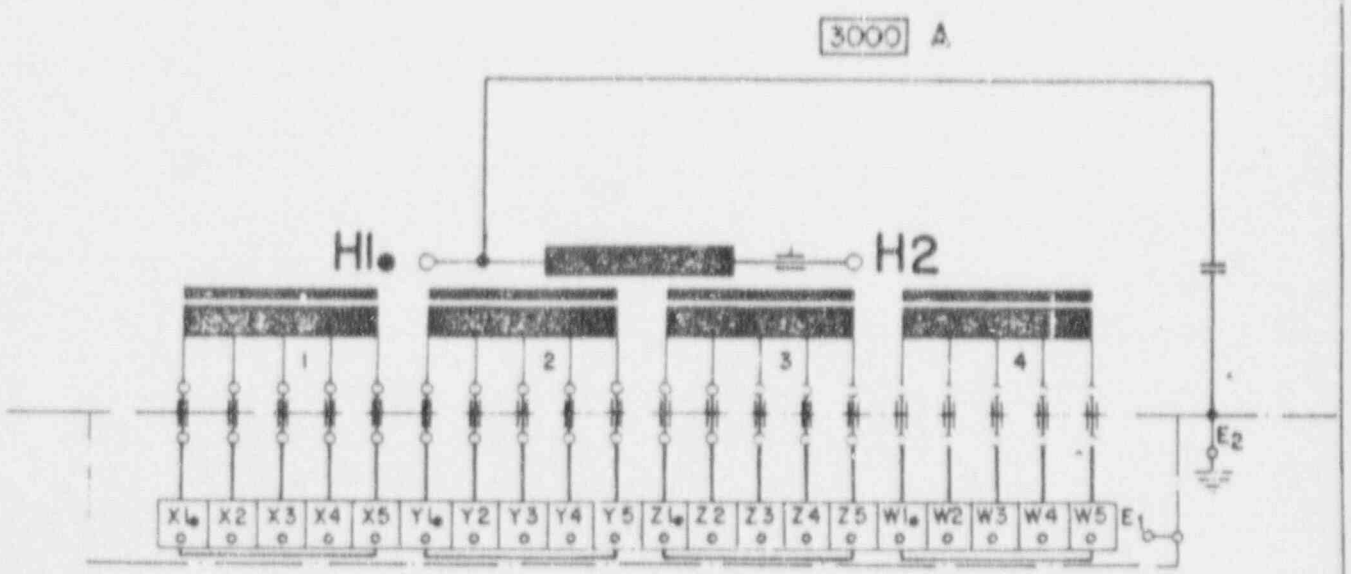
STROMWANDLER
CURRENT TRANSFORMER
TRANSFORMATEUR DE COURANT

SER HA 384415 ... 432	dat 1982		Typ AOK 550 MA		
IC/MSV 550 kV	f 60 Hz	I 40 kA	3 s		
BIL 1800 kV Full wave		I 108 kA			
1, 2, 3, 4					
3000 / 5 A MR					
CI	C 800				
RF	2				
ANSI C 57.13-1978	Contract No PAV 2-151				

Instruction book No	CH - A 046416 E
Ambient temperat	30 °C
Total weight approx	7615 lbs
Oil approx	2625 lbs



Achtung: Hochspannung bei offenen Sekundärwicklungen
Attention: High voltage with open circuited secondaries
Attention: Haute tension si enroulements secondaires

Primär Primary Primaire			Sekundär — Secondary — Secondaire											
			Kern / Core / Noyau											
			1		2		3		4		5		6	
Amp	Anschluss Connection Raccord	Verbindung Connection Liaison	A	Anschluss Connection Raccord	A	Anschluss Connection Raccord	A	Anschluss Connection Raccord	A	Anschluss Connection Raccord	A	Anschluss Connection Raccord	A	Anschluss Connection Raccord
3000	H1 - H2	—	5	X1 - X5	5	Y1 - Y5	5	Z1 - Z5	5	W1 - W5				
2500			5	X1 - X4	5	Y1 - Y4	5	Z1 - Z4	5	W1 - W4				
2200			5	X1 - X3	5	Y1 - Y3	5	Z1 - Z3	5	W1 - W3				
2000			5	X2 - X5	5	Y2 - Y5	5	Z2 - Z5	5	W2 - W5				
1500			5	X2 - X4	5	Y2 - Y4	5	Z2 - Z4	5	W2 - W4				
1200			5	X2 - X3	5	Y2 - Y3	5	Z2 - Z3	5	W2 - W3				
1000			5	X1 - X2	5	Y1 - Y2	5	Z1 - Z2	5	W1 - W2				
800			5	X3 - X5	5	Y3 - Y5	5	Z3 - Z5	5	W3 - W5				
500			5	X4 - X5	5	Y4 - Y5	5	Z4 - Z5	5	W4 - W5				
300			5	X3 - X4	5	Y3 - Y4	5	Z3 - Z4	5	W3 - W4				

Aa | Datum

A

Schaltung für Abstufung 3000 | Connection for stepment | Couplage à rapports

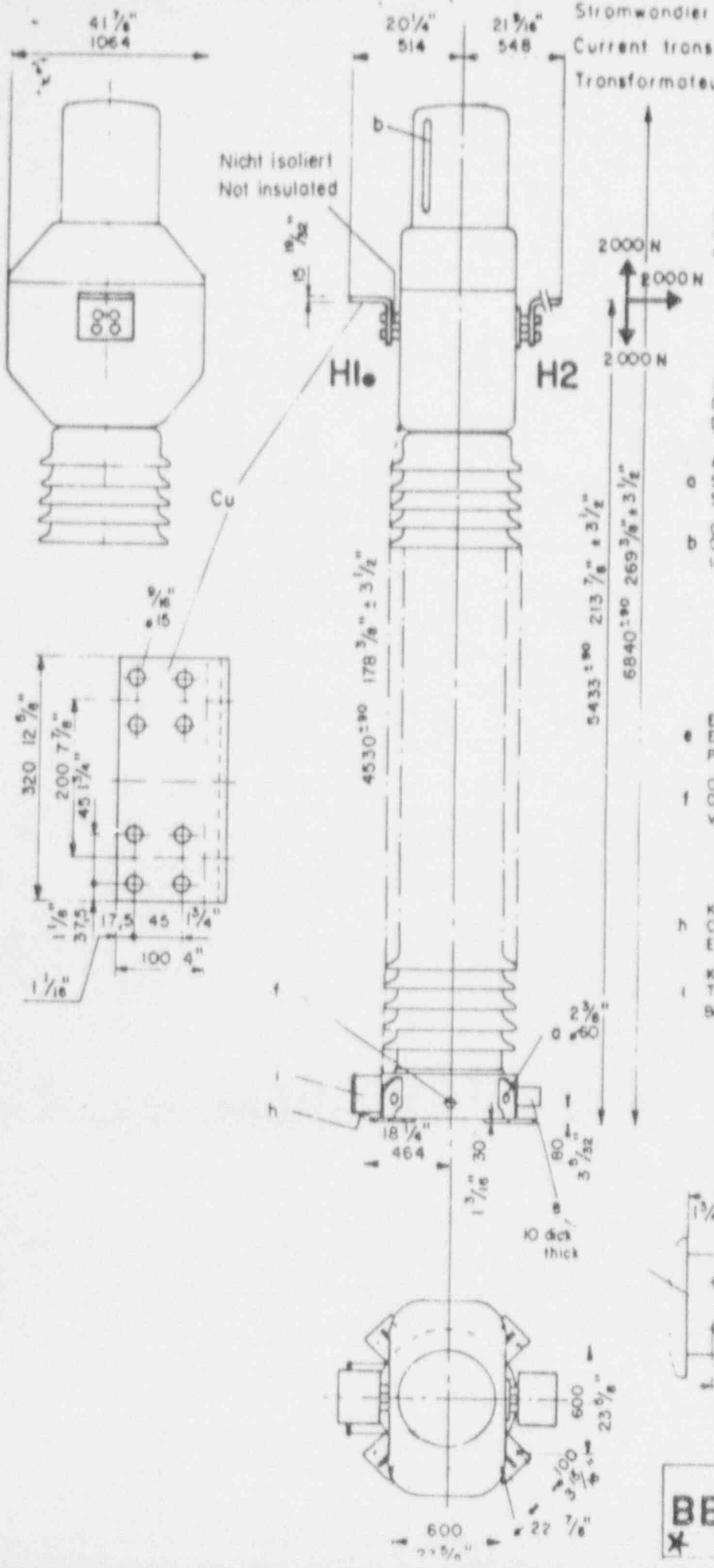
Stromwandler
Current transformer
Transformateur de courant

AOK 550MA

Croquis d'encombrement

Dimensio.. sketch

Massbild



Wandler mit Oel
Transformer with oil
Transformateur avec huile 7615 lbs

Oel
Oil
Huile 2625 lbs

Zugehörige Zeichnungen
Corresponding drawings
Dessins correspondants

a Aufhängung
Suspension
Suspension UTM 90107

b Oelstandanzeiger
Oil level gauge
Indicateur niveau d'huile HAMM 428531

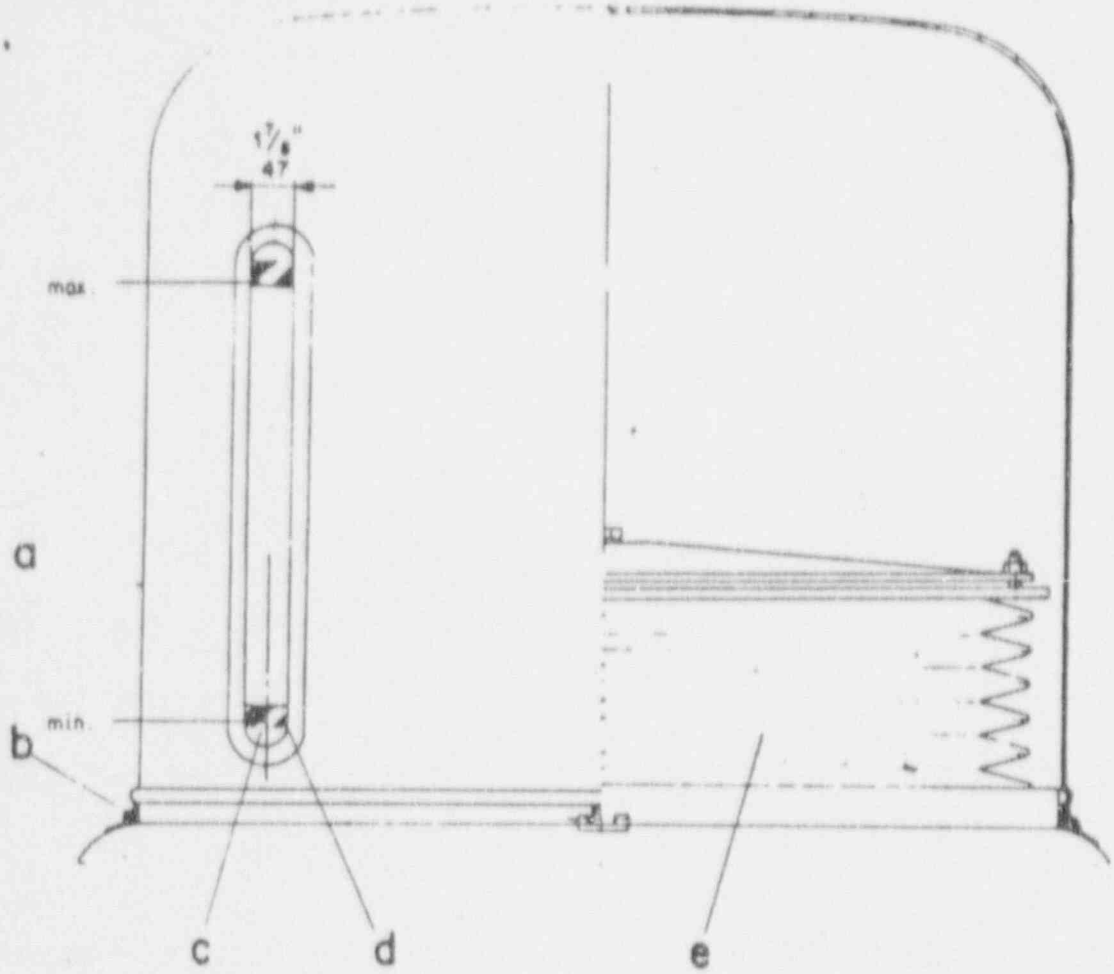
e Erdungslasche
Earth plate
Plaque de terre

f Oelablass
Oil drain
Vis de vidange d'huile TM 409885

h Kabeleinführung
Cable inlet
Entrée de câble

i Klemmenkasten
Terminal box
Boîte à bornes HAMM 428532

BBC	P 300		
	Gezeichnet	80-06-17	
	Geprüft	80-06-17	



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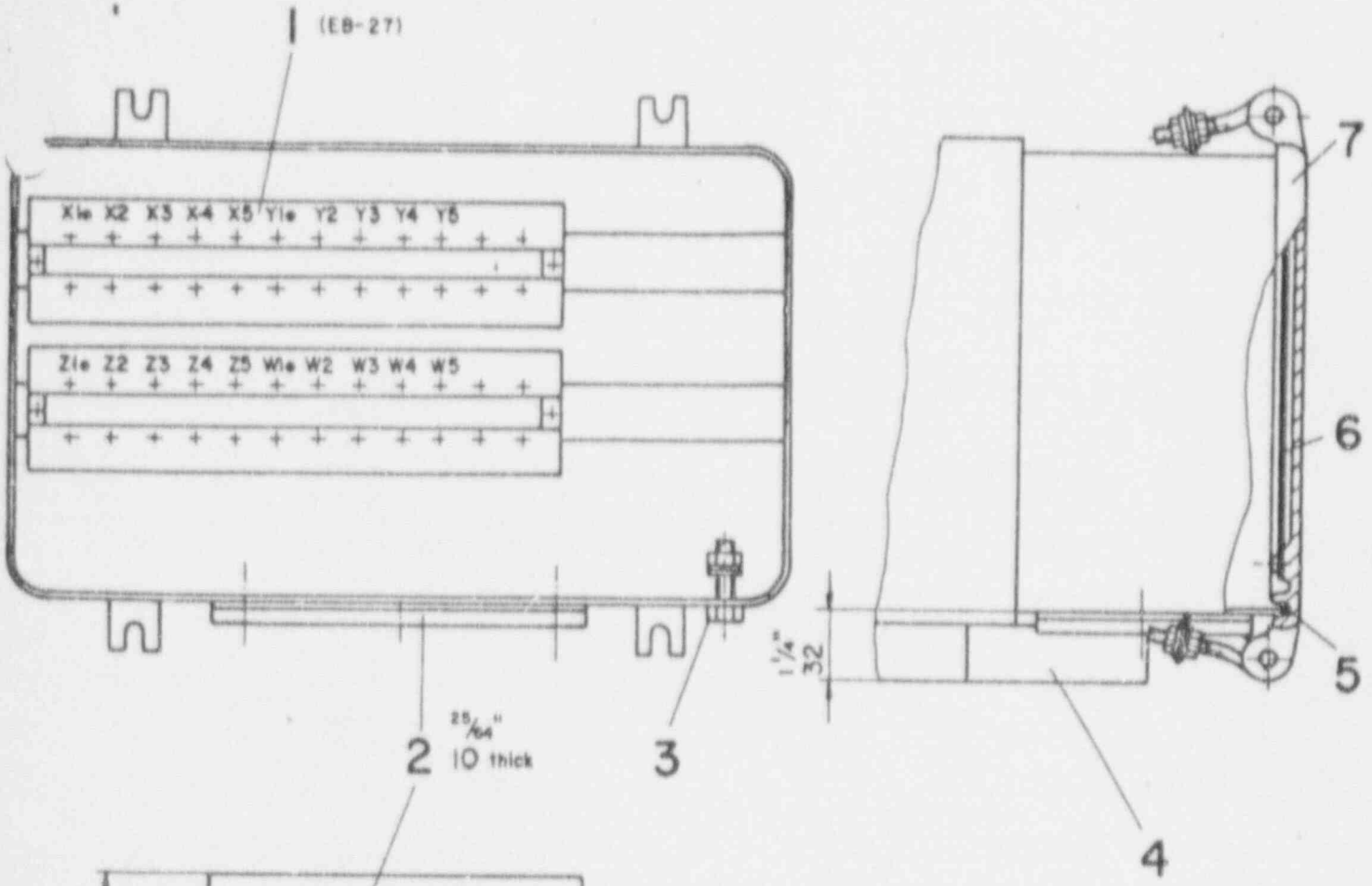
e	Faltenbalg	Bellow	Soufflet élastique
d	Zeiger	Pointer	Indicateur
c	Glas	Glass	Verre
b	Stift	Pin	Fiche
a	Haube	Cap	Capot

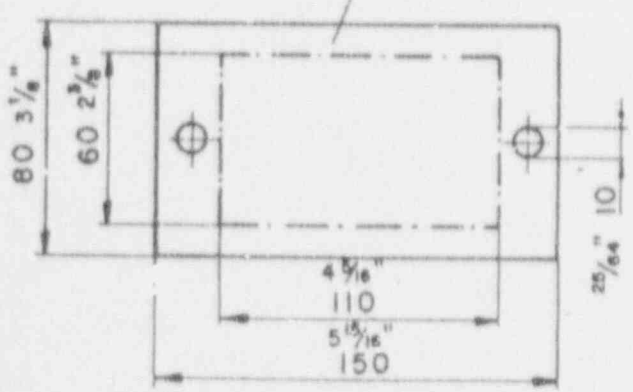
Anschlusskopf

Ersetzt durch

Ersatz für

Massstab	Gezeichnet	80.06.13





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7	Deckel	Cover
6	Schaltschild	Diagram plate
5	Dichtung	Gasket
4	Fussplatte	Sole plate
3	Erdung	Earth
2	Kabelstutzen	Cable end box
1	Klemmenblock	Terminal block

Klemmenkasten

Ersetzt durch
Ersatz für

Maßstab | Gezeichnet 80-06-13

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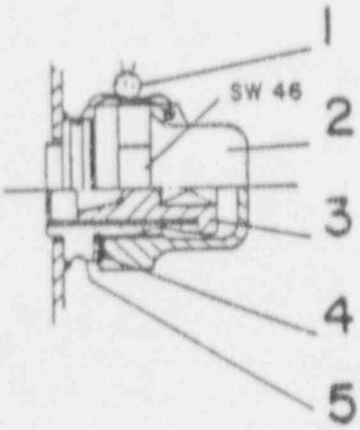
Oelablass Vidange d'huile Oil drain

Fig. 1 Geschlossen Closed Fermé



1	Plombe	Seal	Plomb
2	Kappe	Cap	Bouchon
3	Verschlussschr.	Cap screw	Bouchon à vis
4	Dichtung	Packing	Joint
5	Stutzen	Flange	Tubulure

Fig. 2 Oelprobe Oil sampling Prélèvement d'huile

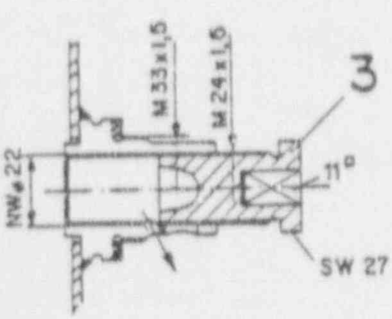
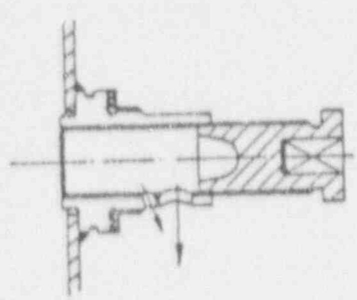
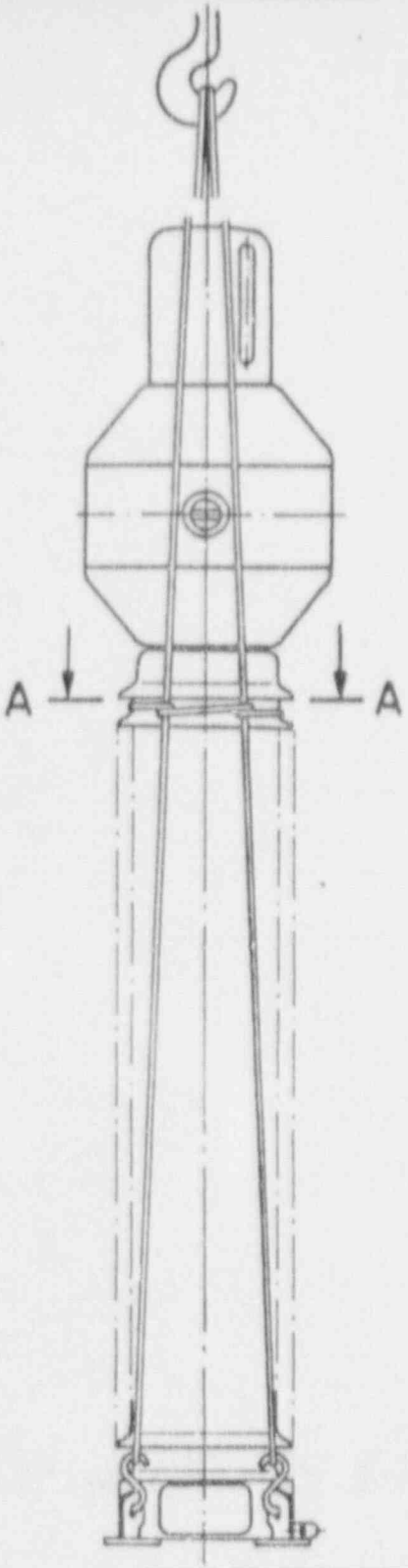
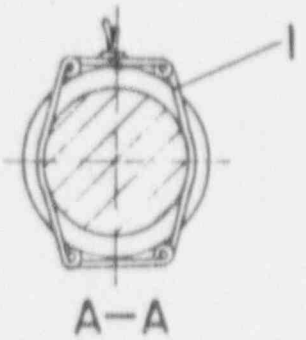


Fig. 3 Offen Open Ouvert







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1	Sicherungsseil	Safety rope	Corde de sûreté

Aufhängung für Messwandler
Suspension for instrument Trans.

Ersetzt durch:
Ersatz für: Zeich'g gl. Nr.

Massstab			
	Gezeichnet:	17. 9. 80	Kuhl
	Geprüft:		
	Gesehen:	16.9.80	Buchi

Ae.: A)

BBC
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BBC Brown, Boveri & Company, Ltd.
CH-5401 Baden/Switzerland

Division A

High-voltage current transformers types AOT, AOK and AOS

for installation indoors and outdoors with bellow-type oil seal, non-pressurized and without gas cushions

Packed for transport in *horizontal* position

Instruction No. HAMM 90150 E/a

Instructions for transport and storage

1. Insurance, damages, damage report

Before expiry of the transport insurance, the instrument transformers should be examined by the addressee at the destination indicated in the Brown, Boveri & Co. despatch document as also in the insurance policy for possible damages e.g. oil traces, damaged packing and porcelain.
Damages should be reported immediately to the transport insurance company and the sales department of Brown, Boveri & Co., Baden/Switzerland, giving the packing number. A report concerning the damages should be obtained from the inspector of the transport insurance company and sent to the sales department of Brown, Boveri & Co., Baden/Switzerland.
It is recommended that the client obtains a full insurance cover from the factory to the site.

2. Storage

2.1 Horizontal storage

If nothing else has been agreed upon, the packed instrument transformers can be stored for up to a year in the horizontal position provided the following storage conditions are met:

a) Ambient temperature $-10°C \ldots +40°C$,
b) protected from climatic influences and extreme humidity, e.g. rain, puddles, dew, putrefaction, snow and icing,
c) protected from damage by insects.

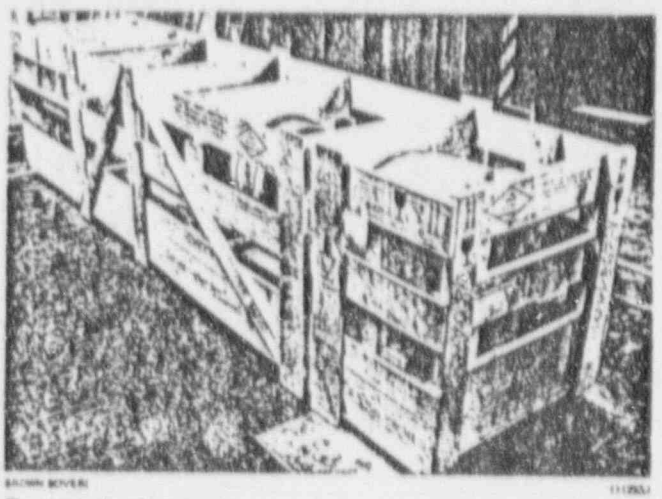
Depending on the local weather we recommend a storage hall, or covering with tarpaulin or plastic sheets, or placing on solid rafters, etc., or all these together.

2.2 Vertical storage

If after arrival at site, the instrument transformers are heaved into the upright position and made ready for taking into service as per the instructions "Raising of instrument transformers from the horizontal transport position into the upright position", then they can be stored outdoors or unprotected places for indefinitely long periods without requiring any special measures.

3. Transport after storage

Before retransporting the packed instrument transformers after a long storage, the packing should be checked for possible damages due to breaks, wood-rotting, damage by insects, etc. In case of damages suitable remedial measures should be taken. In any case attention should be paid to the fact that, depending on the storage conditions, the packing may have lost some of its load carrying capacity and the packed unit must be correspondingly more carefully transported.
The instrument transformers should be raised from the horizontal into the upright position according to the separate instructions "Raising of instrument transformers from the horizontal transport position into the upright position".
~~Lifting of the packed transformers by means of the lugs provided on the case cover or the case front for heaving into the upright position is not permitted.~~
For further transport in the horizontal position the instrument transformers must be repacked, in the reverse order, for such transport in accordance with the instructions "Raising of instrument transformers from the horizontal transport position into the upright position".



The case is closed for transport.

Instructions for Unpacking, Completition and Raising in. erti position

AOK

1. Unpacking
2. Completition of transformer
3. Raising into vertical position
4. Detaching cradle
5. Suspension

1. Unpacking (Fig. 1)

1.1 Opening the crate

1.1.1 Open the top of the horizontal crate

1.1.2 Remove the protective foil and the wooden bracing to enable the cradle B with the transformer to be lifted upwards out of the crate.

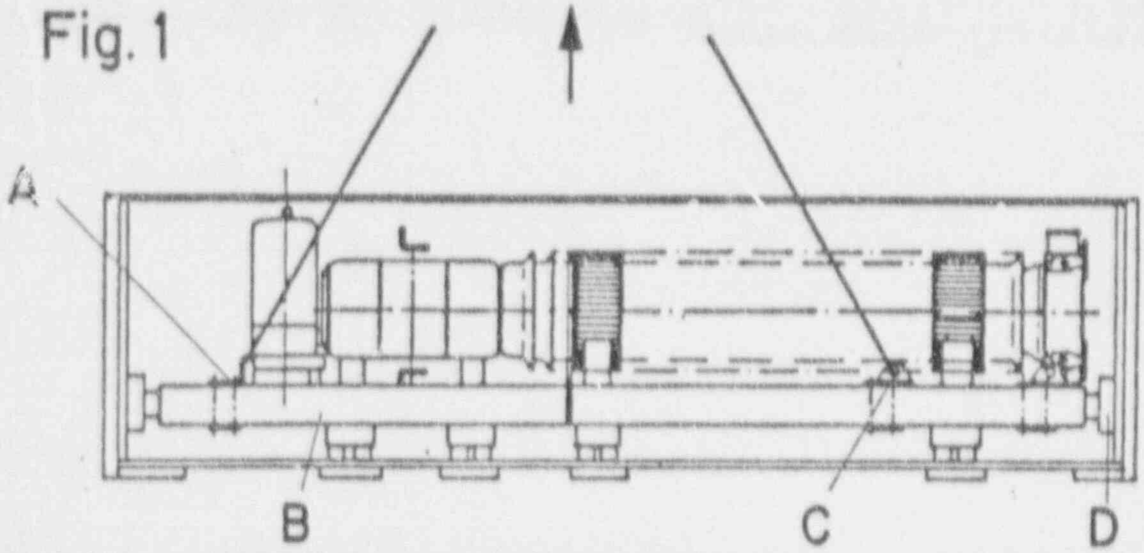
1.2 Removing out of the crate

1.2.1 Check the screw connections at suspension lugs C and at carrier A. Tighten if necessary.

1.2.2 Lift cradle B with the transformer out of the crate by means of suspension lugs A, C.
If the crate also rises → 1.2.3

1.2.3 Knock out distance piece D.

Fig. 1



2. Completition of transformer

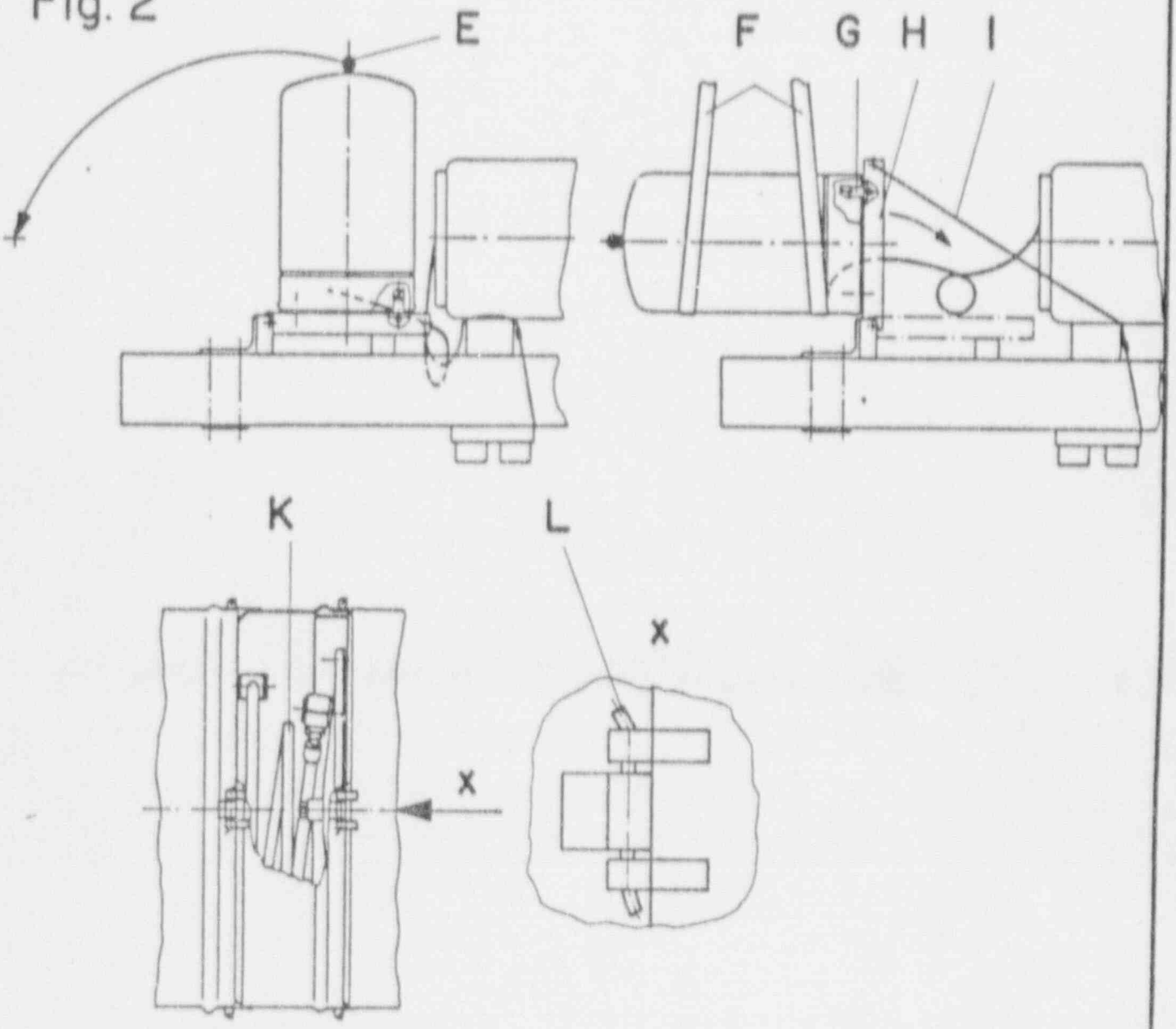
2.1 Turn top of head into horizontal position until it hangs on tilt-protection I. Turn at lug E by hand or by crane depending on size.

2.2 Suspend top of head at crane by means of 2 ropes F.

2.3 Remove the screw connections G, turn back flap H.

2.4 Fix top of head horizontally at head by means of pins L. Pay attention to hose K when assemblying top of head with head.

Fig. 2



3. Raising into vertical position

3.1 Insert (shortest possible) rope in both holes M.

3.2 Check screw connections of transformer foot to cradle. Tighten if necessary.

3.3 Erect by crane up to critical position.

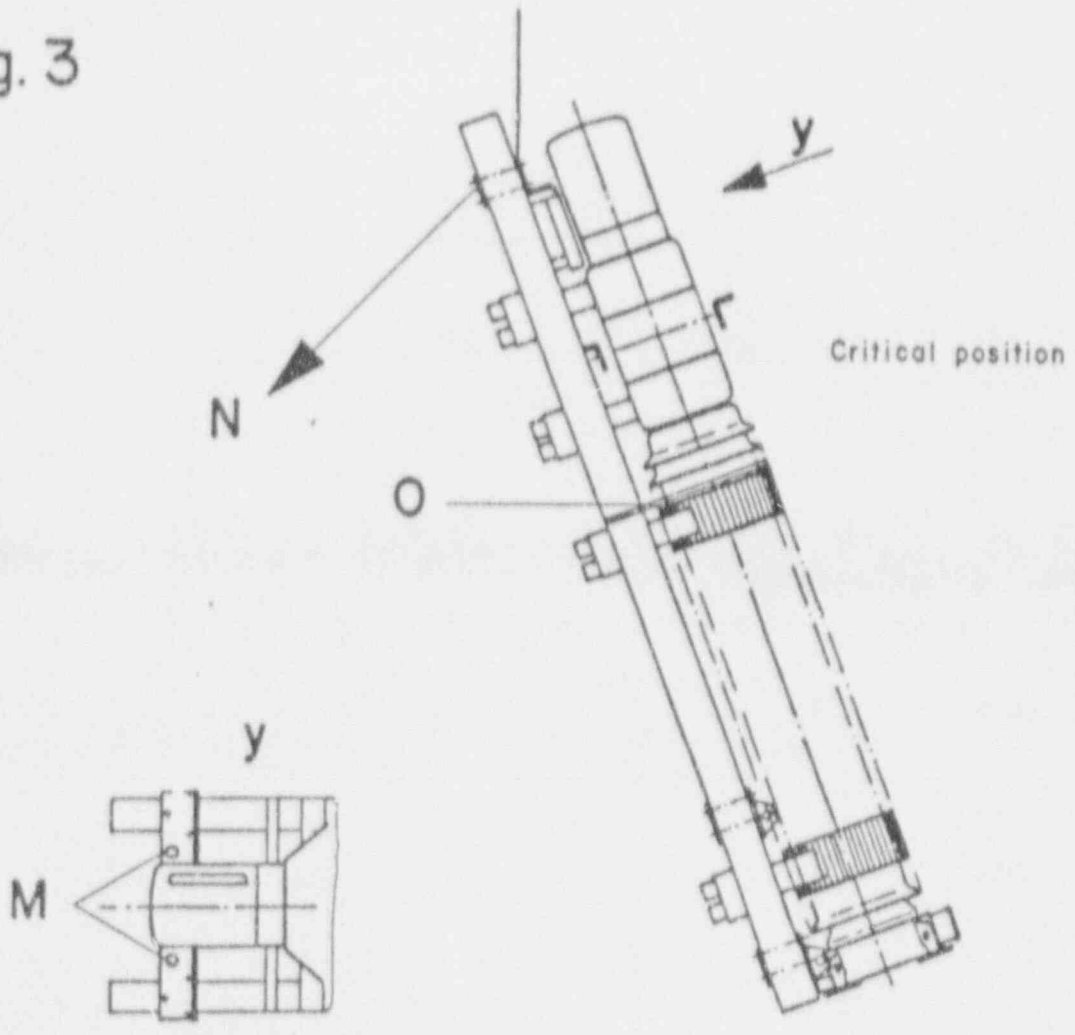
3.4 Final erection after critical position by moving the crane alternately in vertical and horizontal direction.

3.5 Further erection after critical position (overturning) can be damped by tow-rope N.

3.6 On cradle, transformer is secured against overturning by means of tilt-protection O.

3.7 Do not raise transformer with cradle at cradle ! (At your own risk)

Fig. 3



4. Detaching cradle

4.1 Ropes remain in the holes M

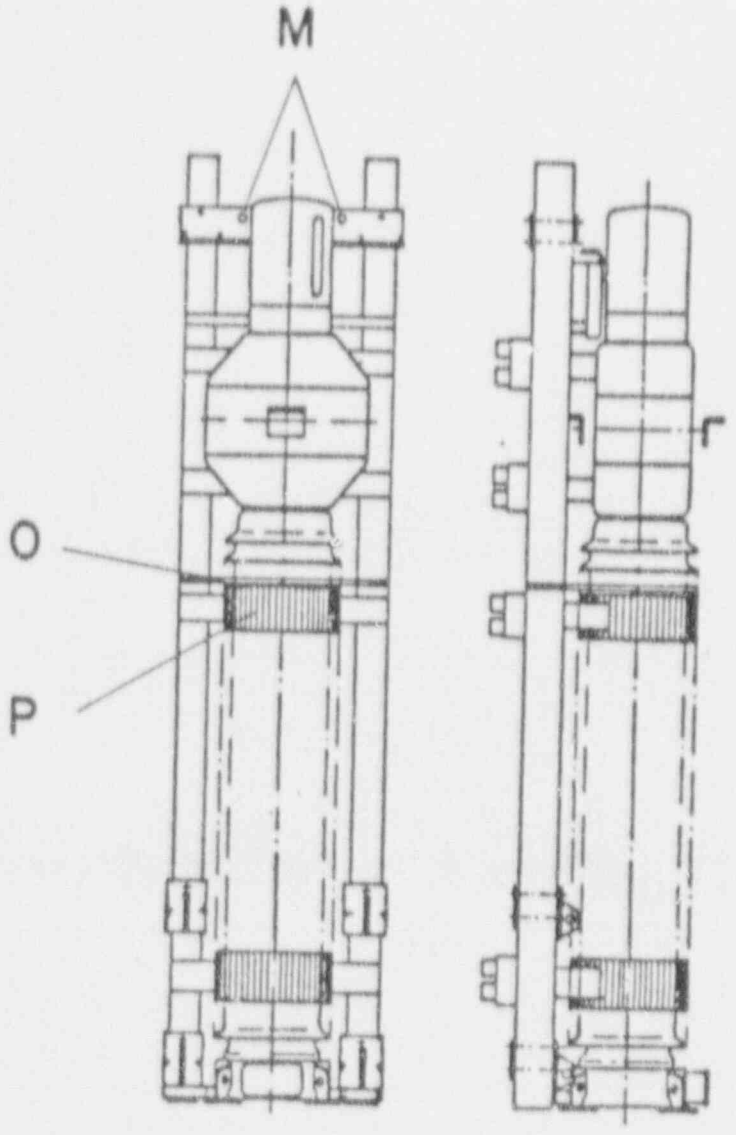
4.2 Detach tilt-protection O

4.3 Detach insulator-protection P

4.4 Remove screw connection between transformer foot and cradle

4.5 Remove cradle by crane

Fig. 4



5. Suspension

5.1 Suspension of transformer and vertical transport in accordance with Fig.

5.2 Further according to separate instructions "Erection and Operation".

Fig. 5