

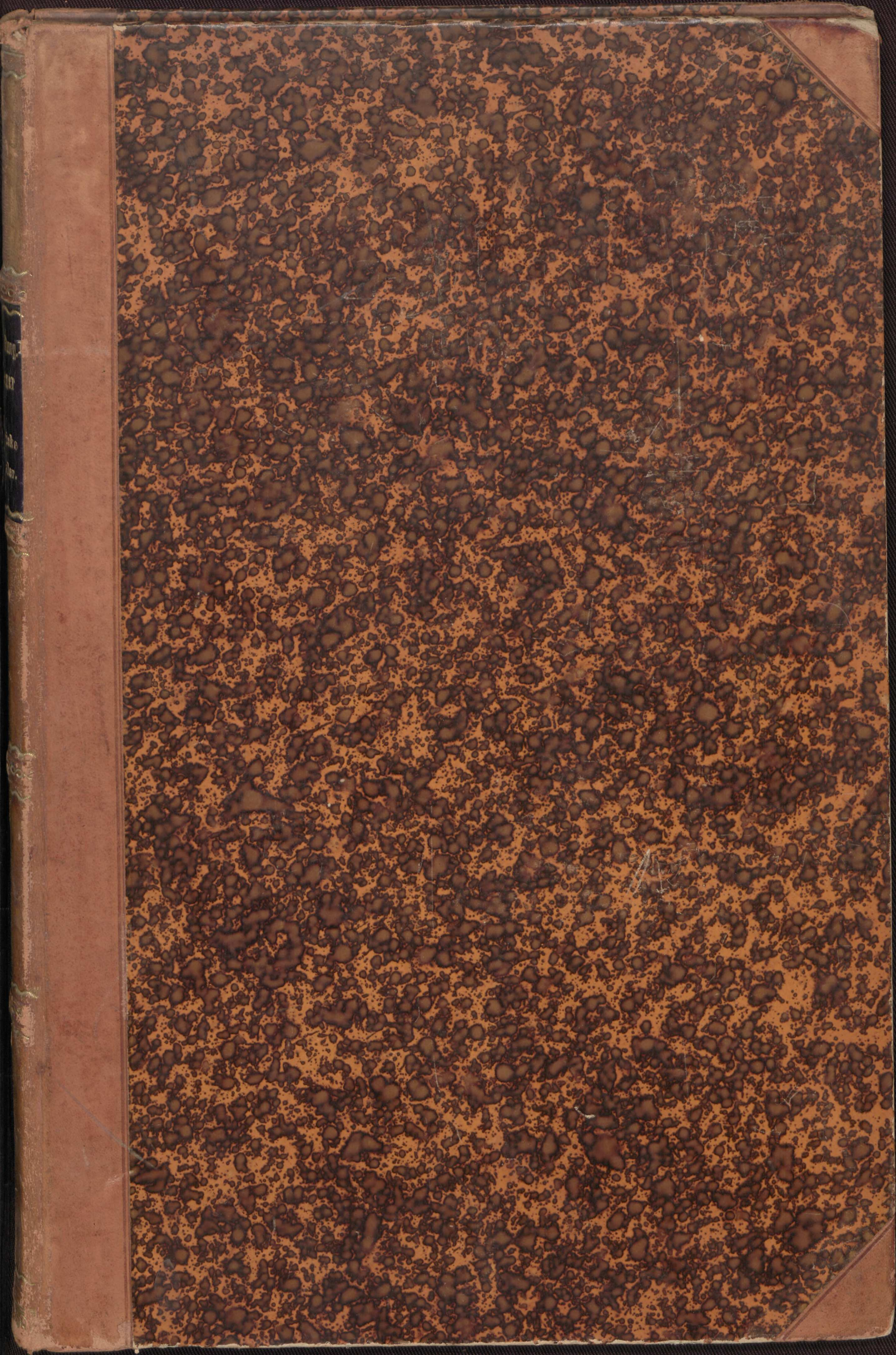
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621.3

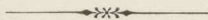


PLATE OF THE

FOURTH

ELECTRIC CATHODE

621.3

REPRODUCED FROM THE ORIGINAL IN THE POSITIVE

INDHOLDSFORTEGNELSE.

A. Jævnstrømscentraler.	
Tolederssystemer	Fig. 1— 19
Trelederssystemer	- 20— 38
Fødeledninger	- 39— 45
Eksempler paa Jævnstrømscentraler	- 46— 48
B. Vekselstrømscentraler.	
Magnetiseringsanordninger	- 49— 57
Faseindikatorer	- 58— 64
Synkronoskoper	- 65— 71
Relaiser	- 72— 79
Instrumenter og Apparater i Generatorer	- 80
Samleskinnesystemer	- 81— 88
Totalisator	- 89
Fødeledninger	- 90— 93
Spændingsregulering	- 94— 98
Isolationsprøveanordninger	- 99—107
Anordning af Relaiser i Generator- og Fødeledninger	- 108—110
C. Omformerstationer.	
Etankeromformere	- 111—119
Synkron Motorgenerator	- 120
Asynkron Motorgenerator	- 121
Kaskadeomformer	- 122
Omformere for Lys og Kraft	- 123—124
D. Eksempler paa Vekselstrømscentraler.	
Frederiksberg Elektricitetsværker	- 125—138
Københavns Elektricitetsværker	- 139—149
Nordsjællands Elektricitetsværk	- 150—154
Nordvestsjælland Elektricitetsværk	- 155—159
Transformatorstationer	- 160—162
Faaborg Elektricitetsværk	- 163—165
Udenlandske Elektricitetsværker	- 166—171
Diverse Detaljer	- 172—177
Forbindelsesskema for en Sporvogn	- 178
E. Betegnelser	- 179

A. JÆVNSTRØMSCENTRALER.

I. TOLEDERSYSTEMER.

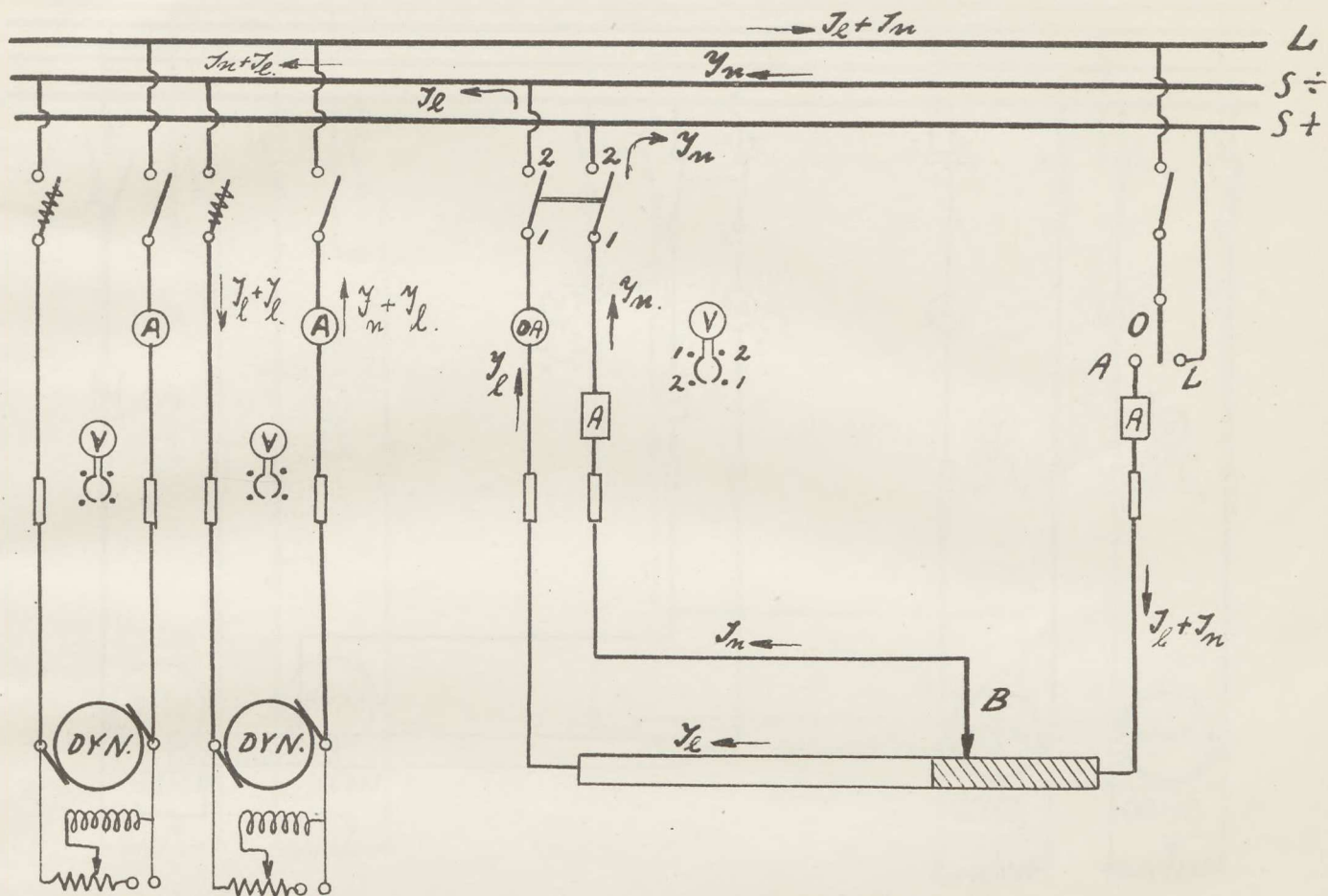


FIG. 1. DOBBELTSPÆNDINGS MASKINE. ENKELT CELLESKIFTER.

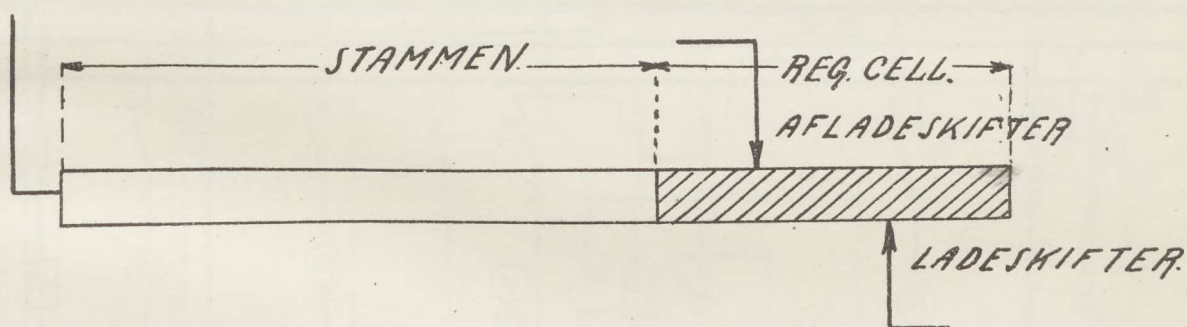


FIG. 2. DOBBELT CELLESKIFTER.

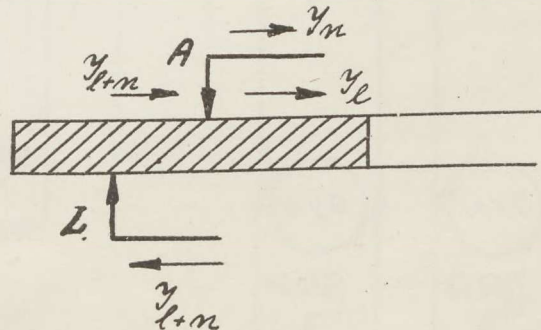
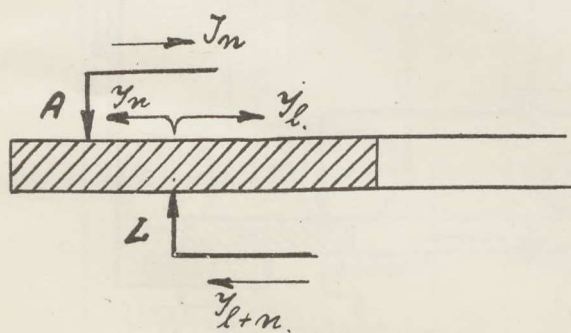


FIG. 3. URIGTIG STILLING AF CELLESKIFTER UNDER LADNING.

FIG. 4. RIGTIG STILLING AF CELLESKIFTER UNDER LADNING.

DOBBELTSPENDINGSMASKINE. DOBBELT CELLESKIFTER.

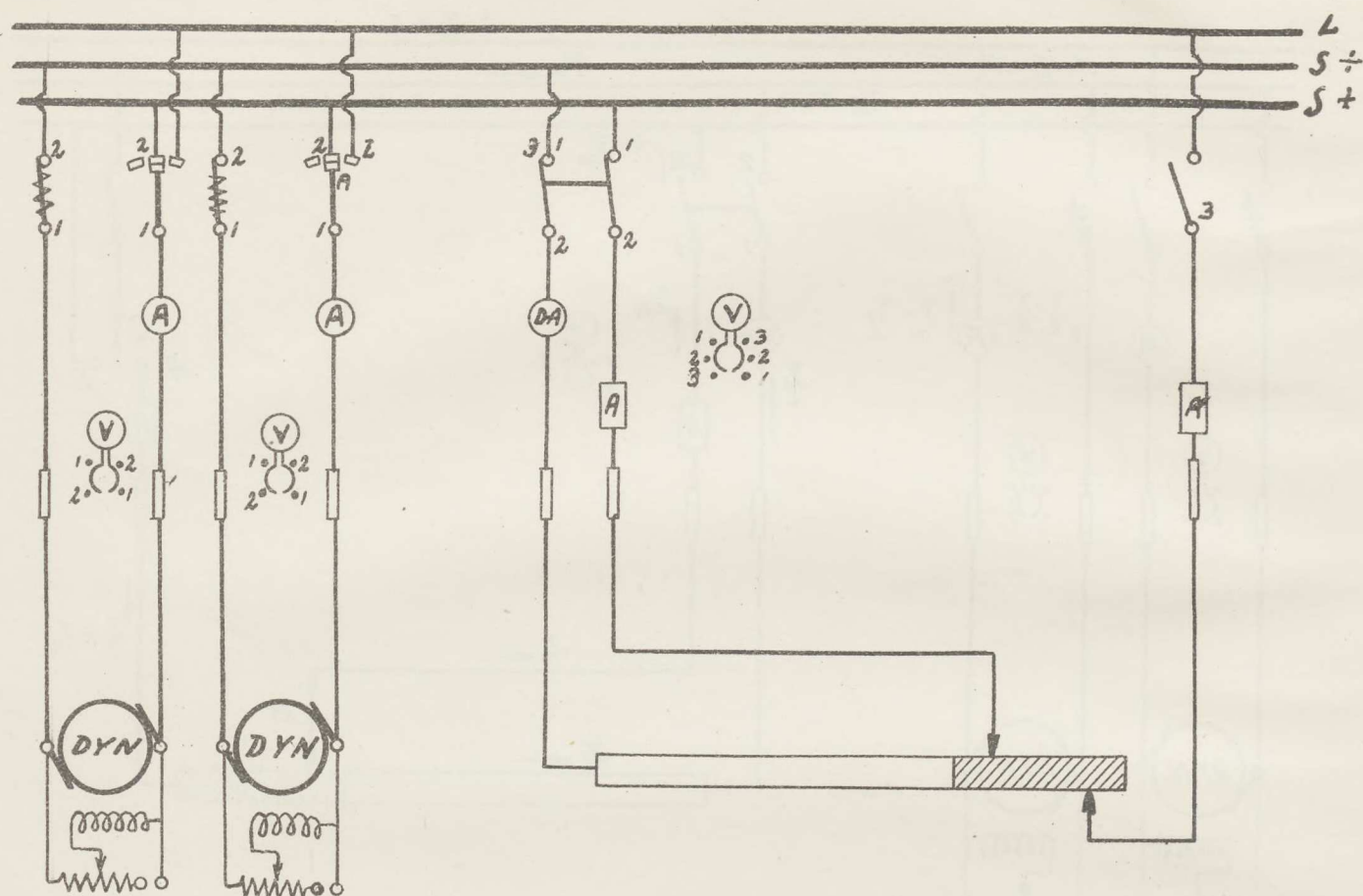


FIG. 5. AFLADESTILLING.

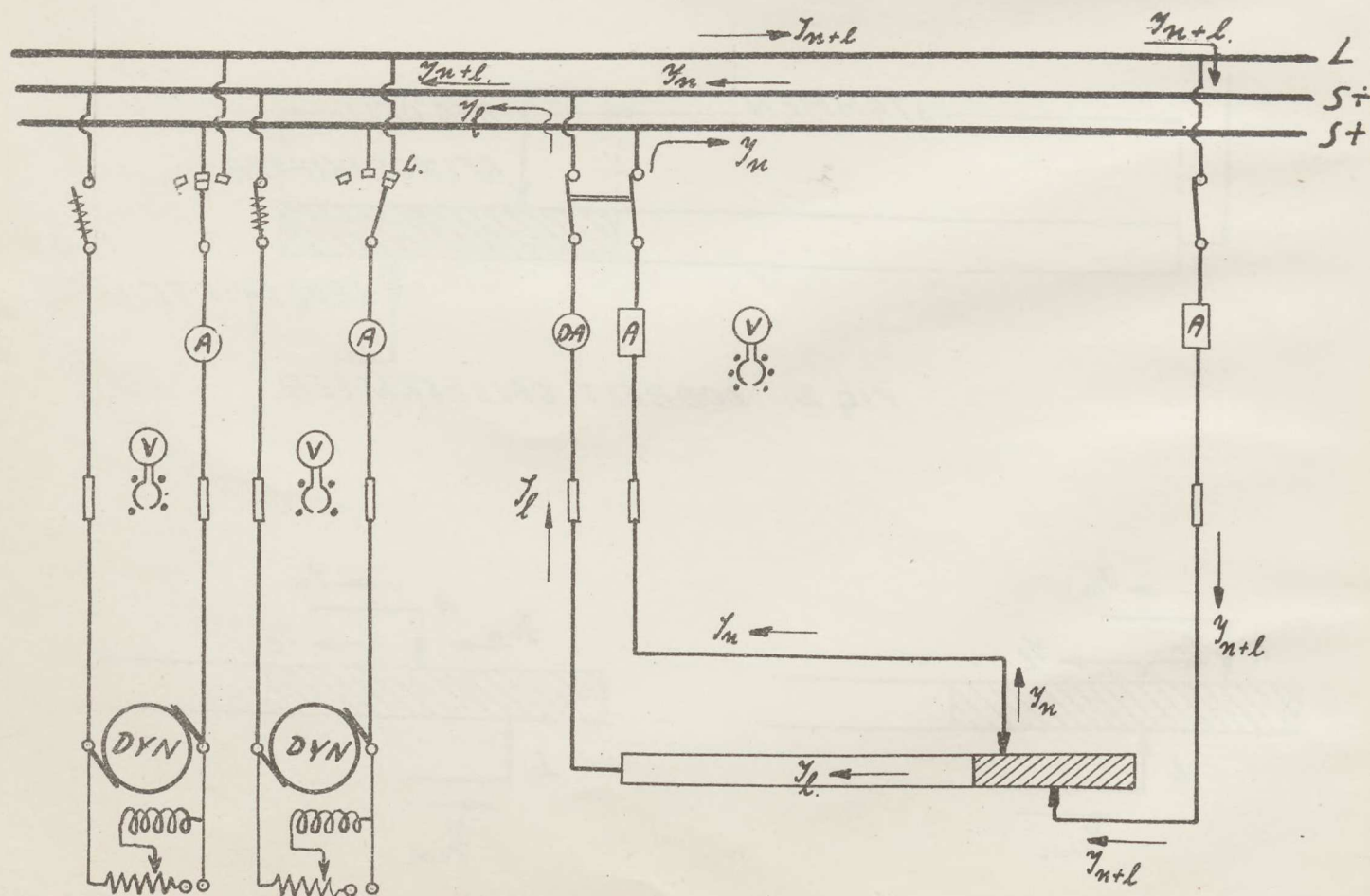


FIG. 6. LADESTILLING.

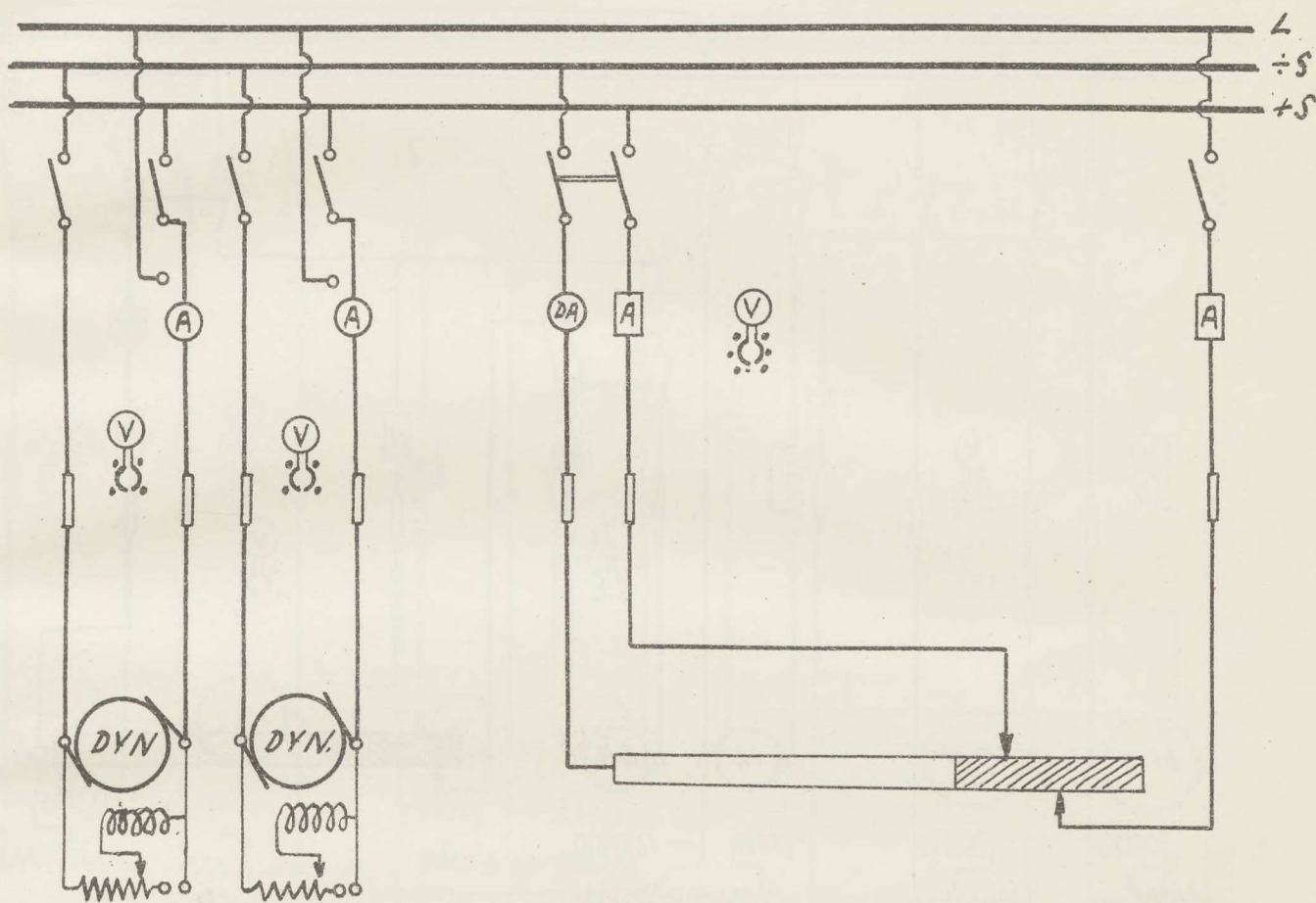


FIG. 7. DOBBELTSPENDINGSMASKINE. DOBBELT CELLESKIFTER

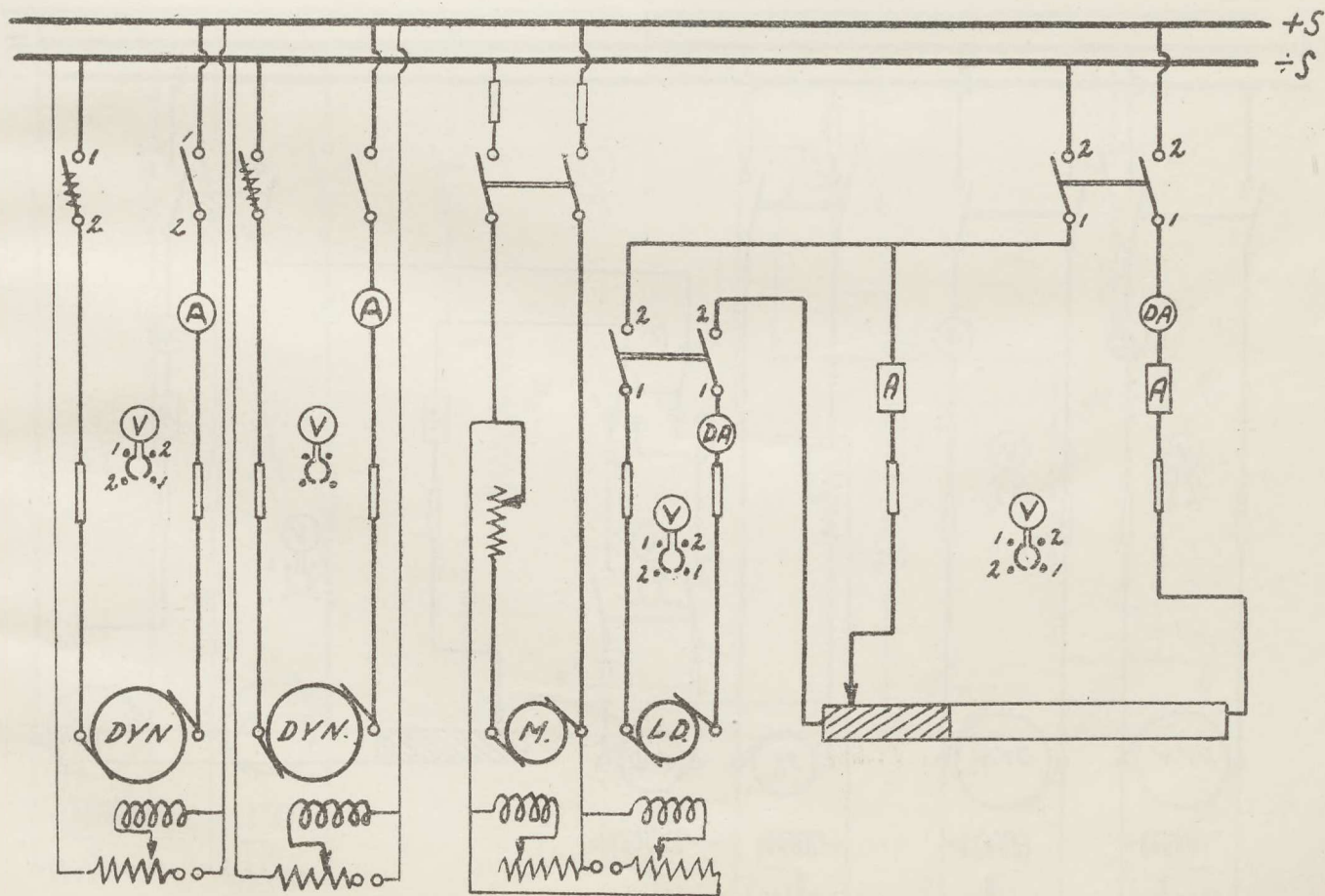


FIG. 8. LADEDYNAMO I GRUPPEKOBLING. ENKELT CELLESKIFTER.

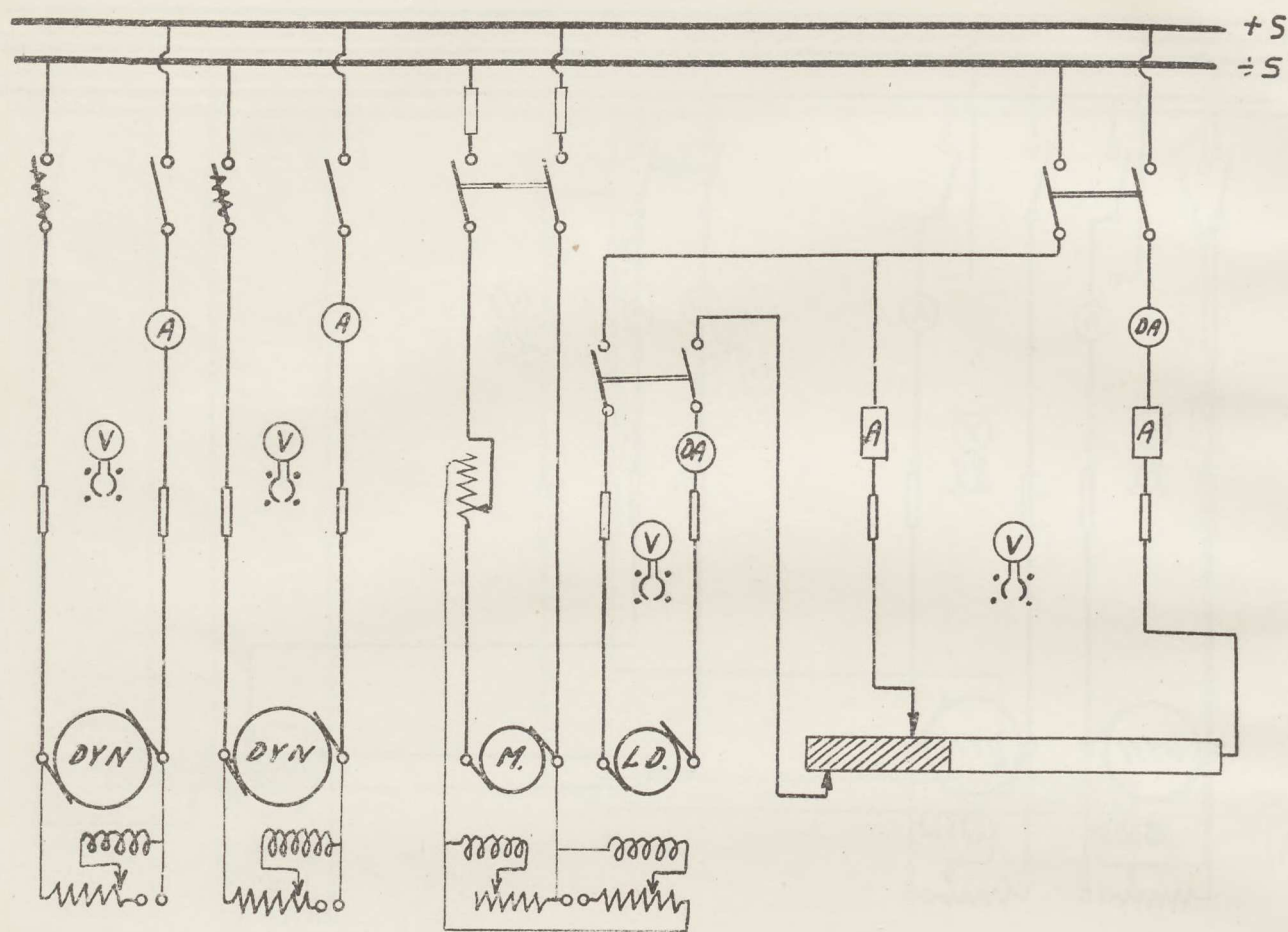


FIG. 9. LADEDYNAMO I GRUPPEKOBLING. DOBBELT CELLESKIFTER.

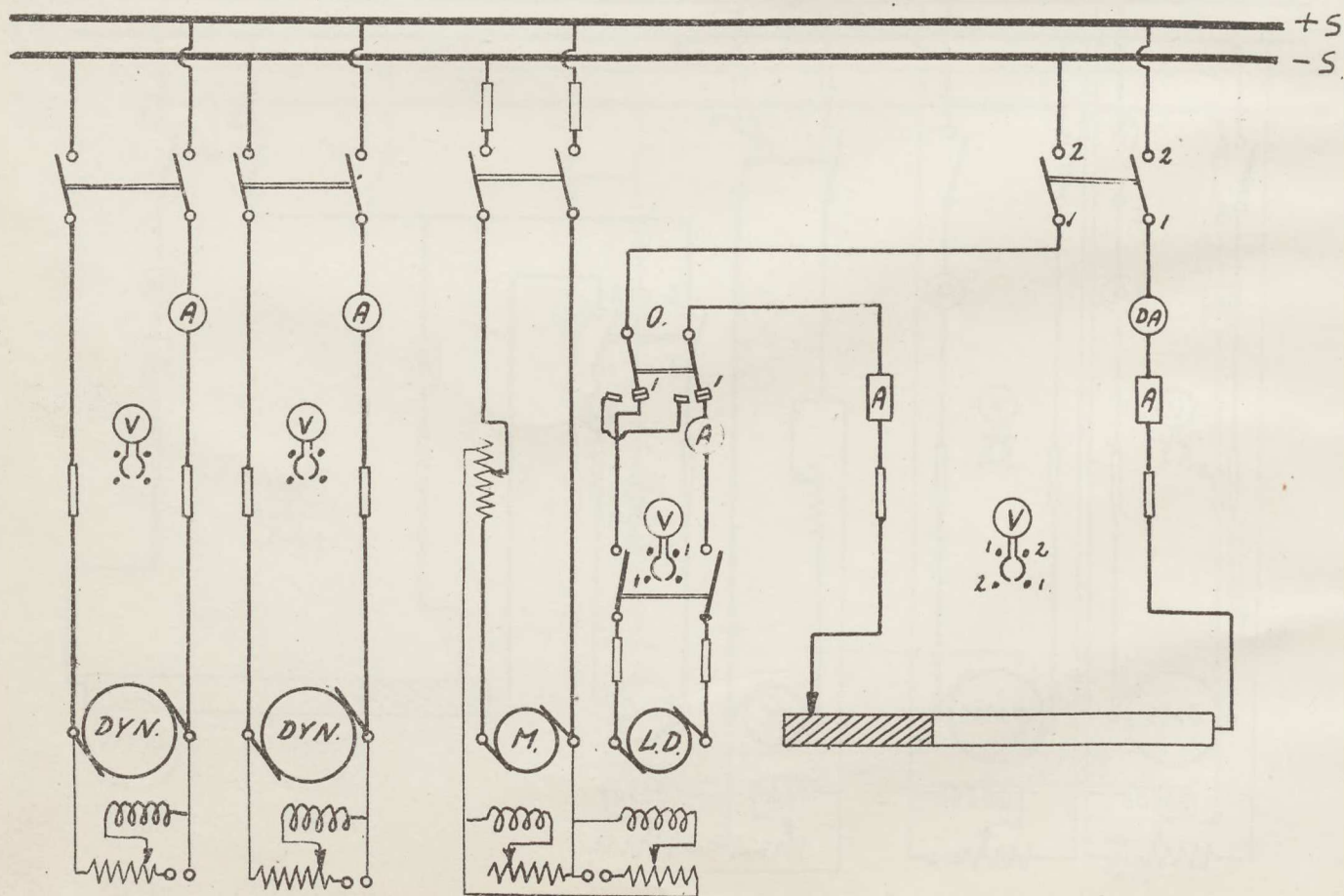


FIG. 10. LADEDYNAMO I SERIEKOBLING. ENKELT CELLESKIFTER

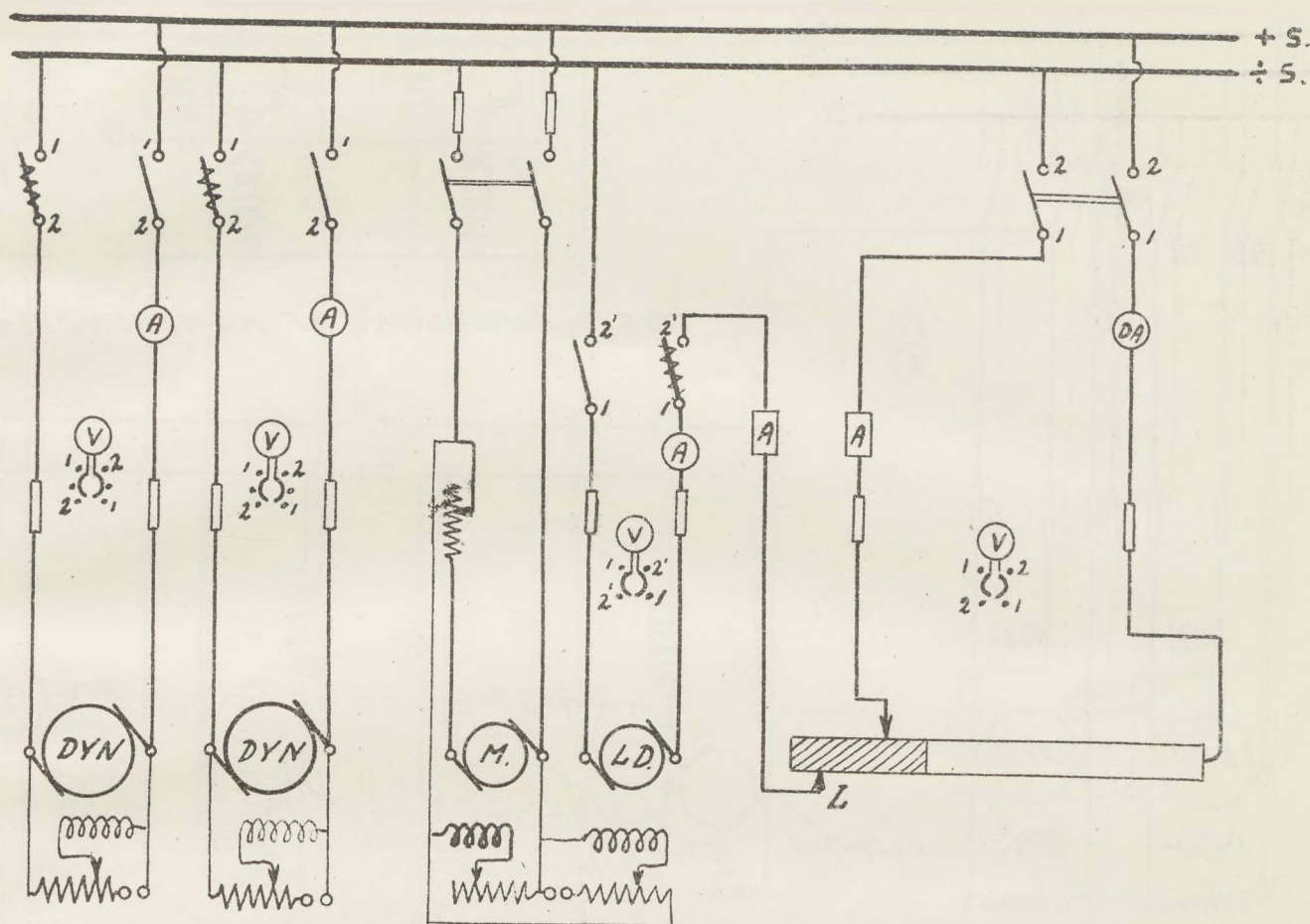


FIG. 11. LADED DYNAMO I SERIEKOBLING. DOBBELT CELLESKIFTER

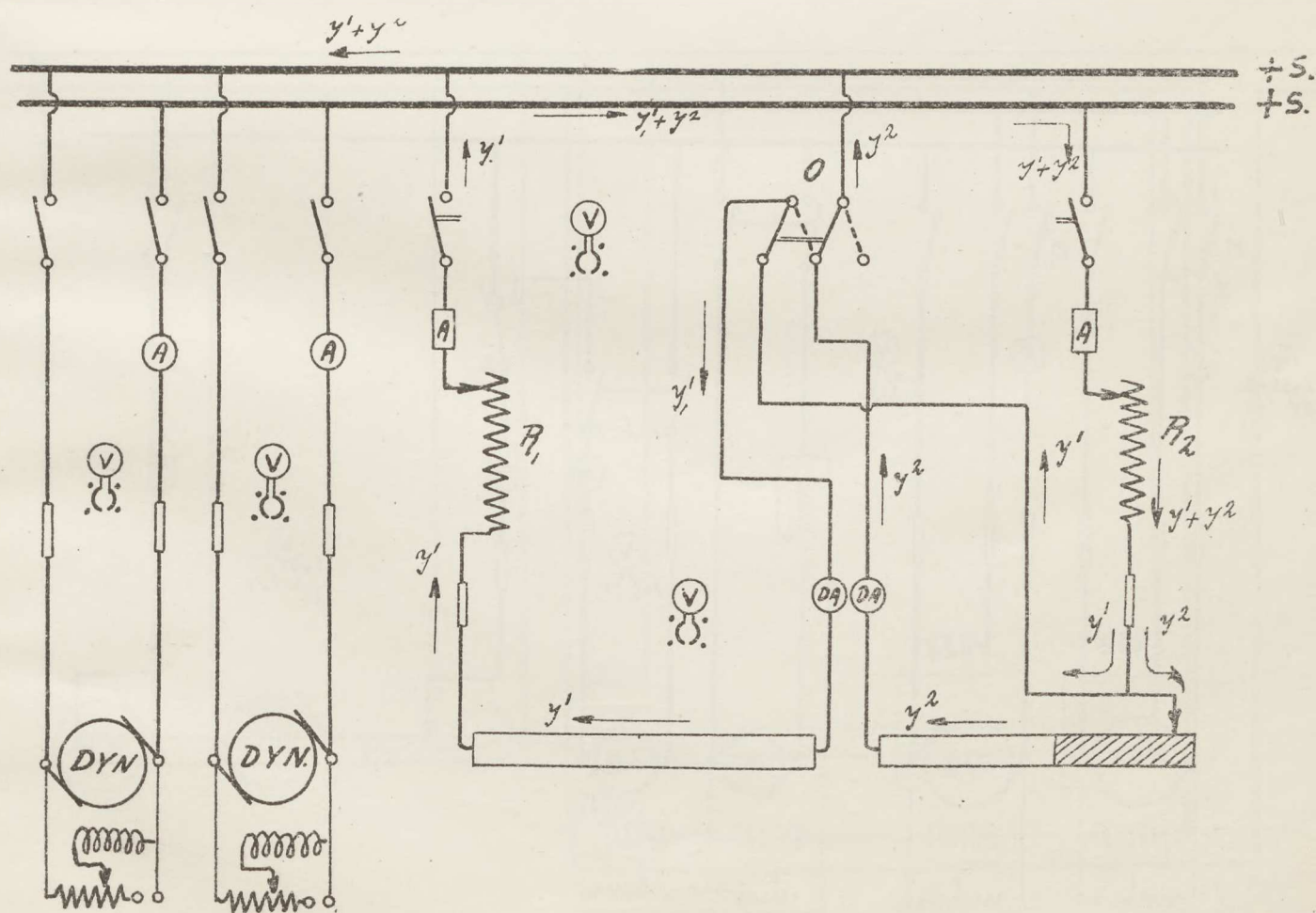


FIG. 12. OPLADNING AF BATTERI I TO HALVDELE.

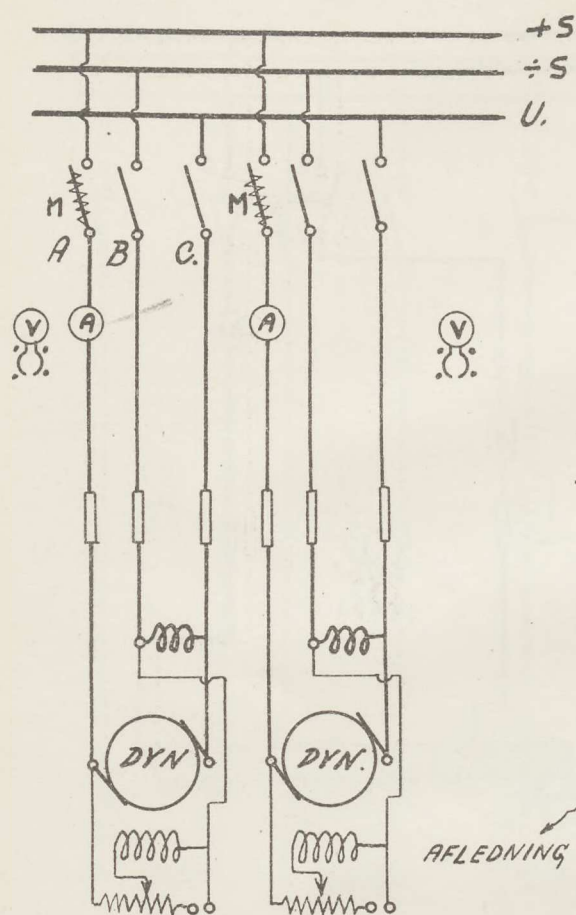


FIG. 13. KOMPOUNDDYNAMO, PARALLELLE.

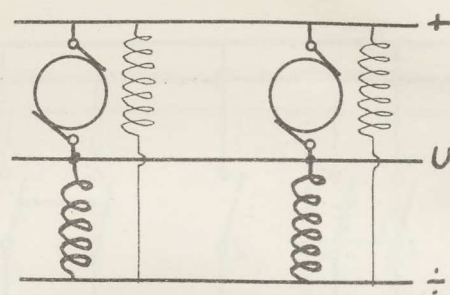


FIG. 14. ANORDNING AF KOMPOUNDEVIKLING.

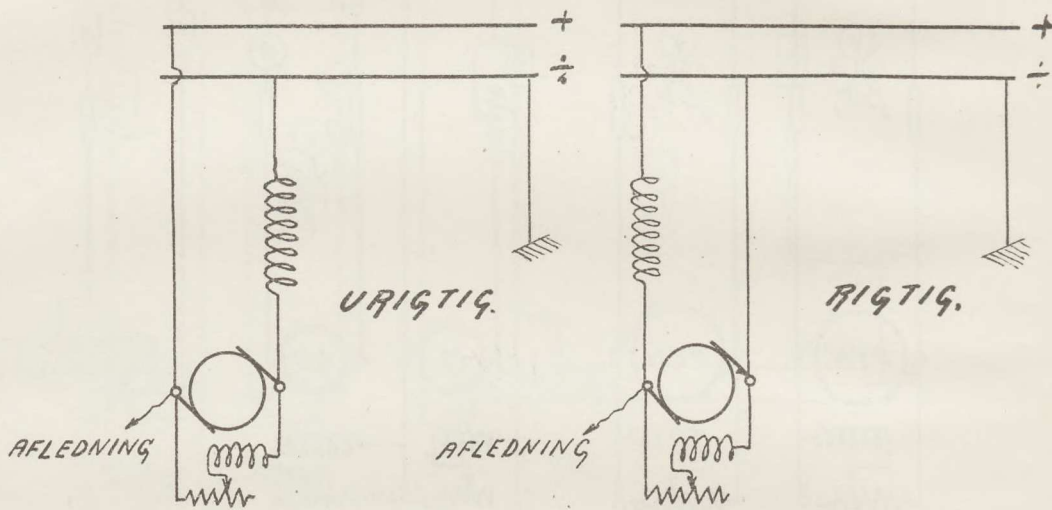


FIG. 15. KOMPOUNDDYNAMO, MED EN JORDFORBUNDEN POL.

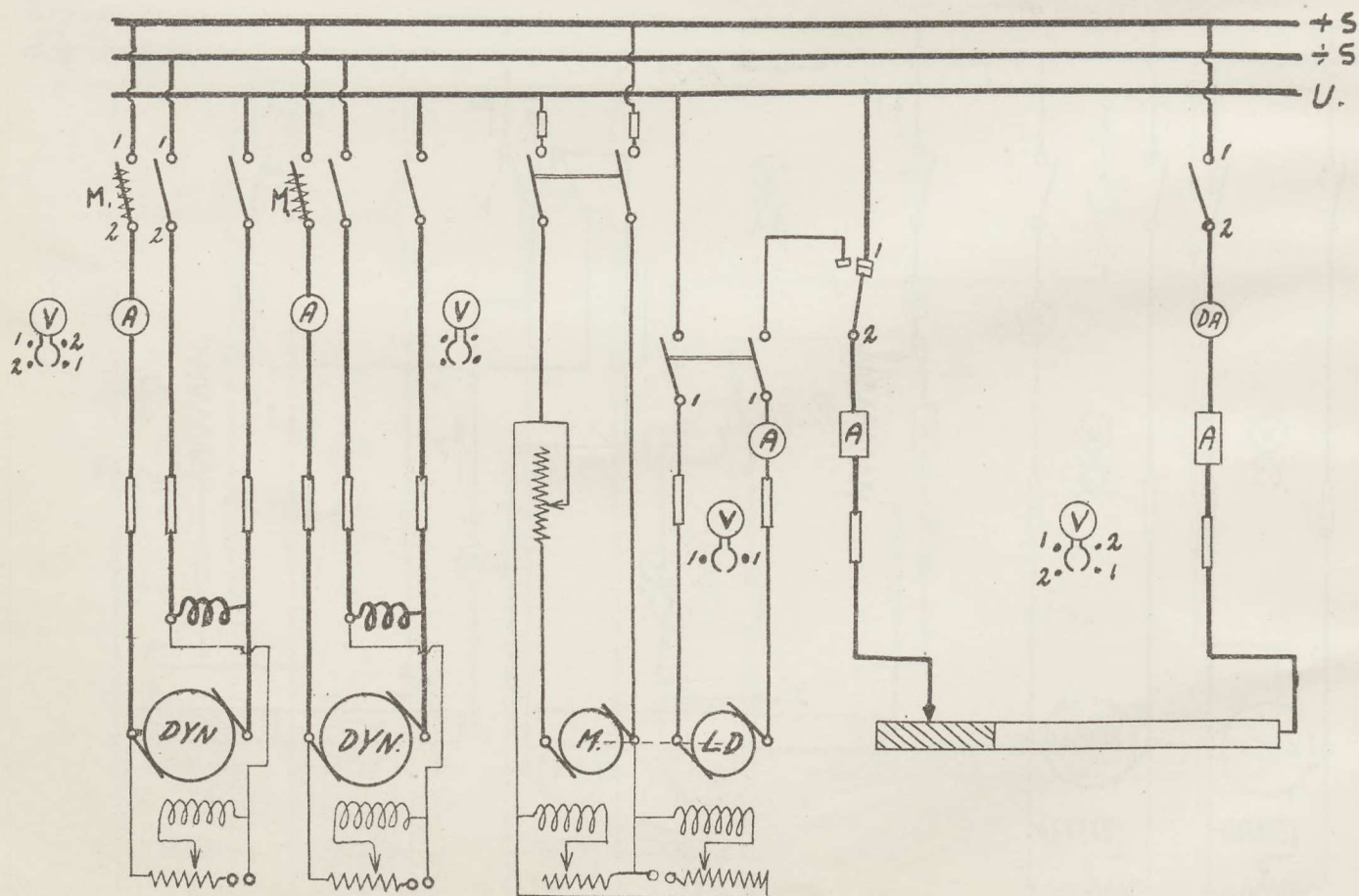


FIG. 16. KOMPOUNDDYNAMO MED BATTERI.

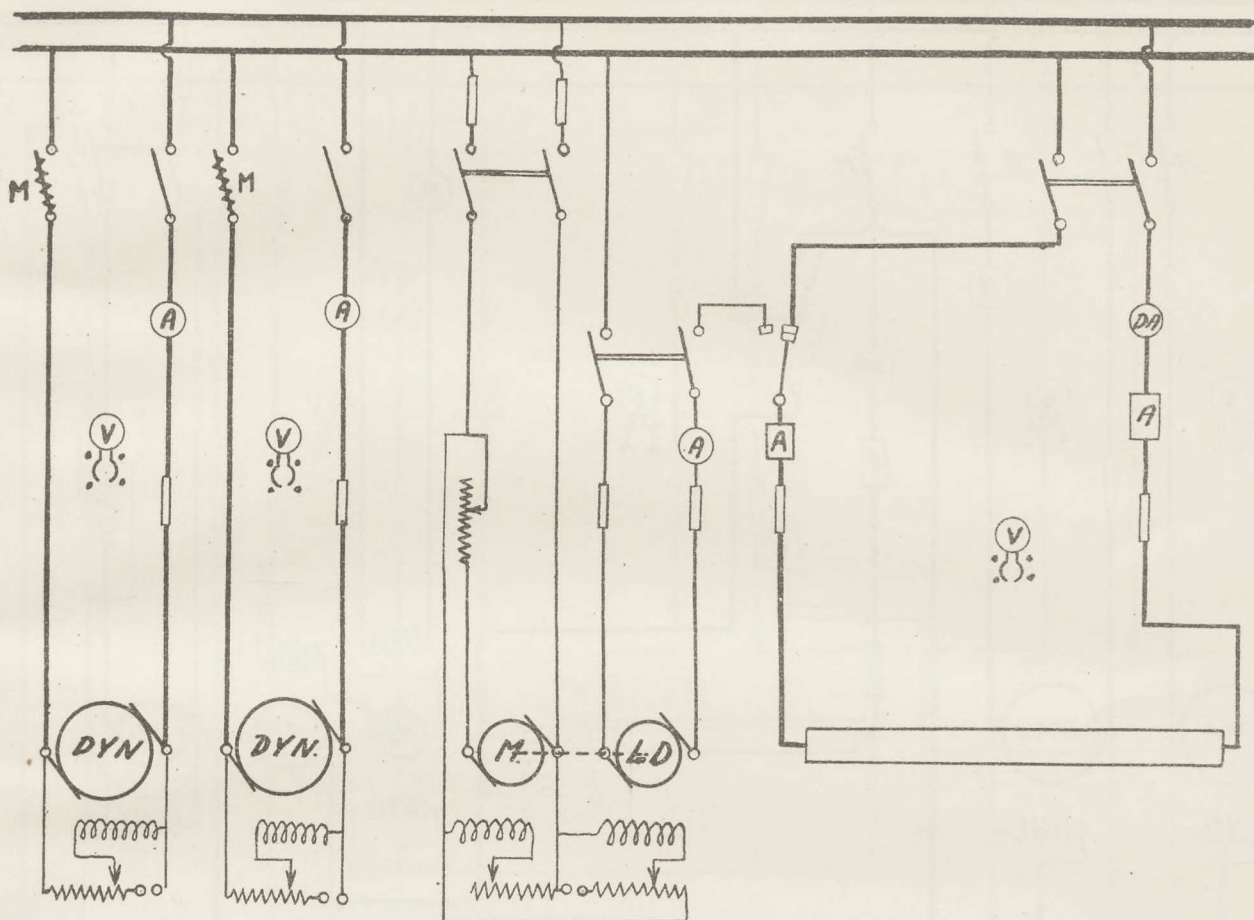


FIG. 17. PUFFERBATTERI MED LADETRANSFORMATOR.

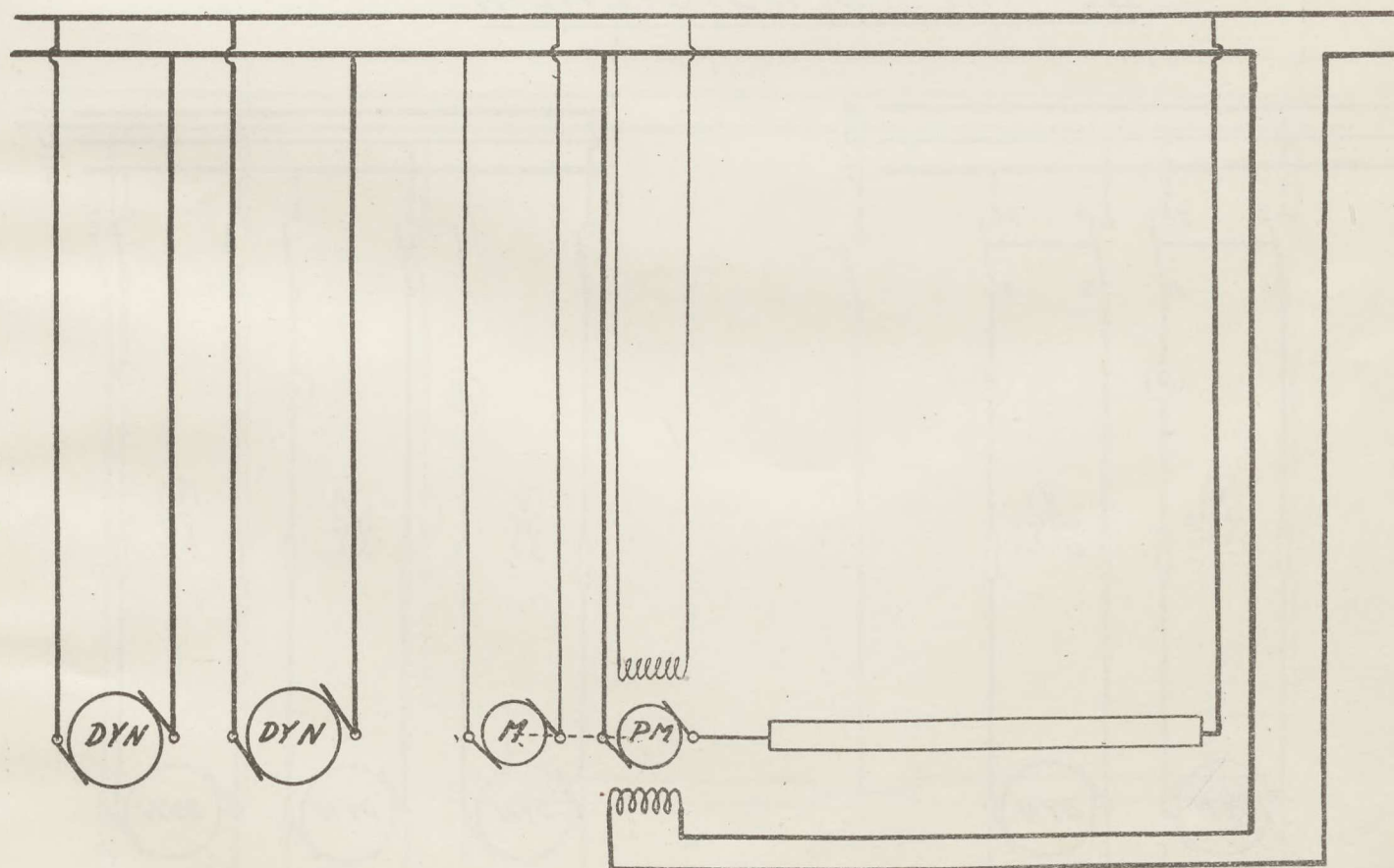


FIG. 18. PUFFERBATTERI MED BOOSTER (PIRANI)

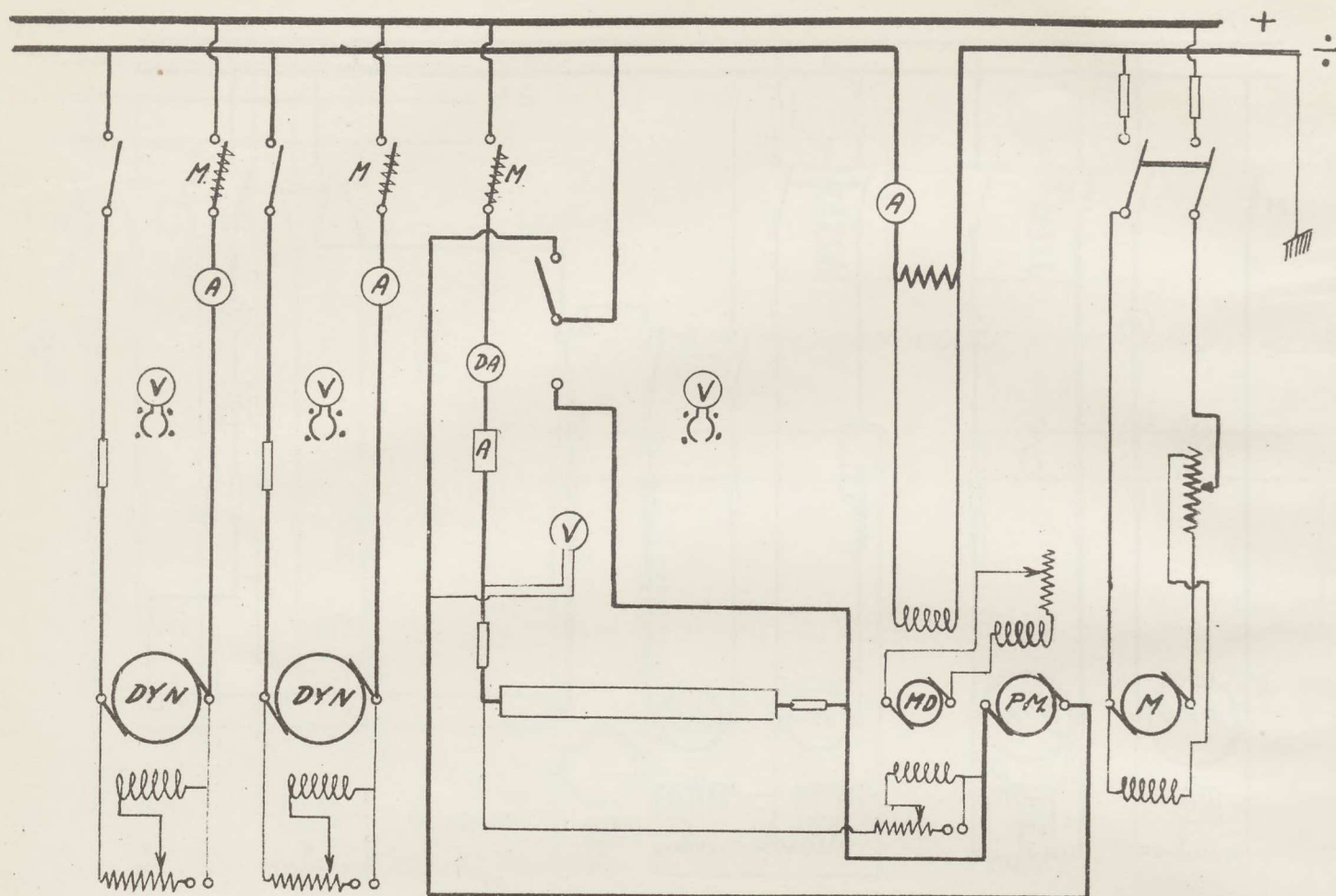


FIG.19. PIRANI-BOOSTER MED DIREKTE KOBLET MAGNETISERINGSMASKINE

II. TRELEDERSYSTEMER.

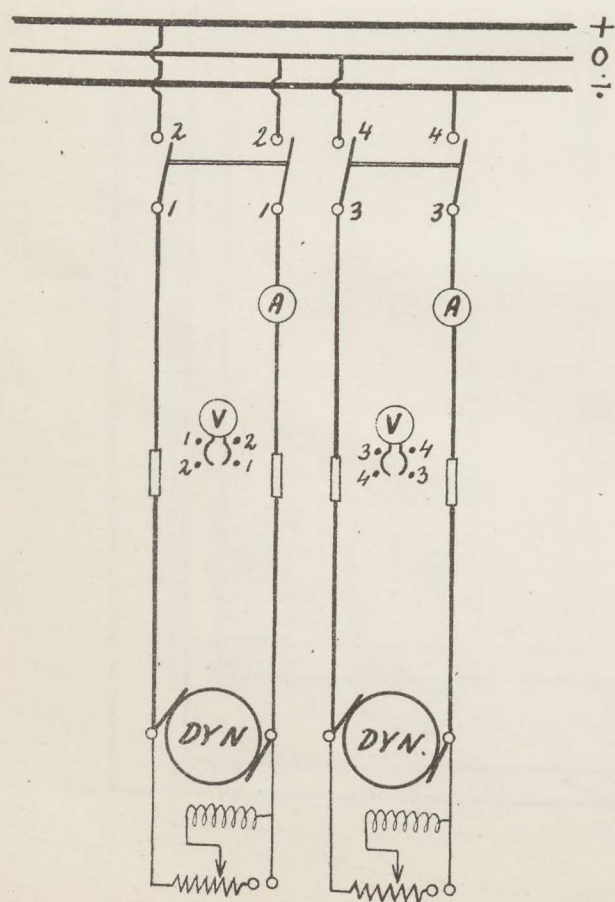


FIG.20. DYNAMO TIL HALV SPENDING.

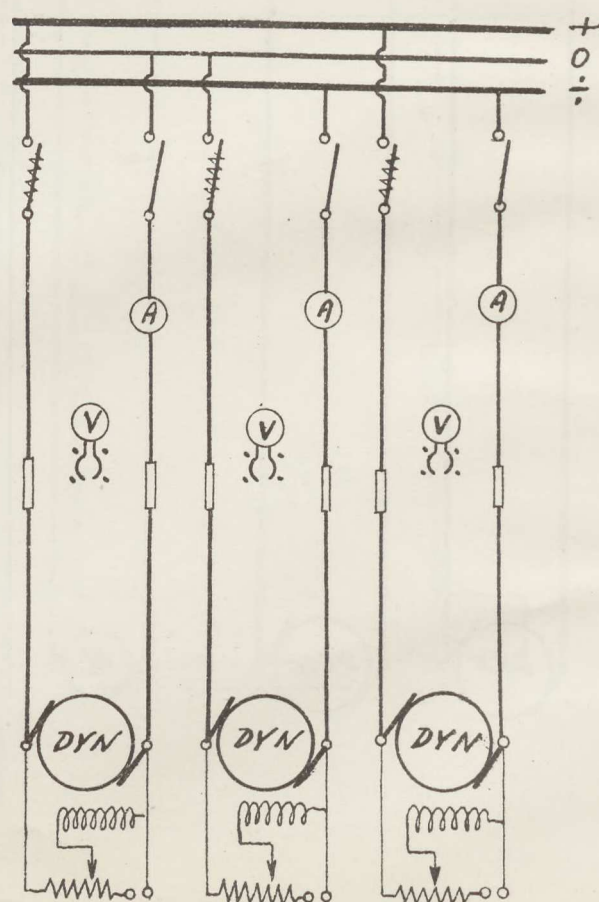


FIG.21. BLANDET SYSTEM.

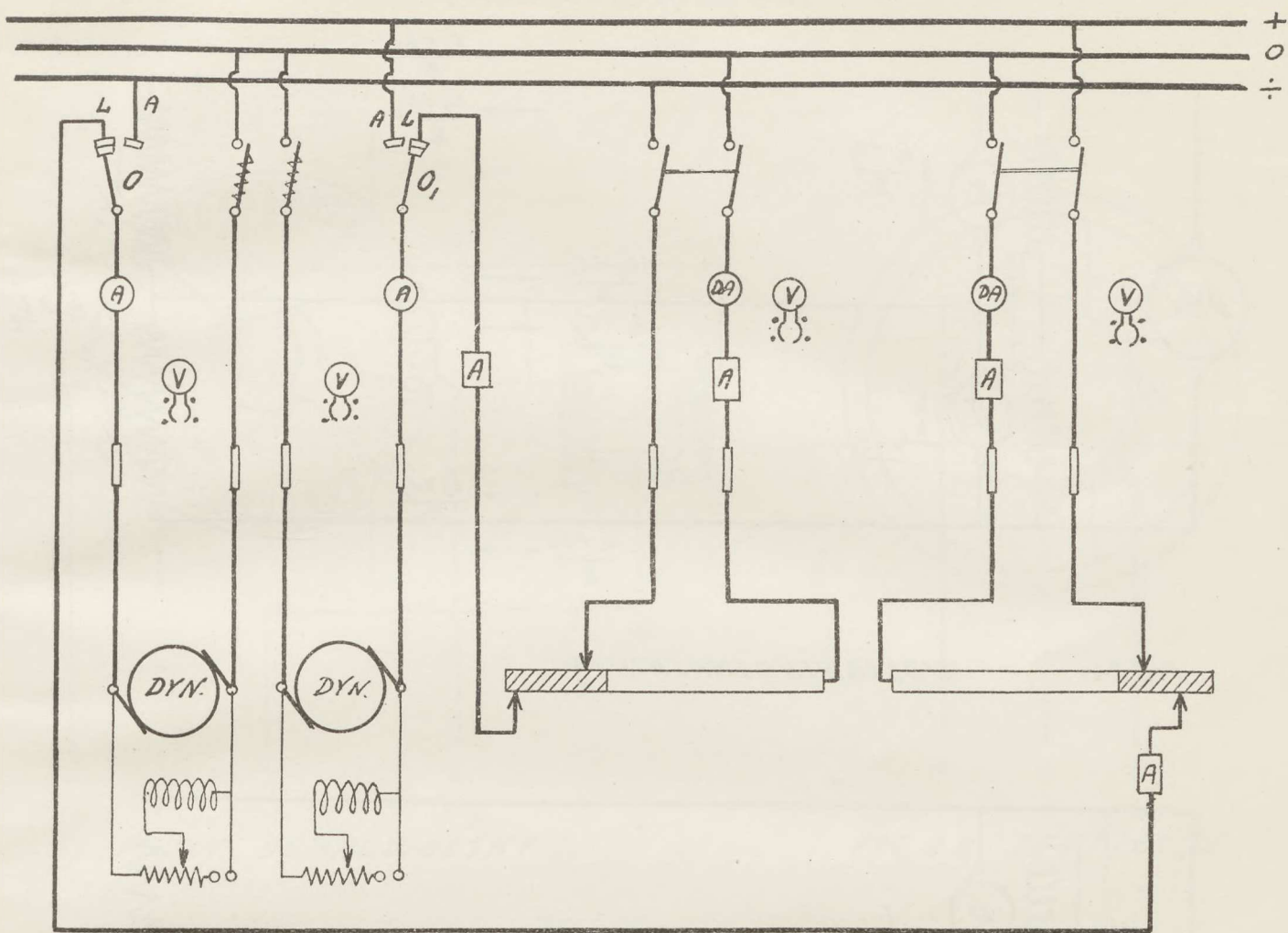


FIG. 22. DYNAMOER TIL HALV SPENDING MED BATTERI.

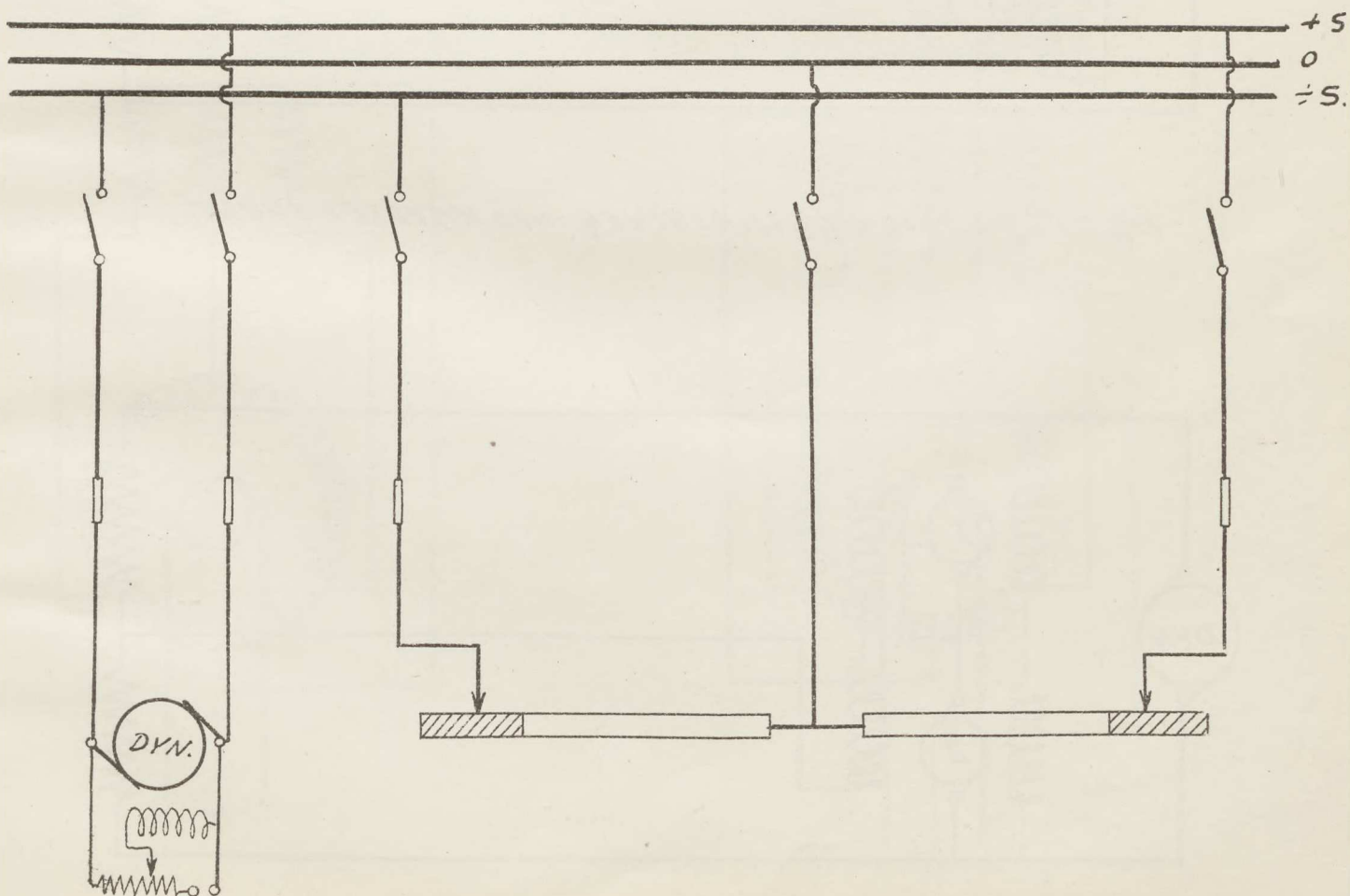


FIG. 23. SPENDINGSEDELING VED BATTERI.

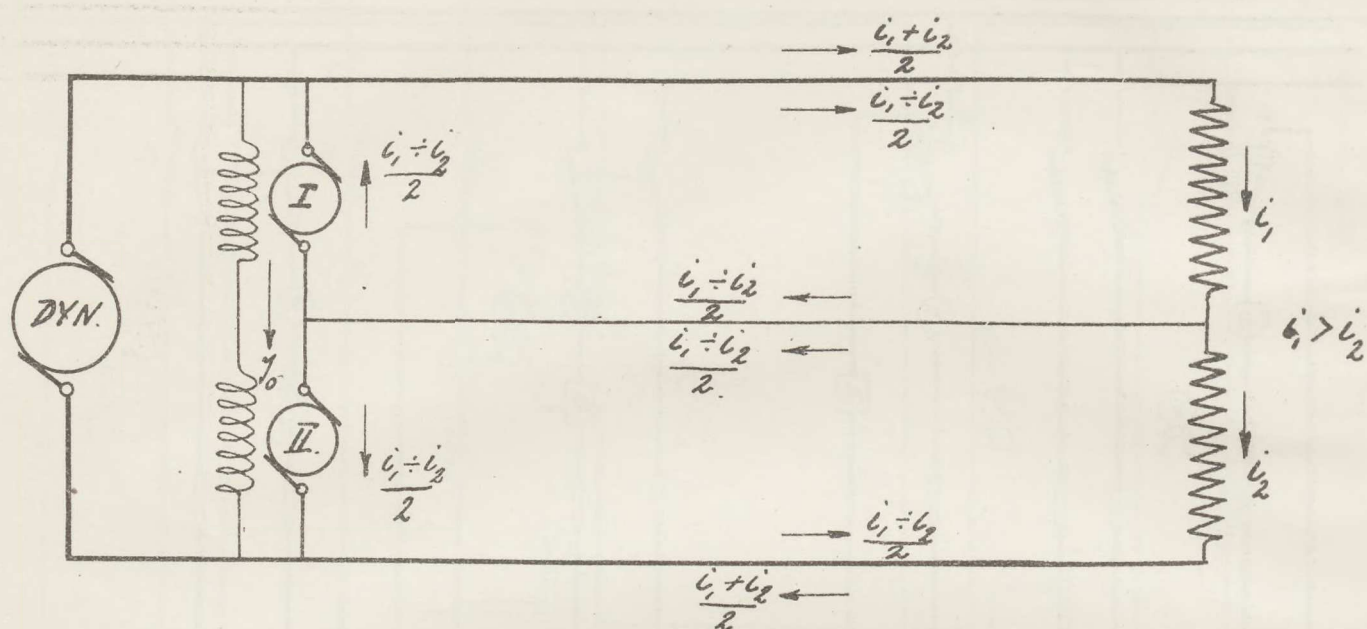


FIG. 24. UDLIGNINGSMASKINER.

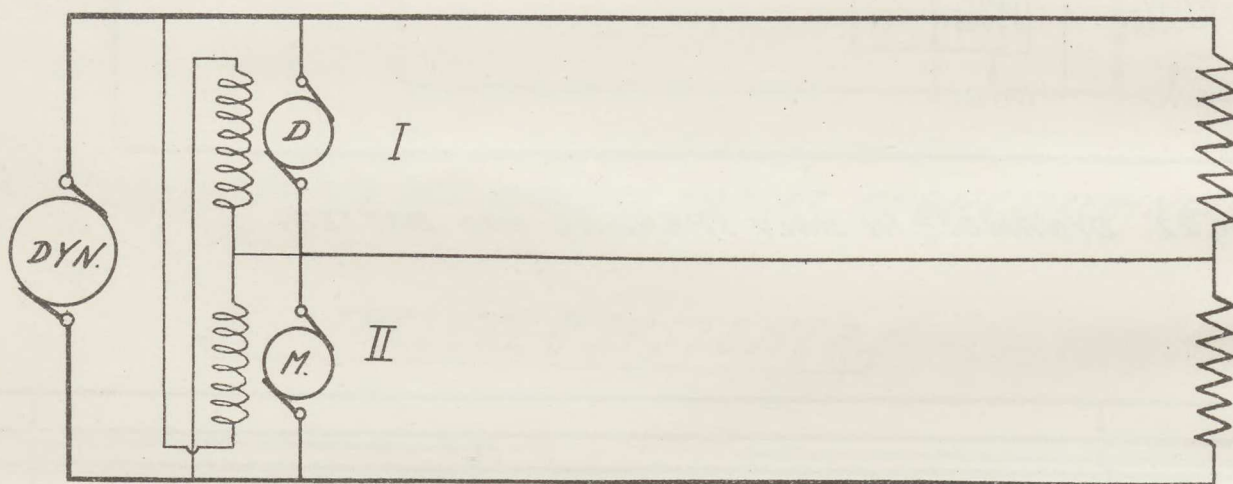
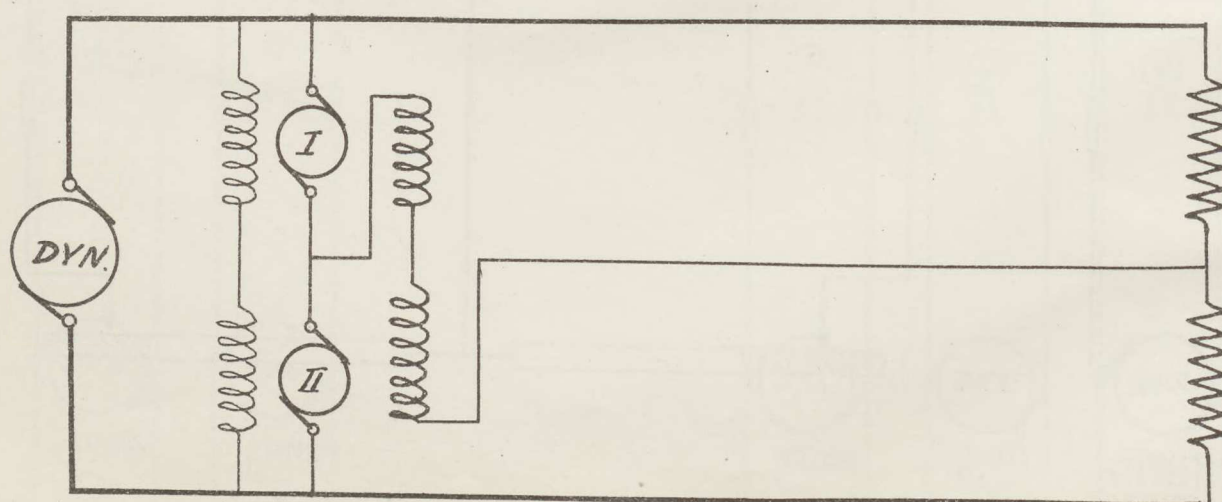


FIG. 25. UDLIGNINGSMASKINER MED KRYDSET SHUNT.



SPÆNDINGSDELERE:

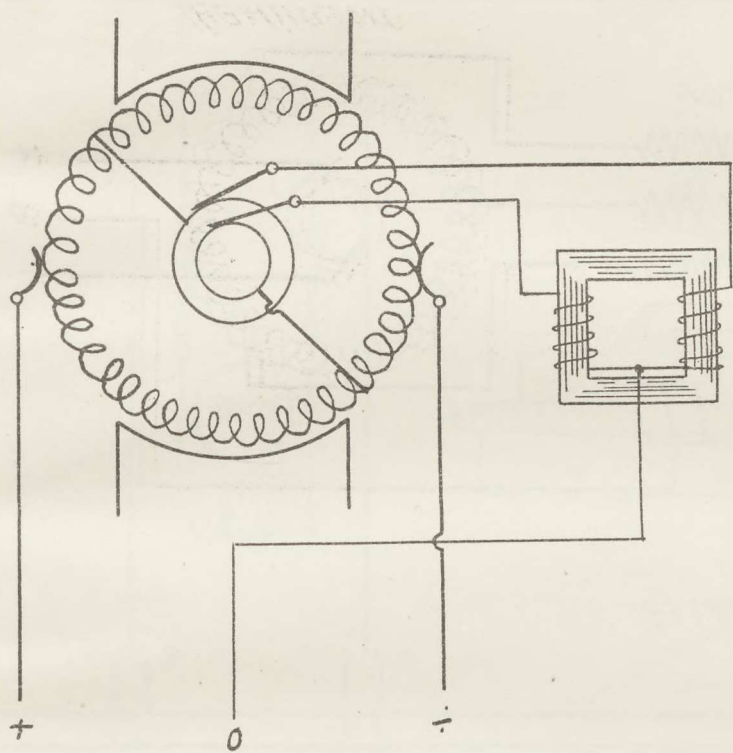


FIG. 27. DOBROWOLSKY'S.

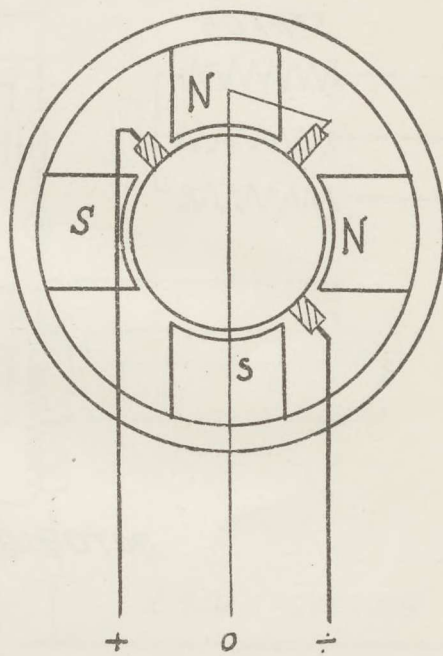


FIG. 28. DETTMARS.

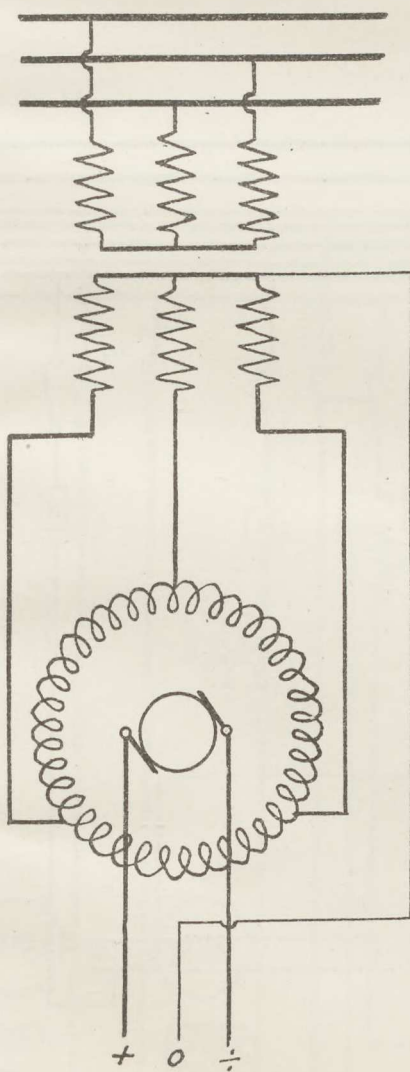


FIG. 29. VED 3-FASE-OMFORMER.

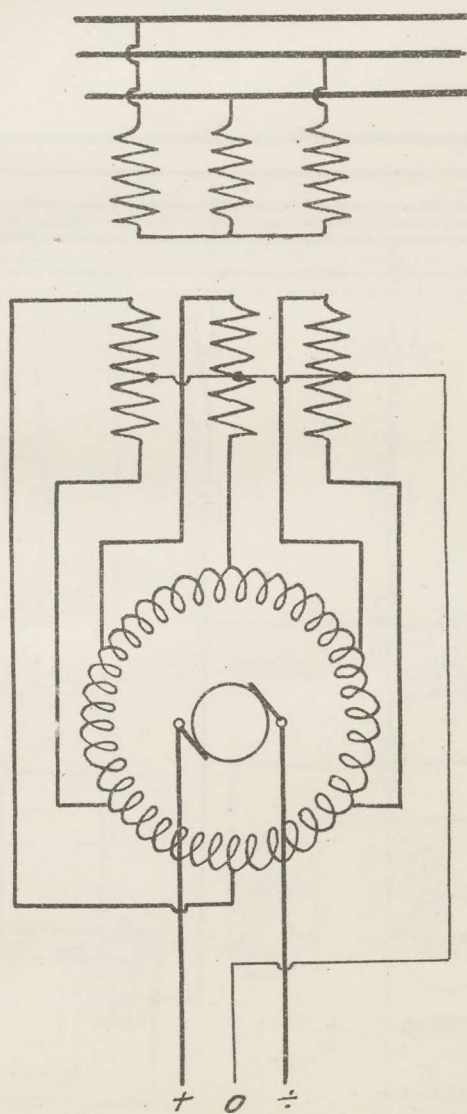


FIG. 30. VED 6-FASE OMFORMER.

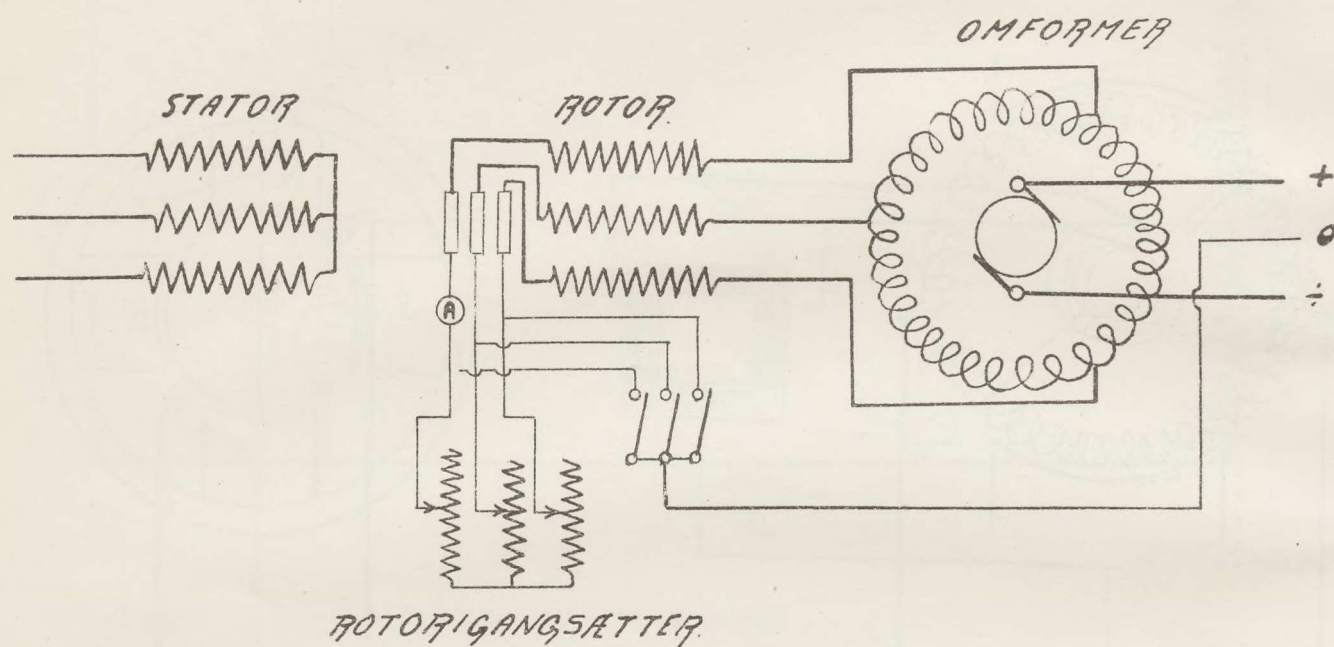


FIG. 31. SPENDINGSEDELING VED KASKADEOMFORMER.

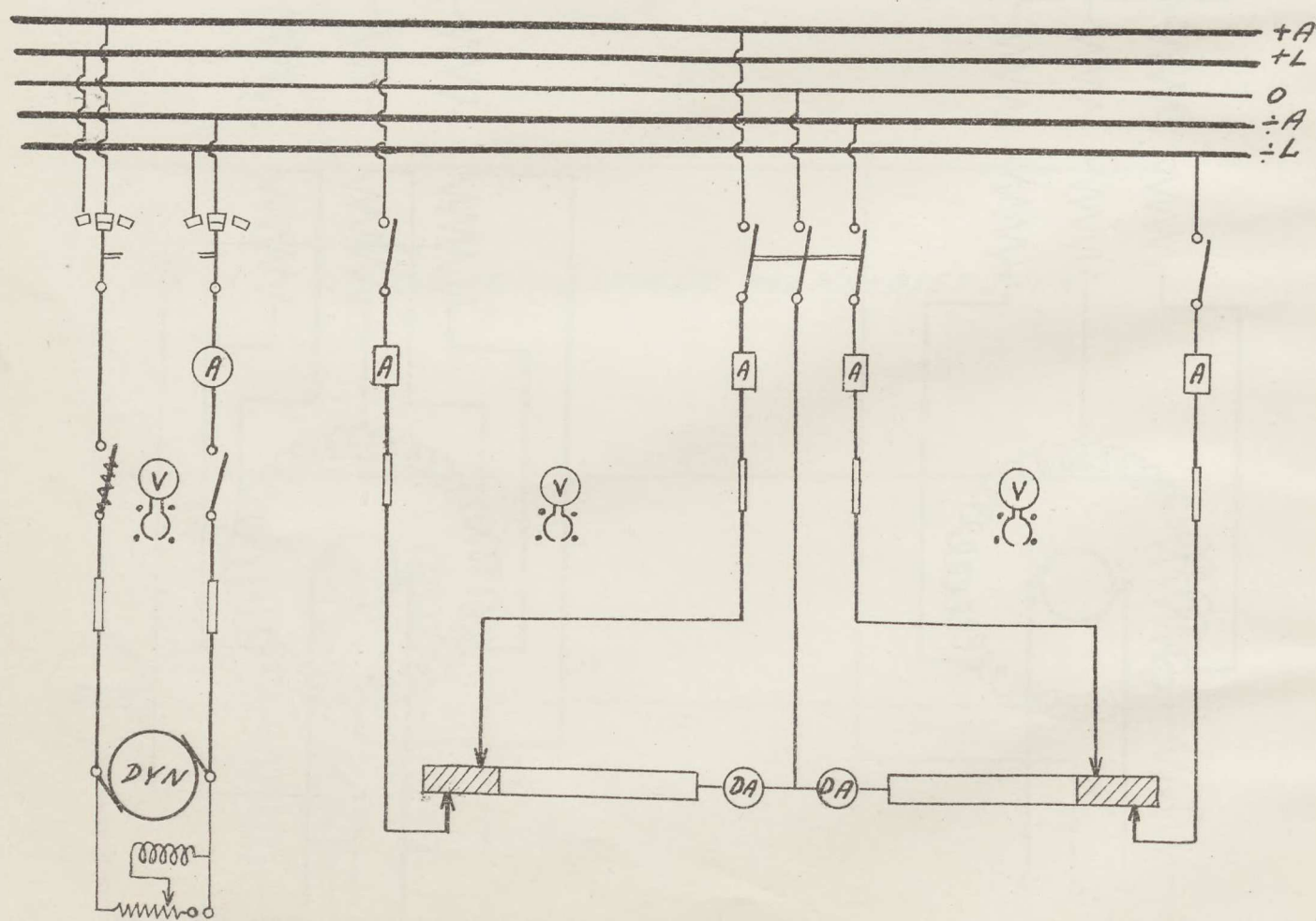


FIG. 32. DOBBELTSPENDINGSMASKINE MED. AKK.-BATTERI.

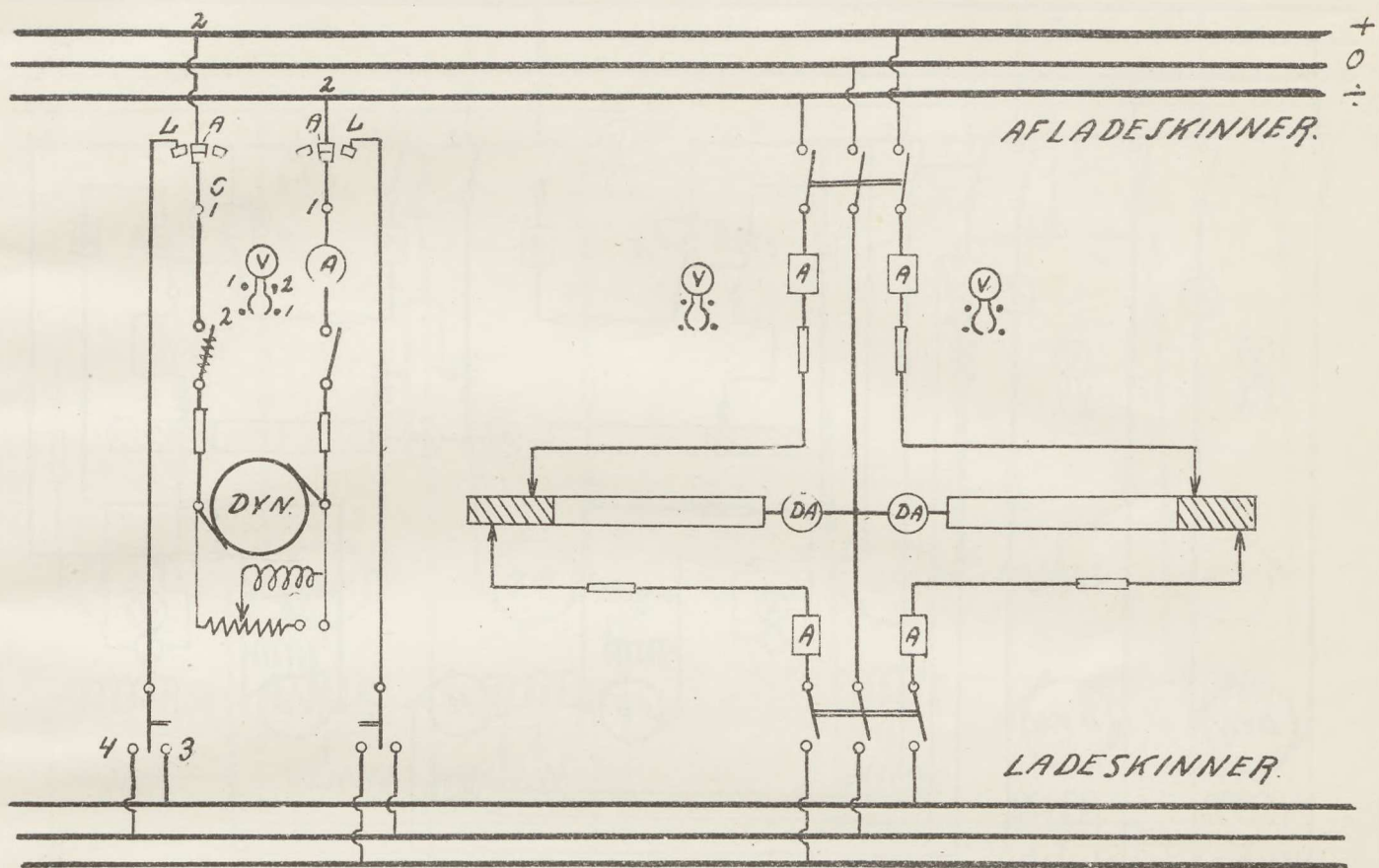


FIG. 33. DOBBELTSPENDINGSMASKINE MED AKK-BATTERI OG TO NULSKINNER.

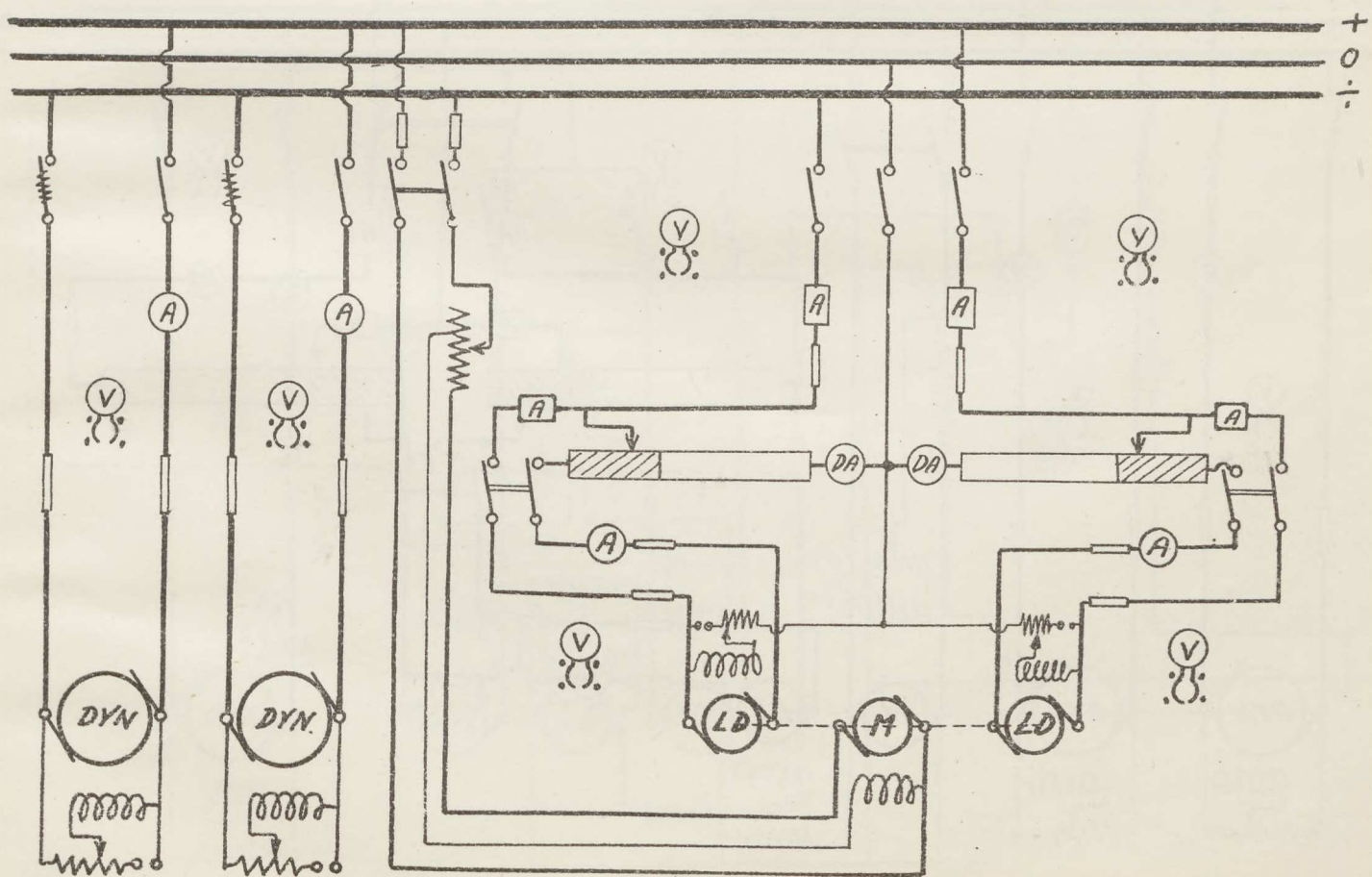


FIG. 34. DYNAMOER TIL HEL SPENDING. 2 LADEDYNAMOER I GRUPPEKOBLING.

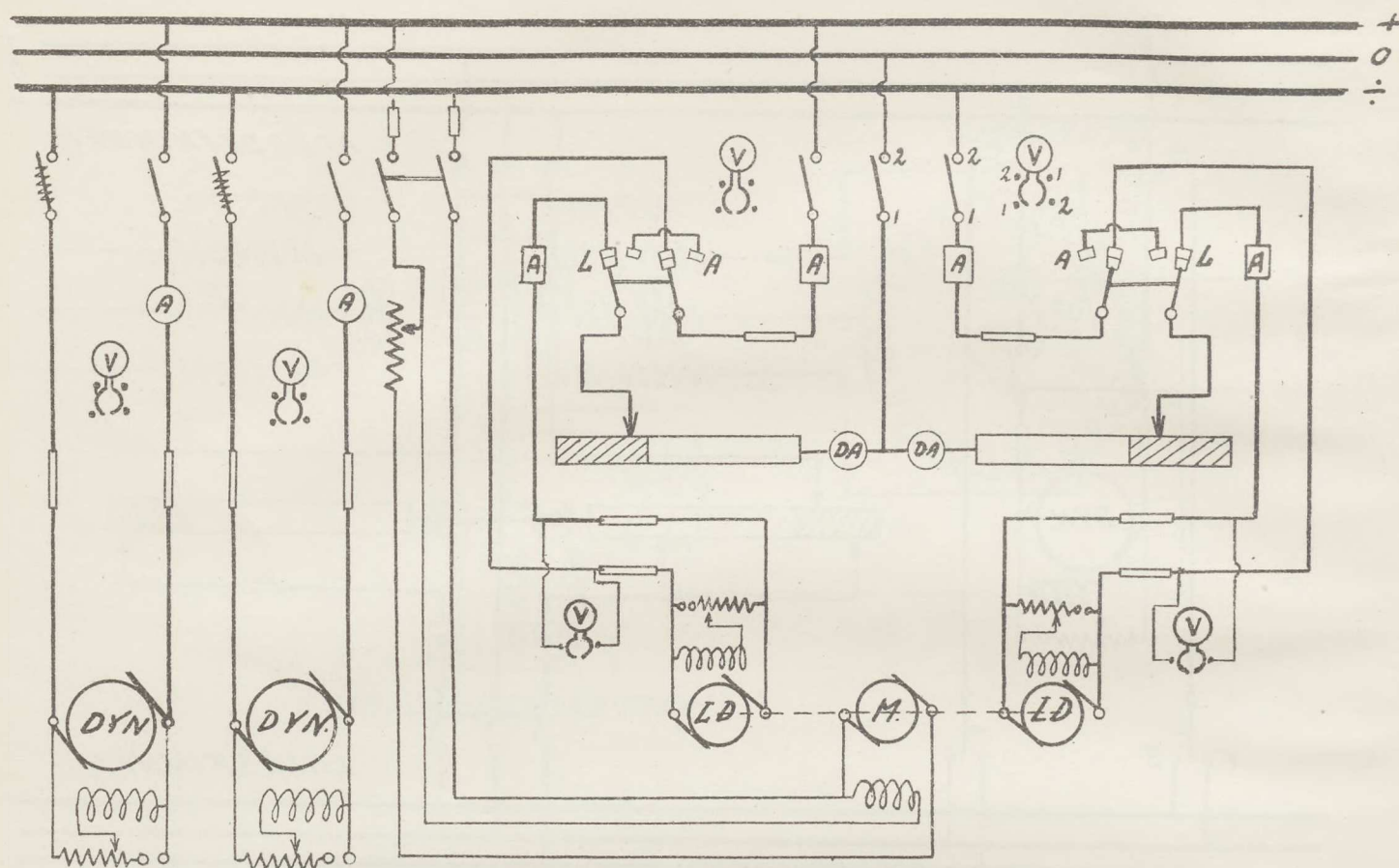


FIG. 35. DYNAMOER TIL HEL SPENDING. LADEDYNAMOER I SERIEKOBLING.

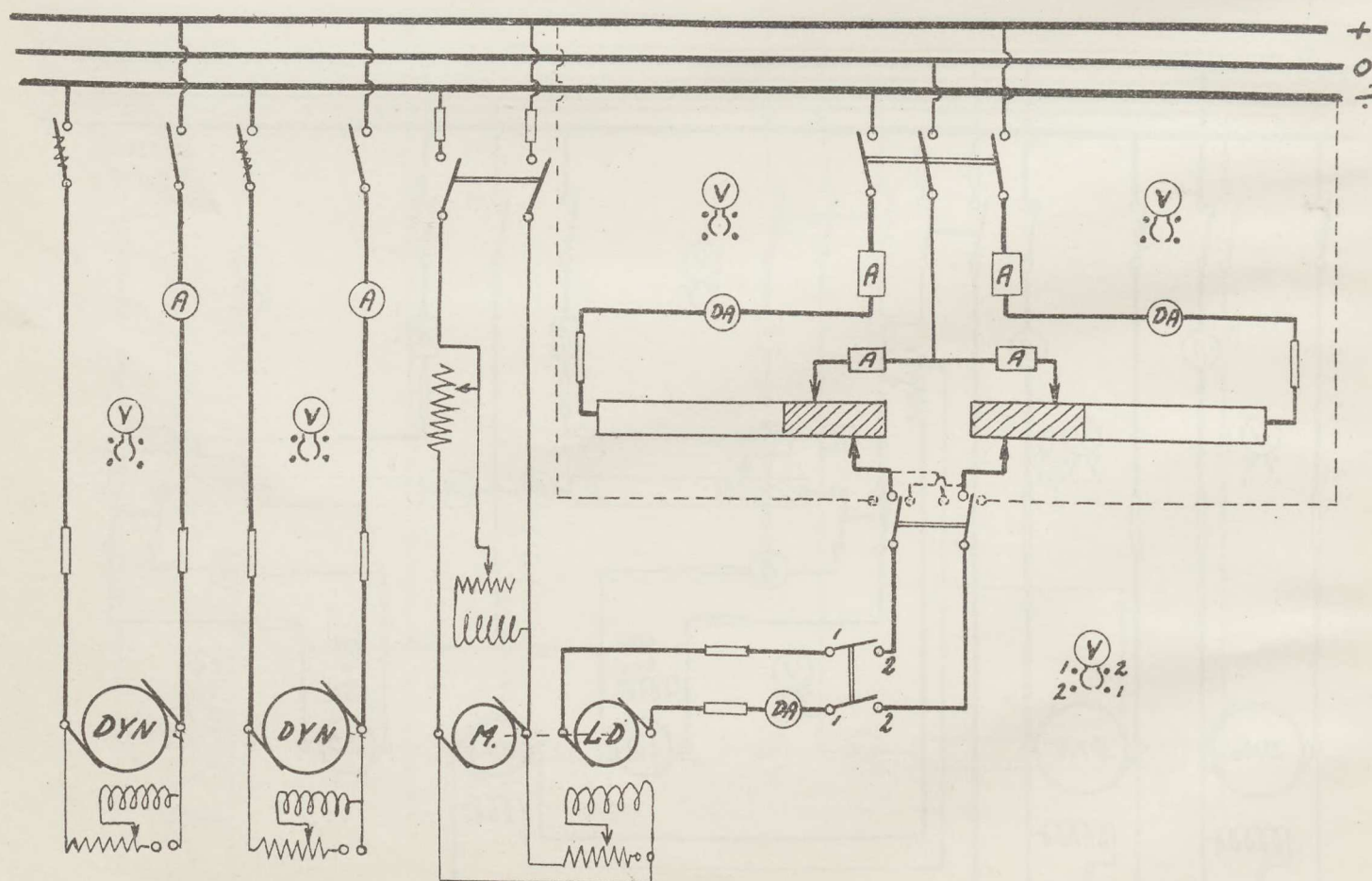


FIG. 36 TRELEDERSYSTEM MED EN ENKELT LADEDYNAMO.

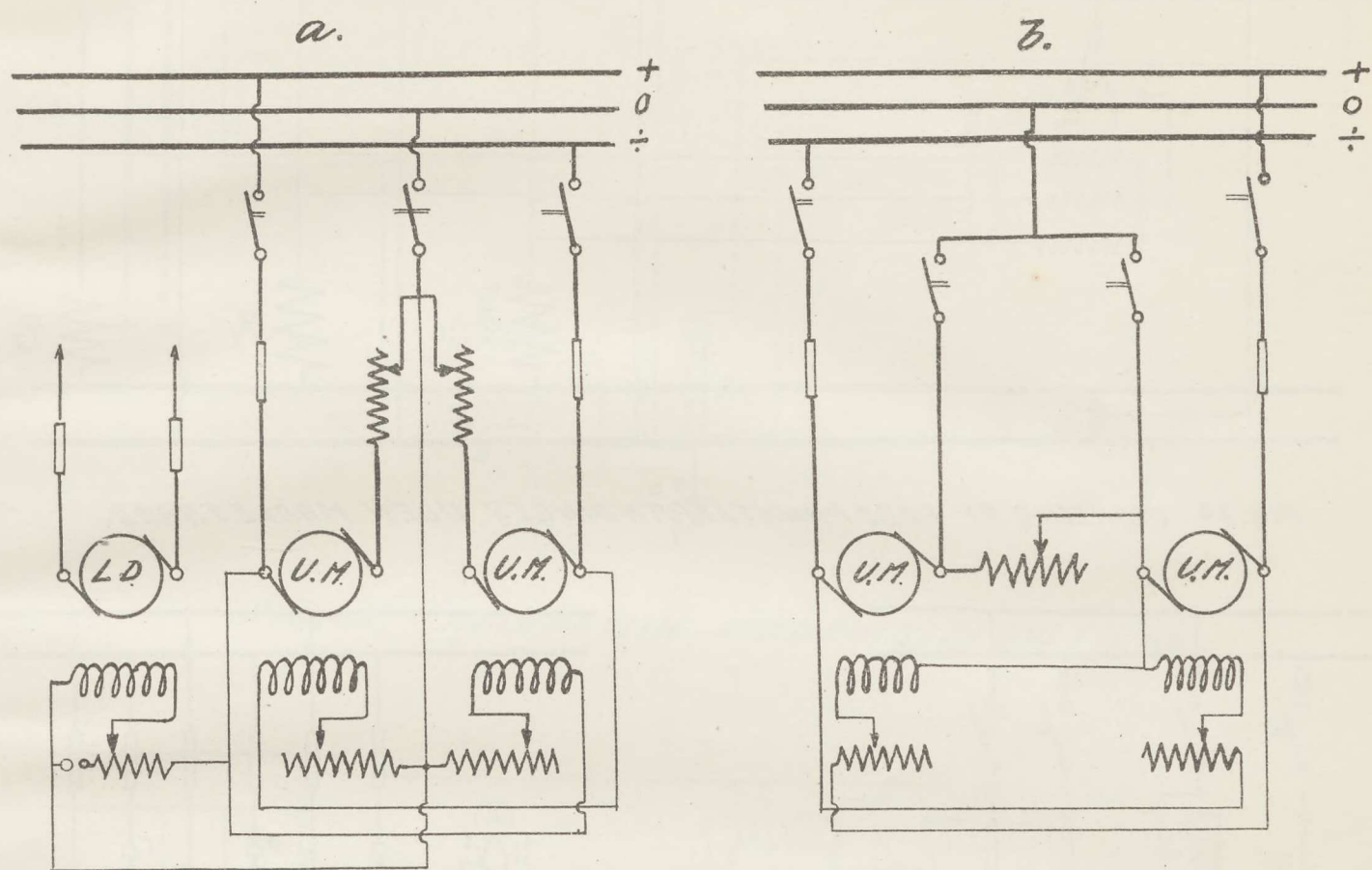


FIG. 37. FORBINDELSESIKEMA FOR UDIGNINGSMASKINER.

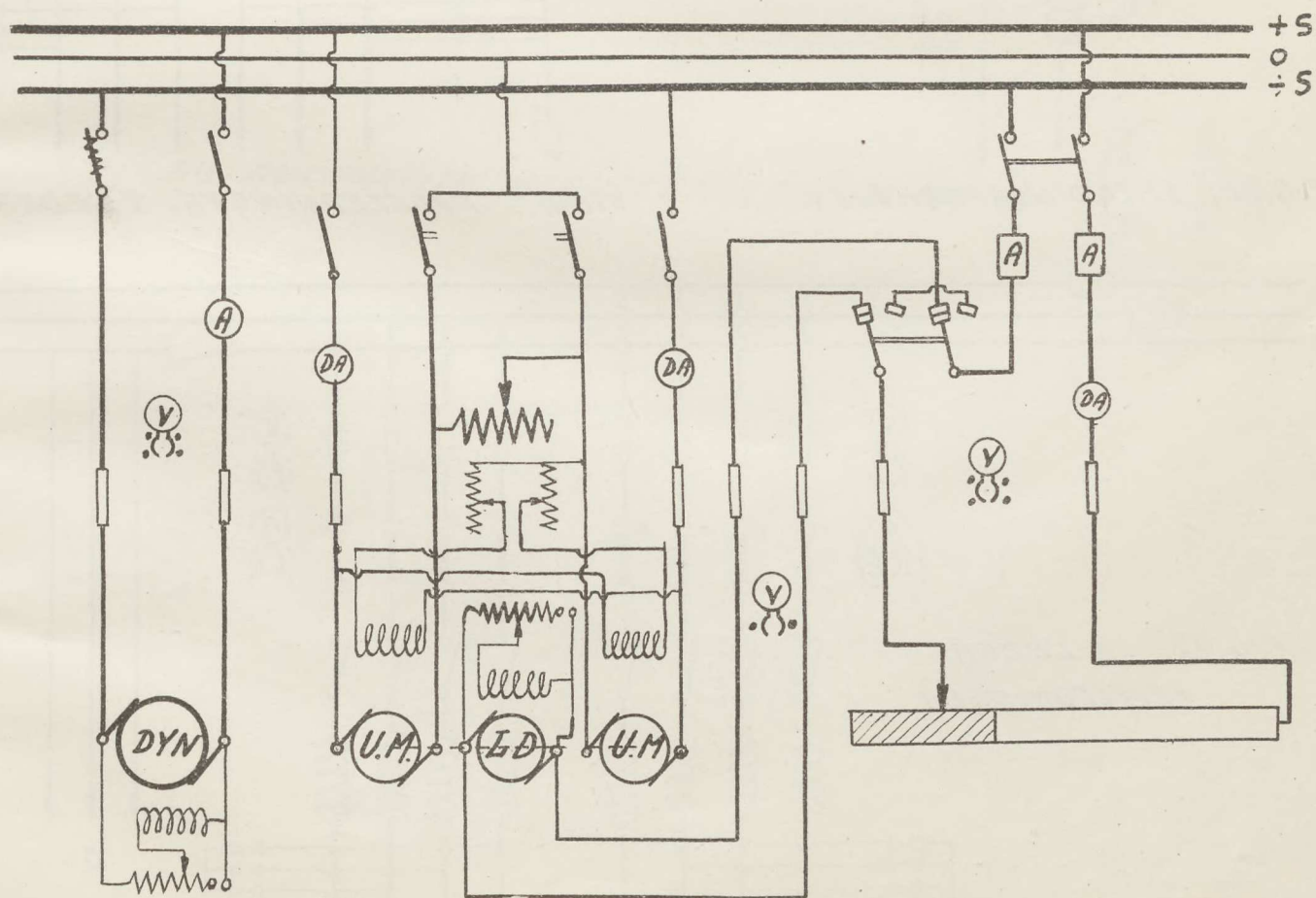


FIG. 38. UDIGNINGSMASKINER OG BATTERI TIL HEL SPENDING.

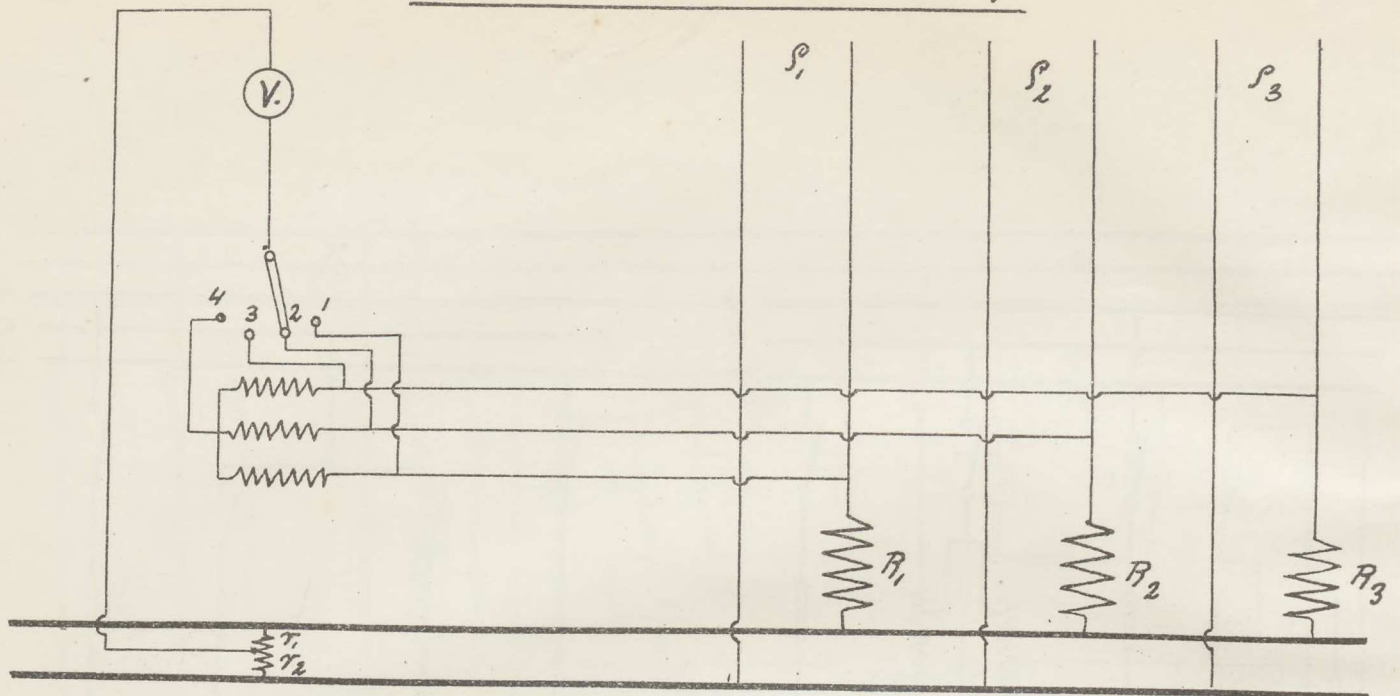


FIG. 39. MAALING AF FØDEPUNKTSPENDINGER UDEN MAALETRAAD.

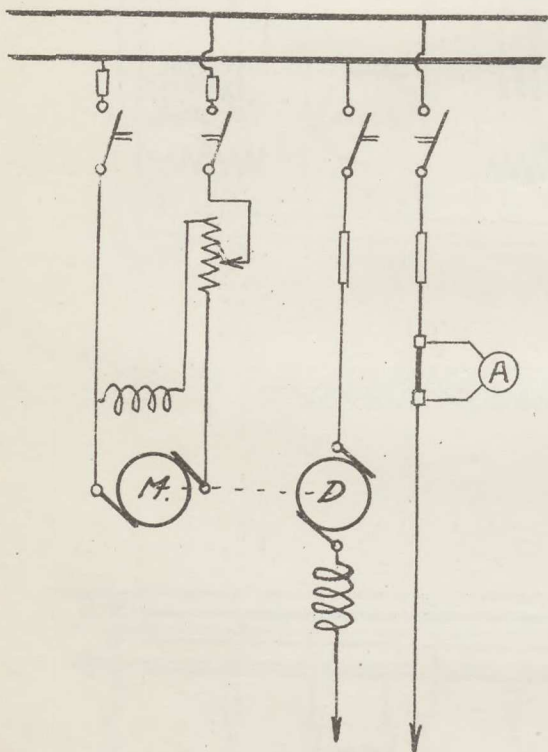


FIG. 40. SPENDINGSFORHØJER.

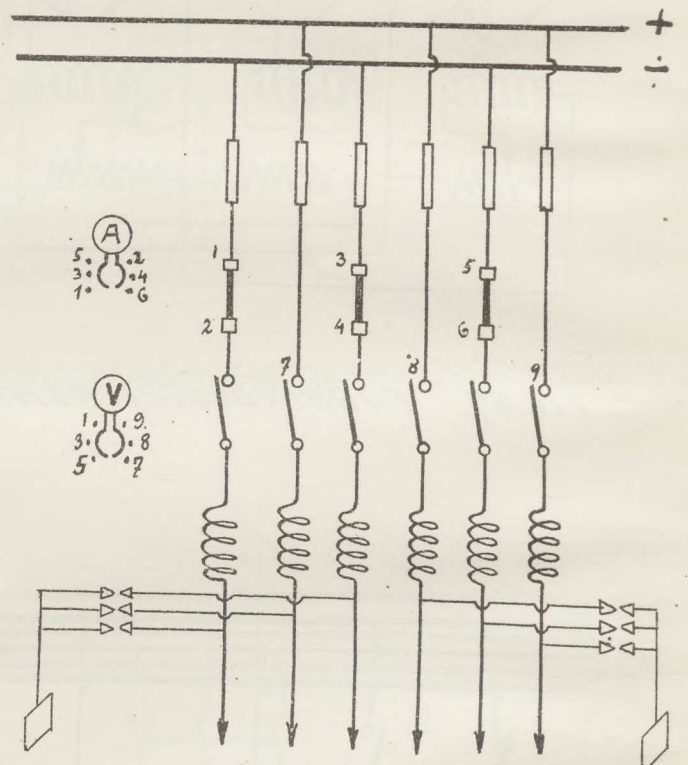


FIG. 41. FØDELEDNINGER. 2-LEDER.

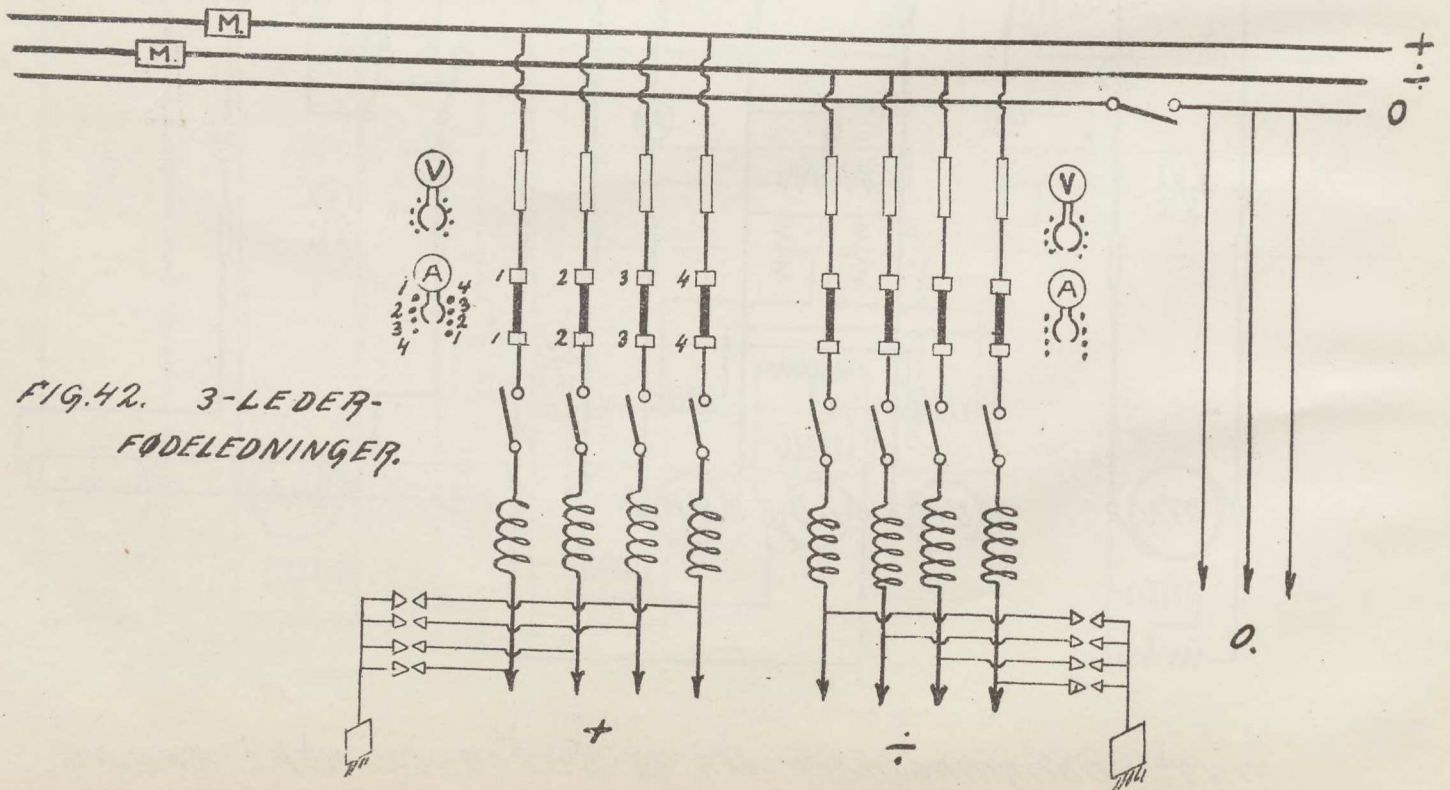


FIG. 42. 3-LEDER-FØDELEDNINGER.

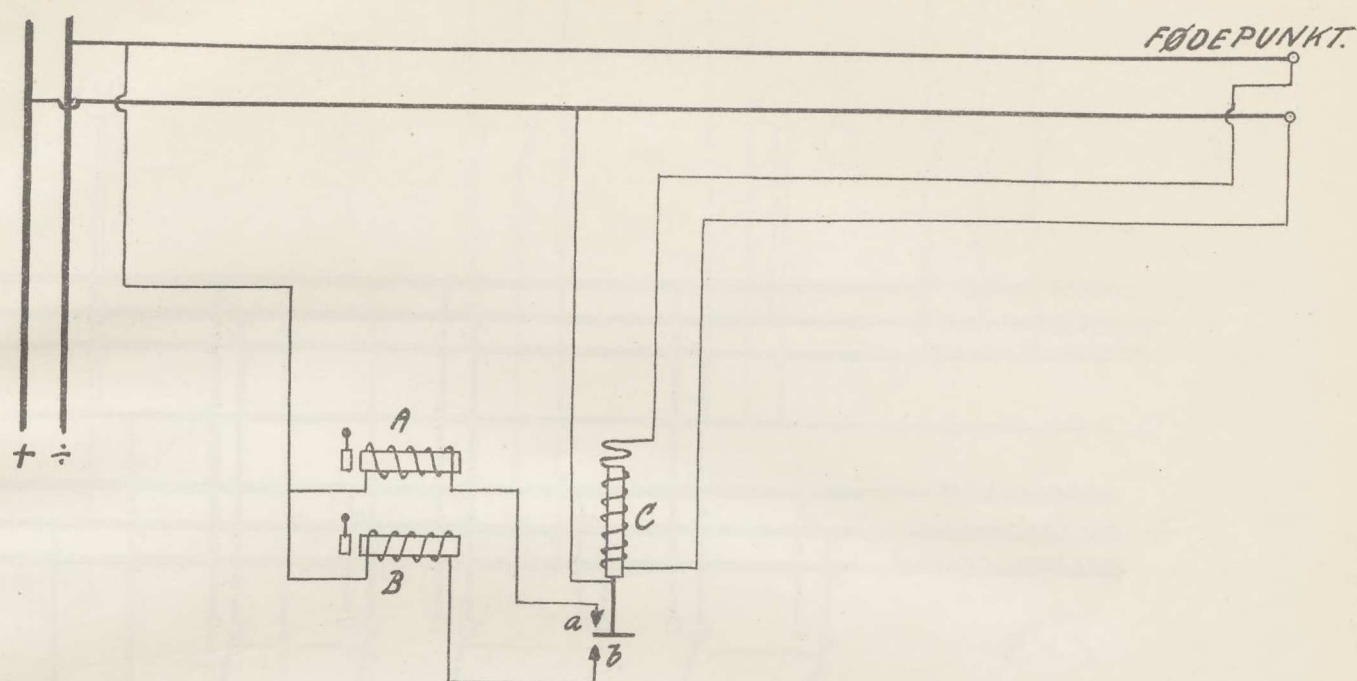


FIG. 43. AUTOMATISK SPÆNDINGSREGULERING.

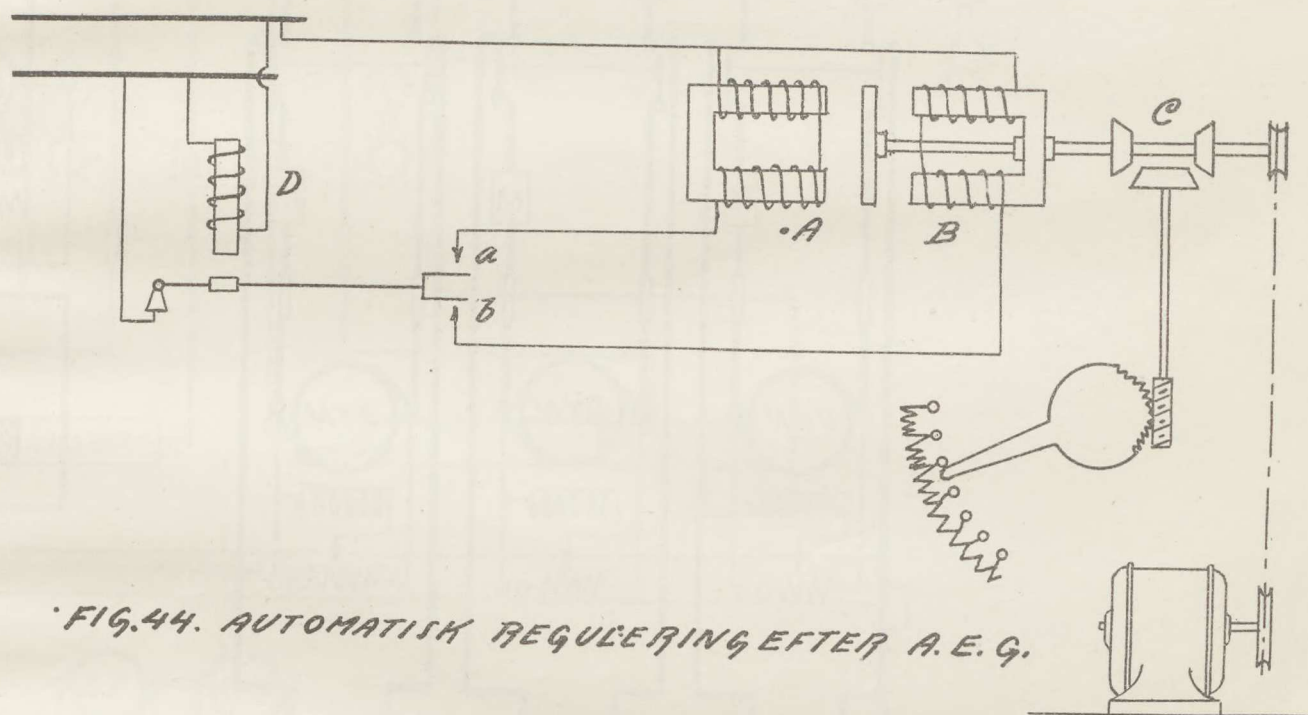


FIG. 44. AUTOMATISK REGULERING EFTER A. E. G.

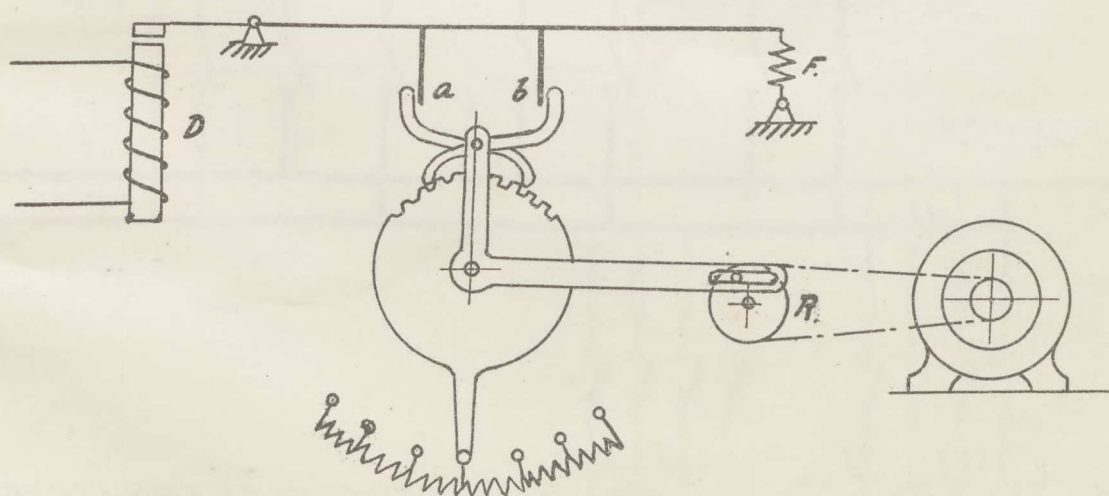


FIG. 45. THURY'S AUTOMAT.

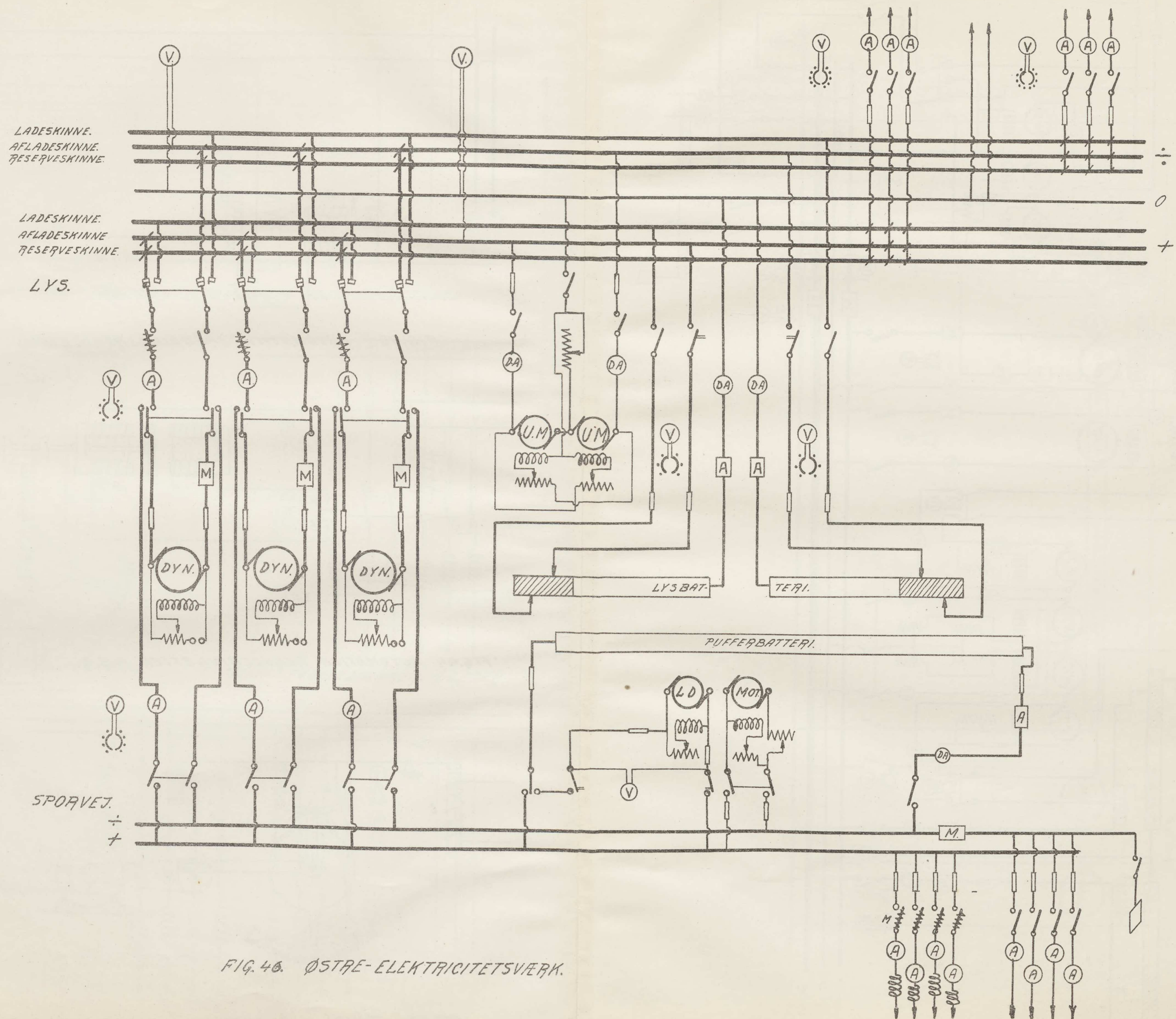
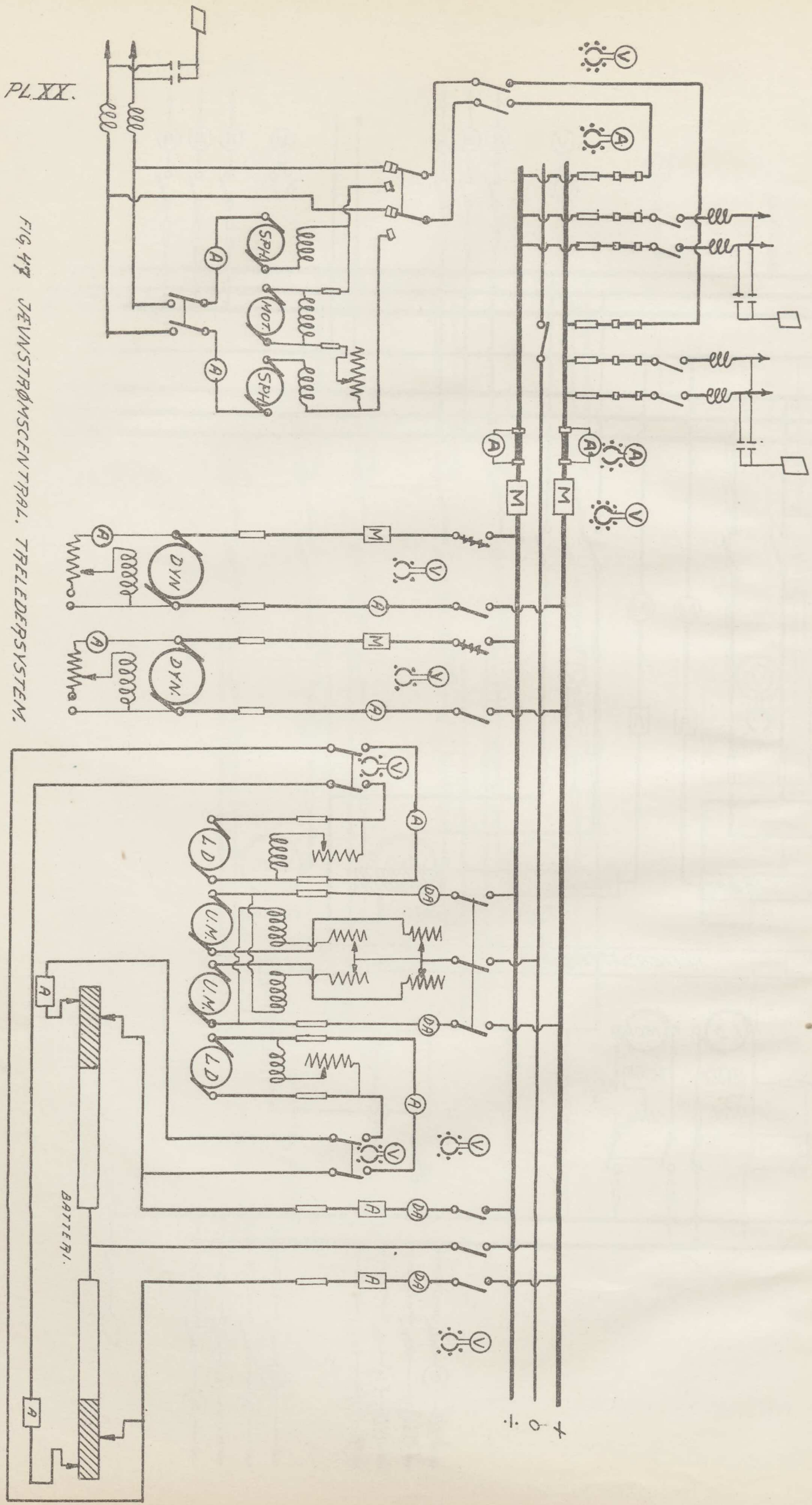


FIG. 46. ØSTRE-ELEKTRICITETSVÆRK.



PL. XX.

FIG. 47 DEINSTRØMSENTRAL. TRELEDERSYSTEM.

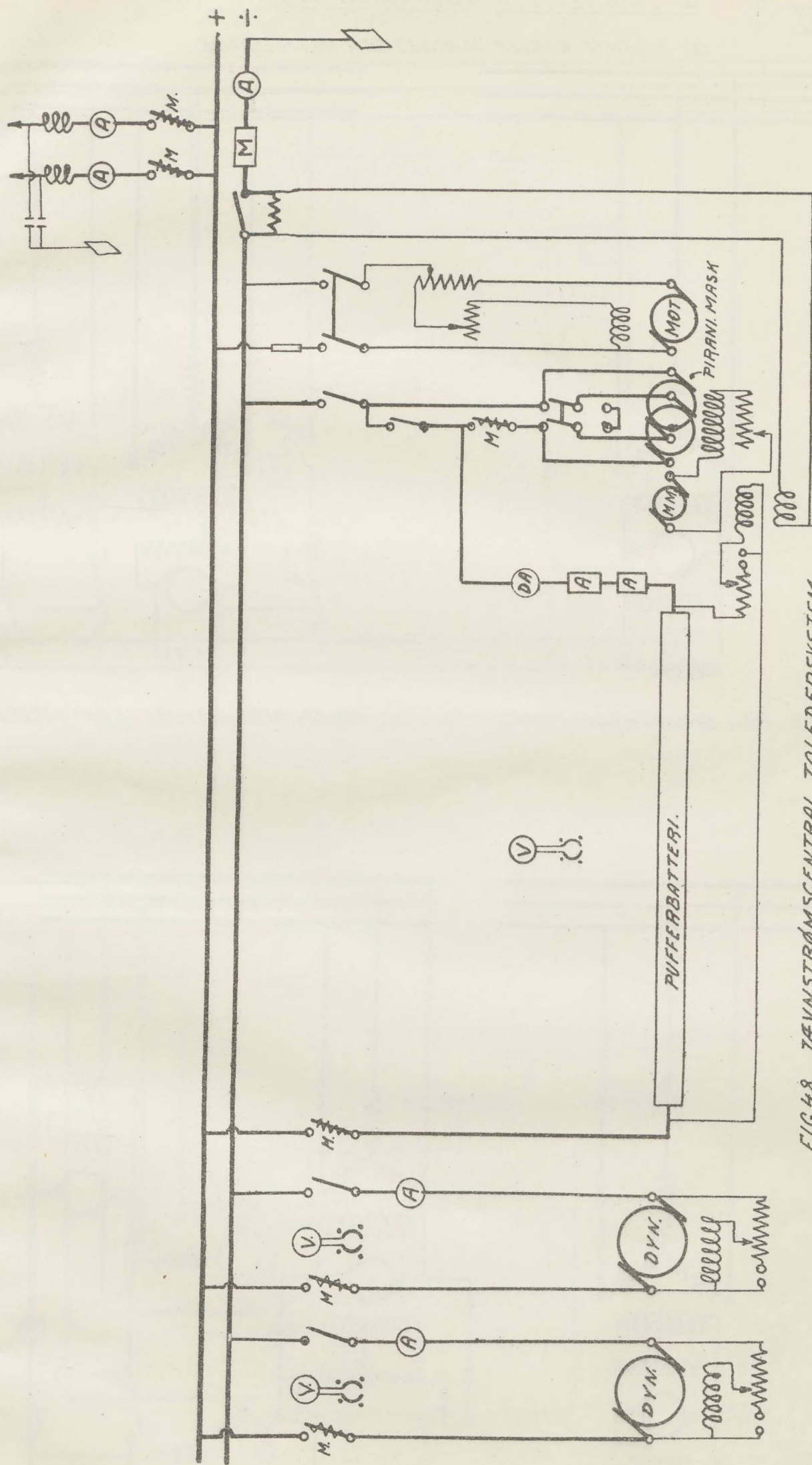


FIG 48 JÆVNSTRØMSCENTRAL. TOLEDESYSTEM.

B. VEKSELSTRØMSCENTRALER.

I. MAGNETISERINGSANORDNINGER.

PL. XXII.

α. DIREKTE KOBLET MAGNETISERINGSMASKINE.

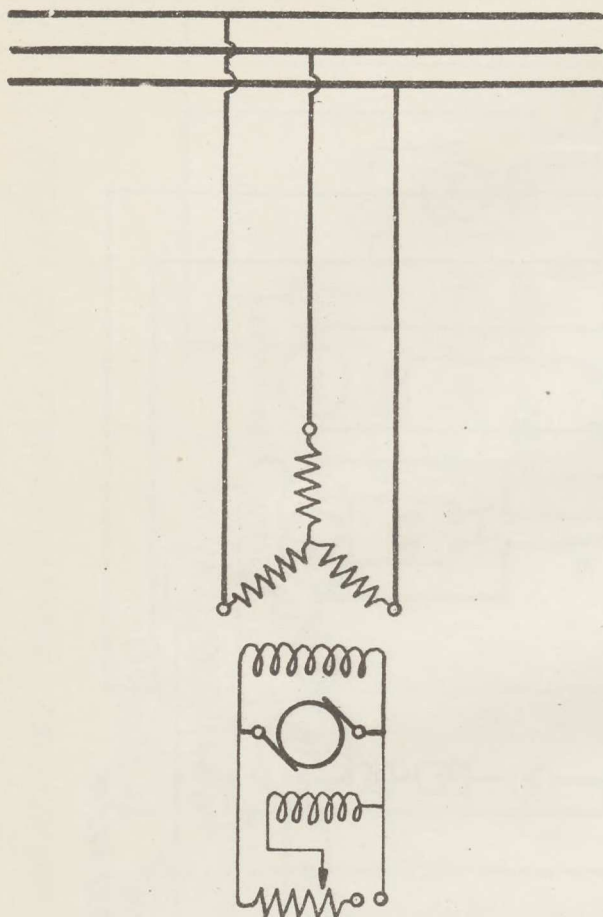


FIG. 49. MED SHUNTREGULERING.

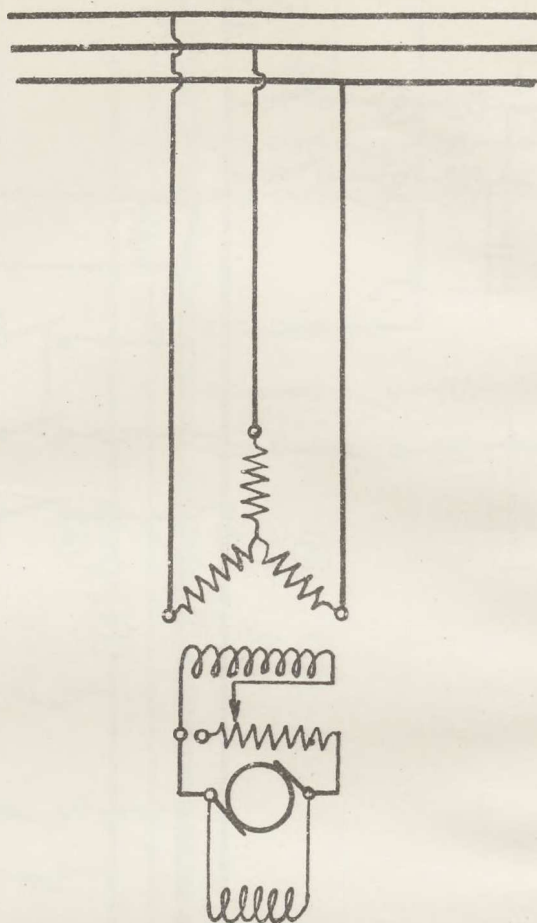


FIG. 50. MED HOVEDSTRØMSREGULERING.

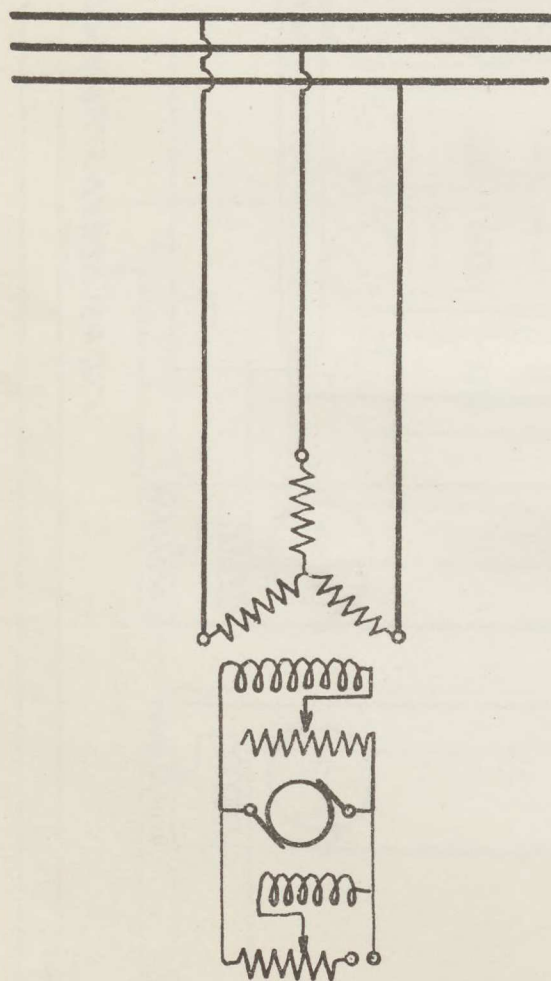


FIG. 51. MED GROV- OG FIN-REGULERING.

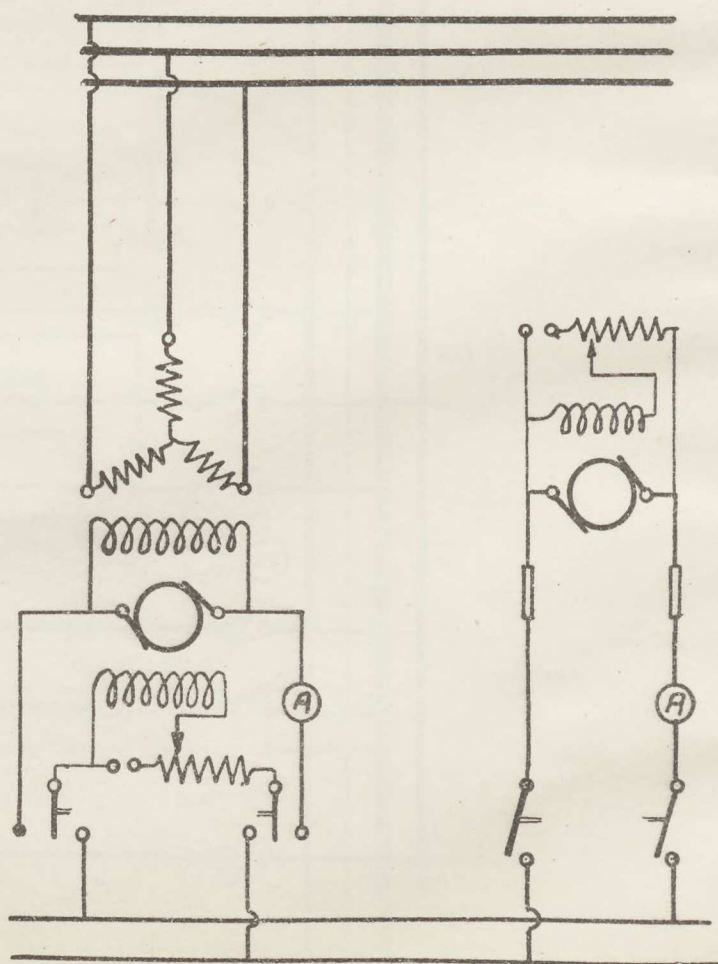


FIG. 52. MED FØREMAGNETISERT SHUNT.

3. CENTRAL MAGNETISING:

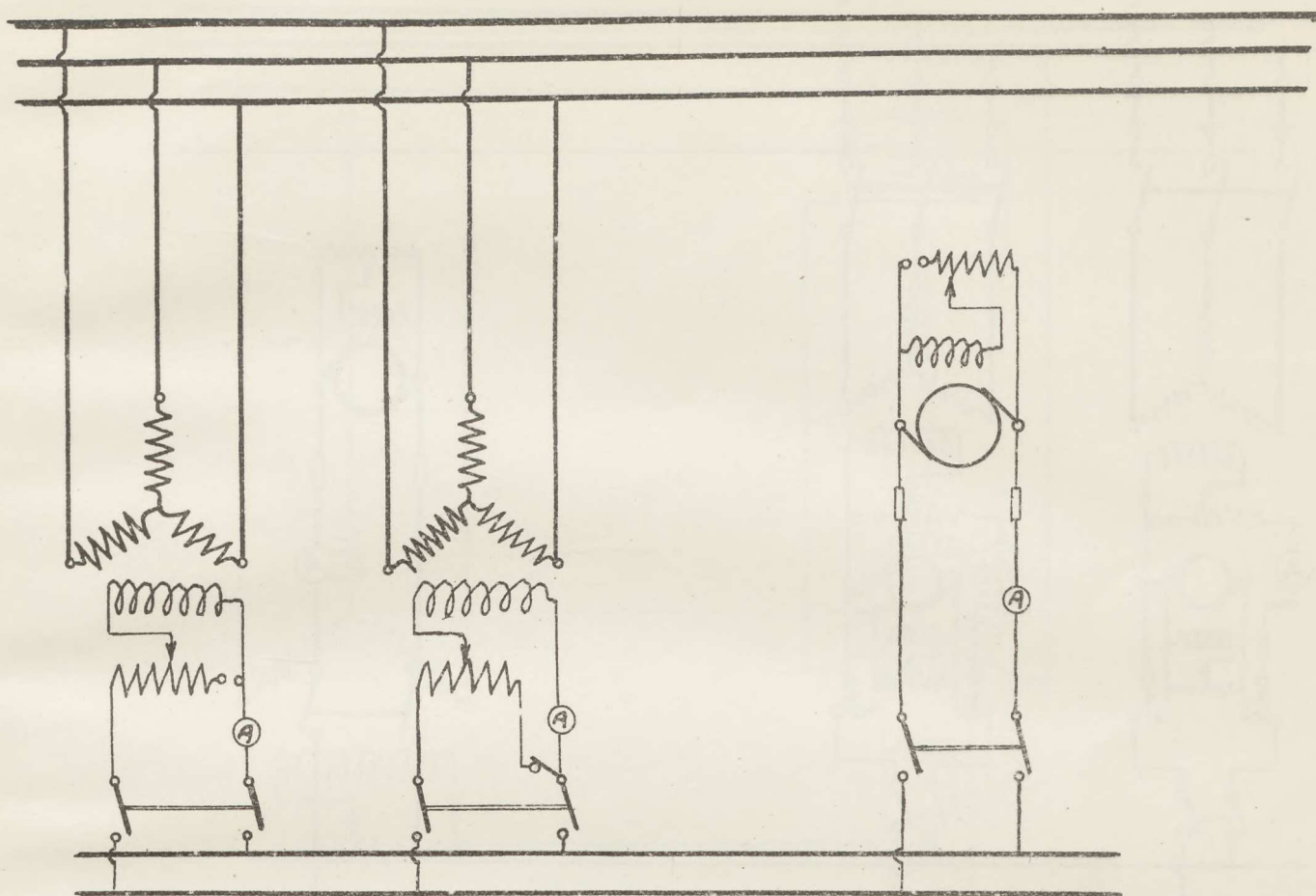


FIG. 53. MED JÆVNSTRØMSDYNAMO.

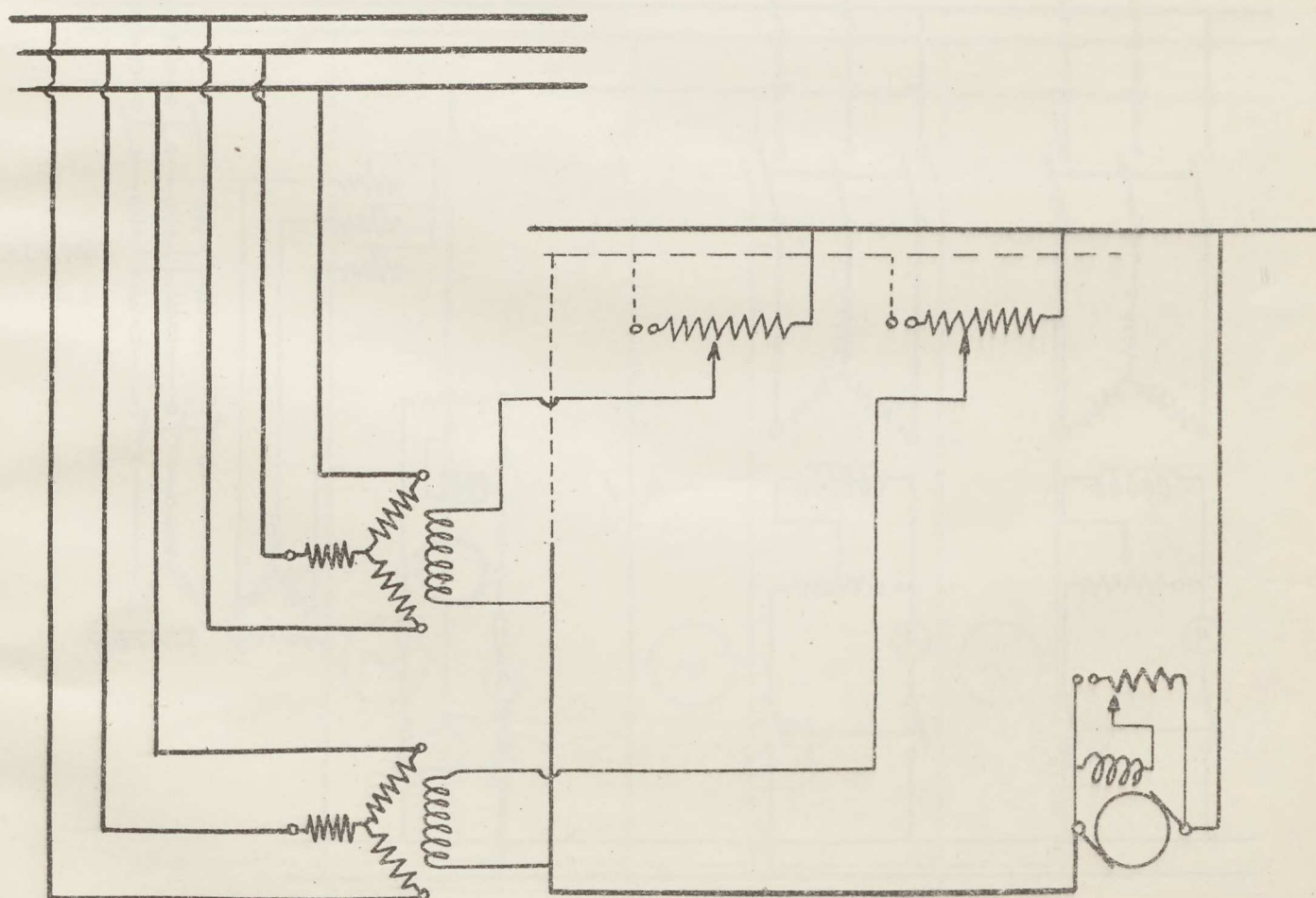


FIG. 54. MED JÆVNSBØMSSAMLESKINNE ANORDNET I MASKINSALEN.

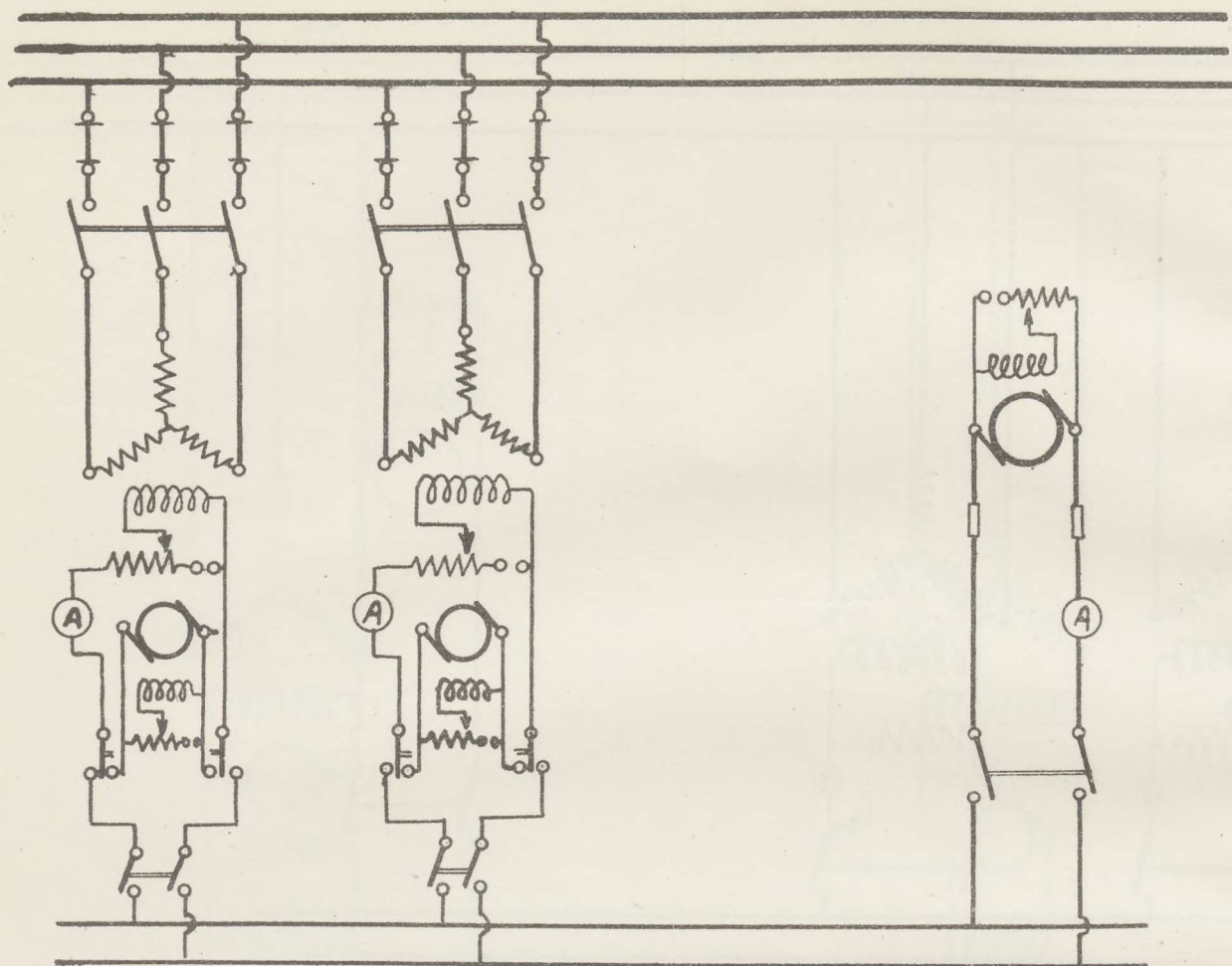


FIG. 55. DIREKTE KOBLET MAGNETISERINGSMASKINE MED CENTRALMAGNETISERING SOM RESERVE.

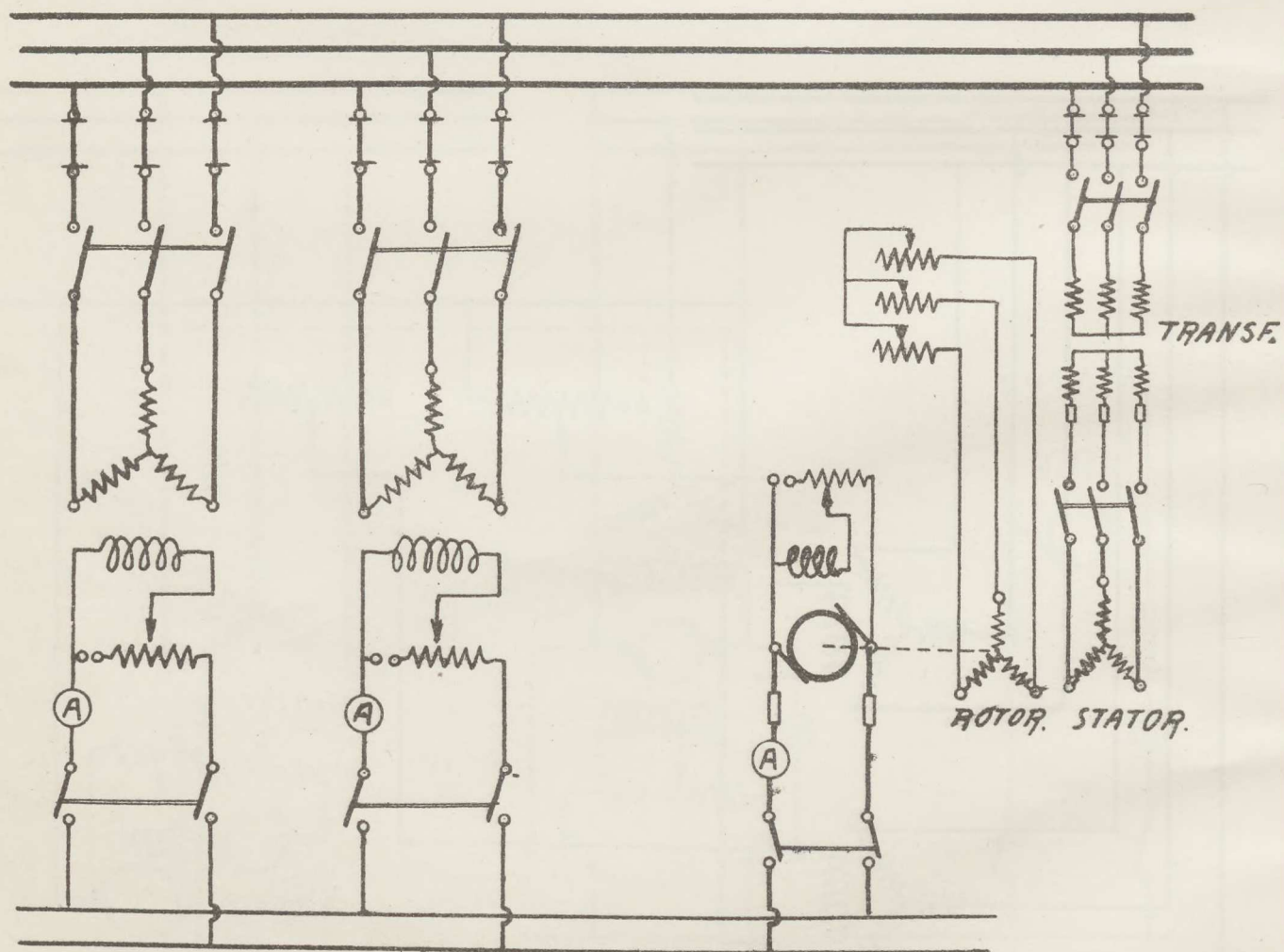


FIG. 56. CENTRALMAGNETISERING VED ASYNKRON OMFORMER.

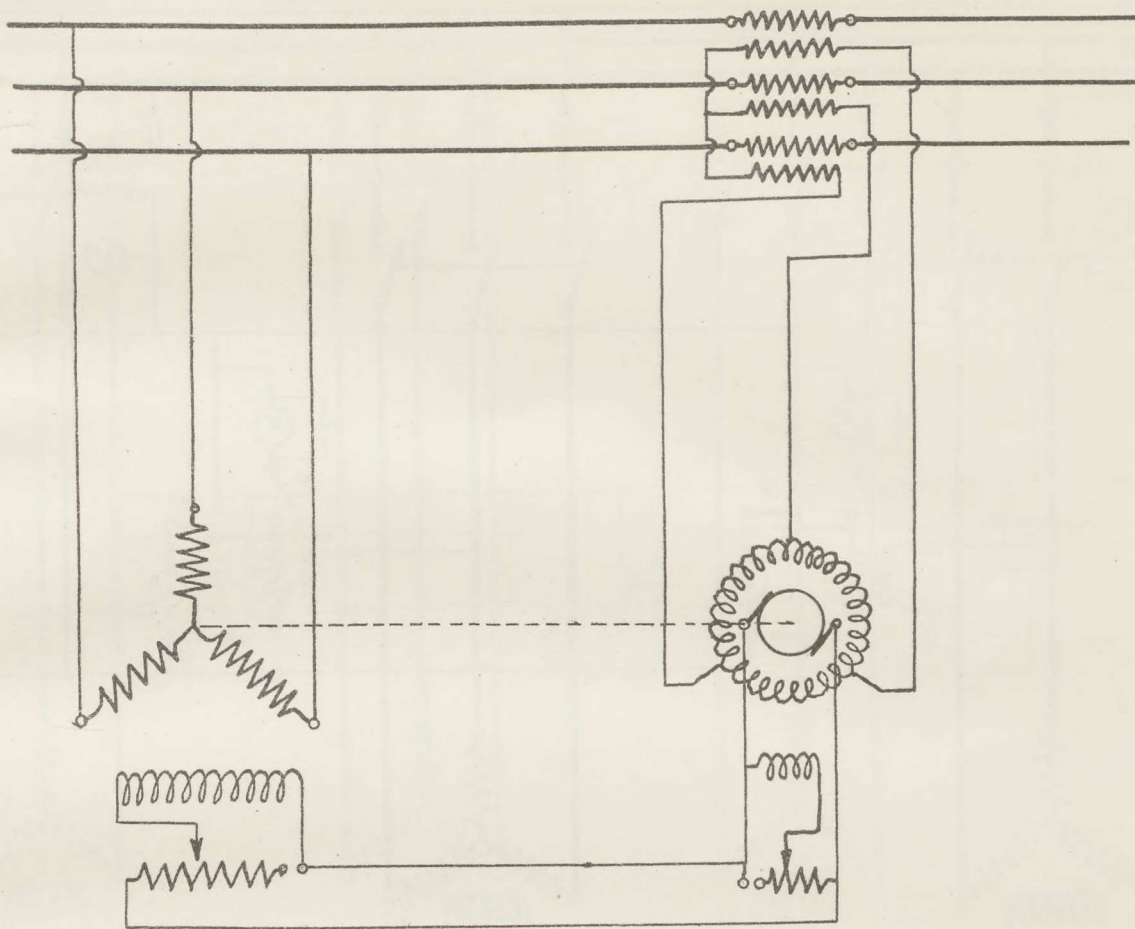


FIG. 57. KOMPONDERING OG MAGNETISERING MED DIREKTE KOBLET ETANKEROMFORMER.

II. FASEINDIKATORER.

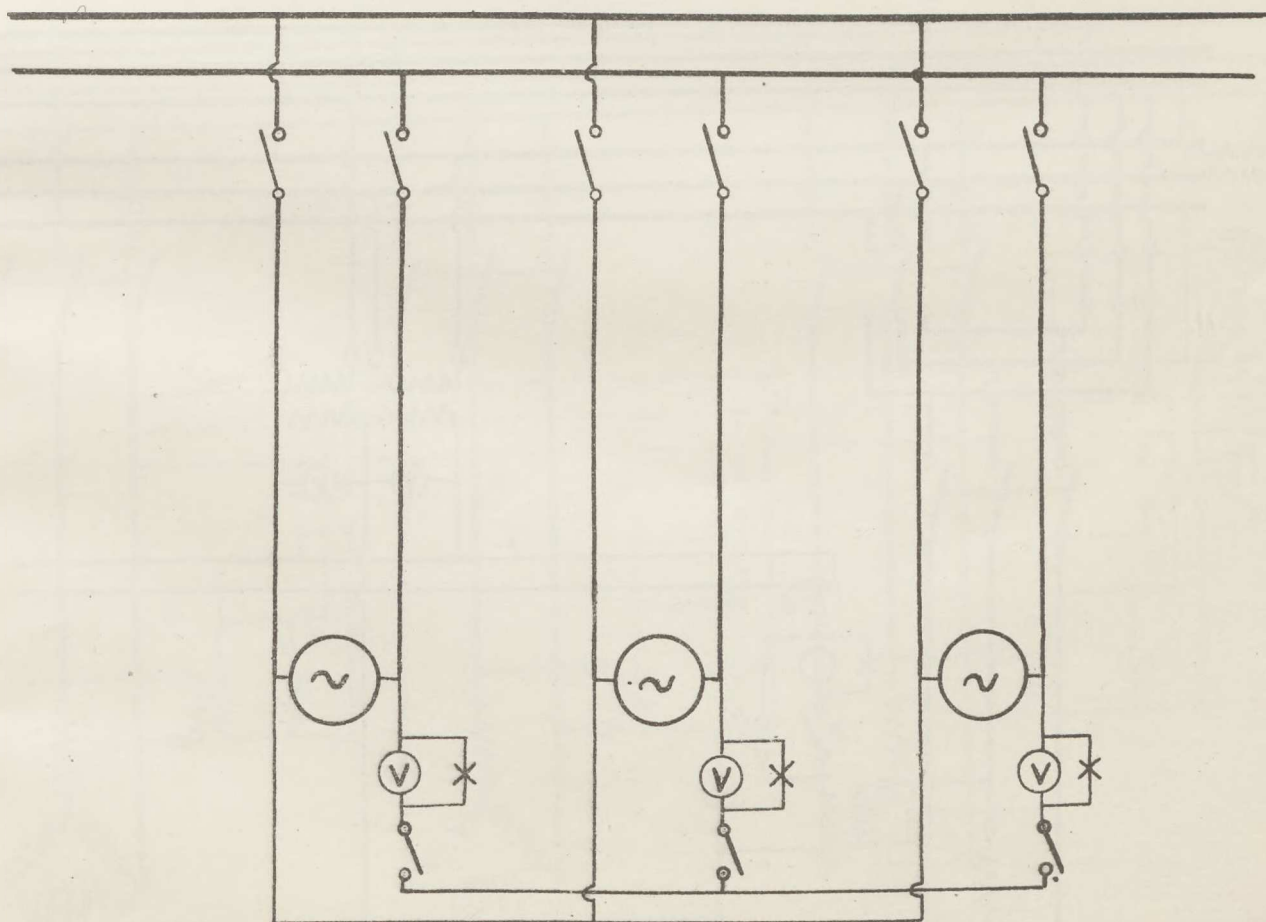


FIG. 58. FASEINDIKATOR FOR ENFASESYSTEM. [LAVSPENDING].

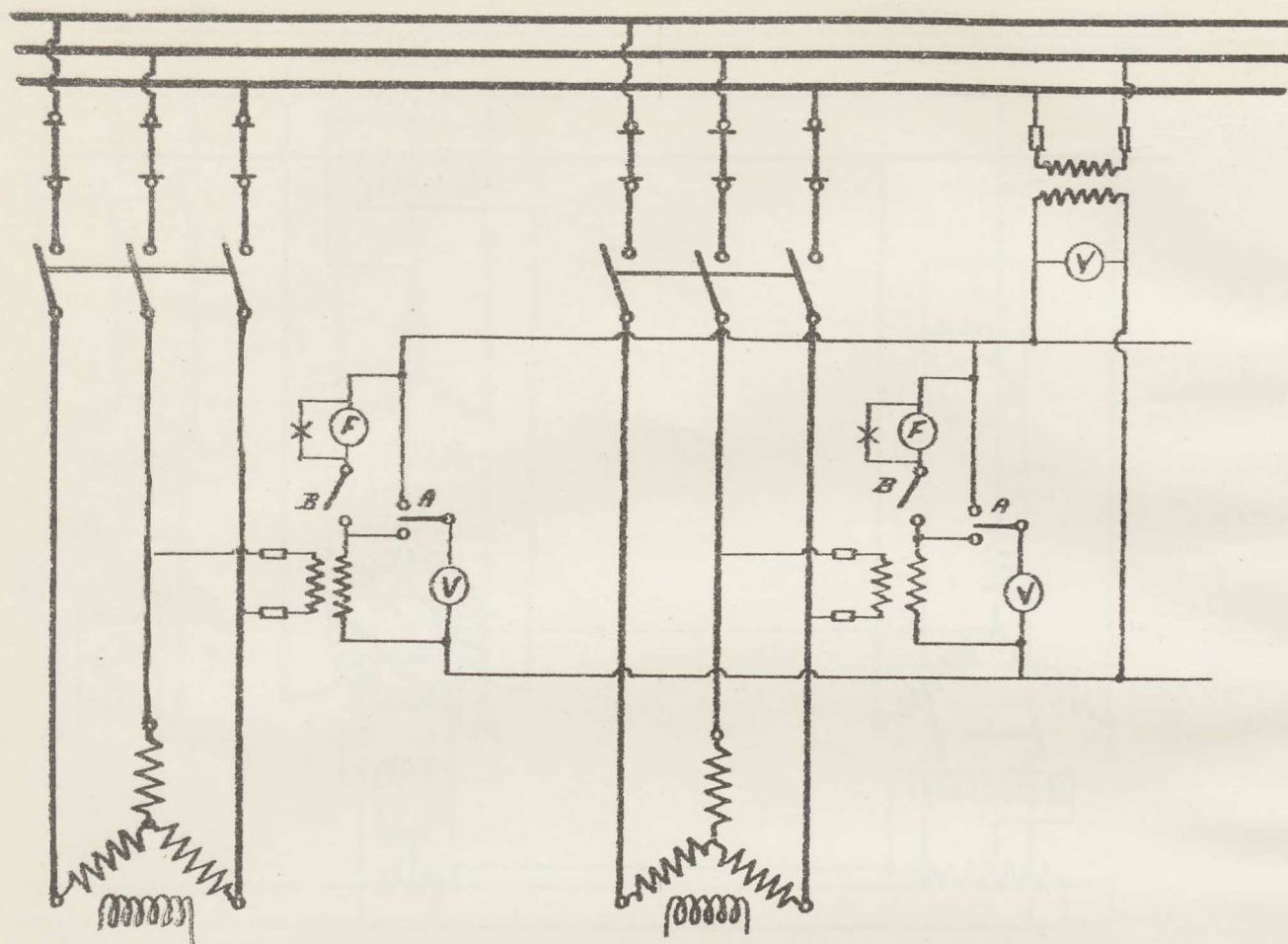


FIG. 59. FASEINDIKATOR FOR ENKELT SAMLESKINNESYSTEM. [HØJSPÆNDING].

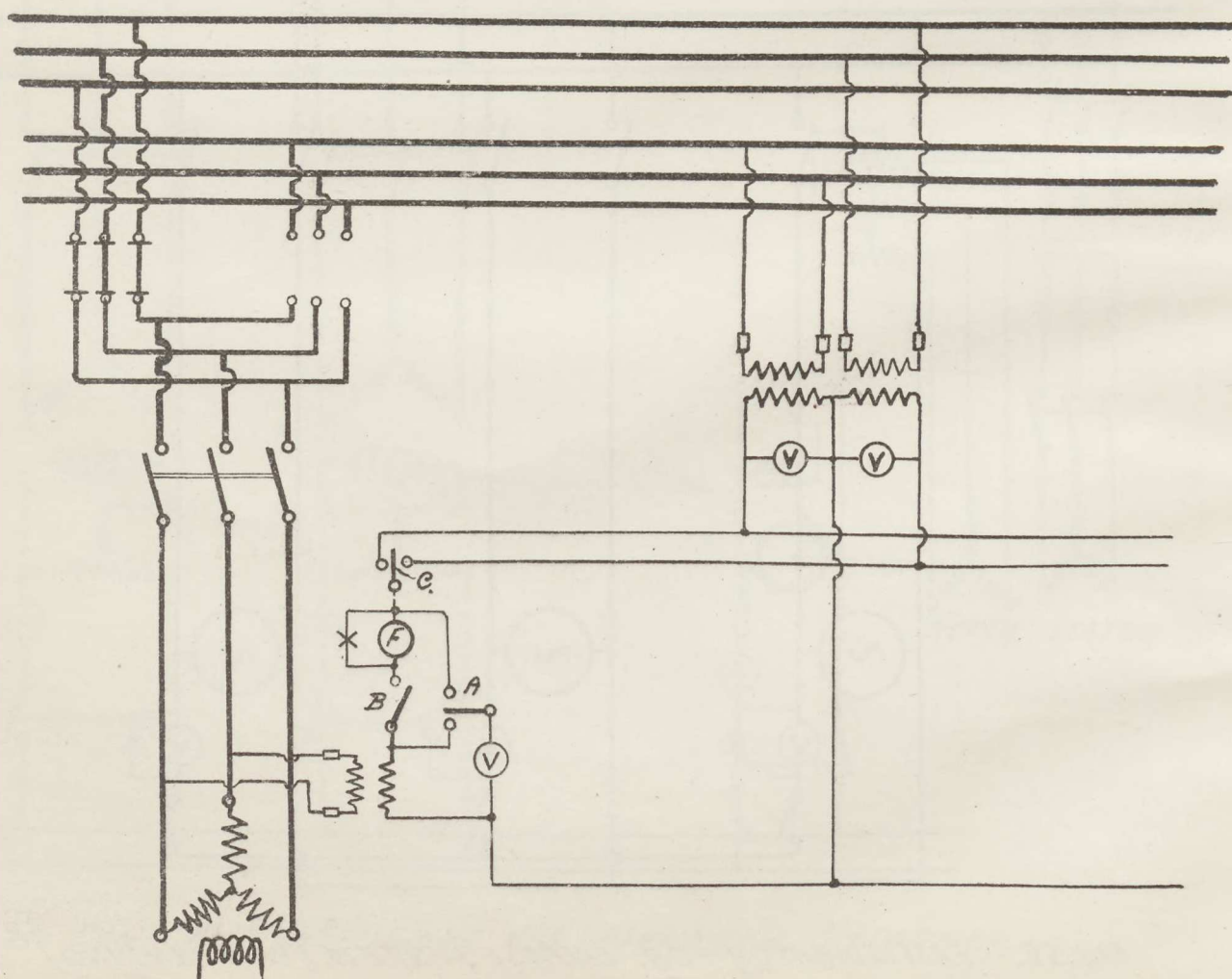


FIG. 60. FASEINDIKATOR FOR DOBBELT SAMLESKINNESYSTEM.

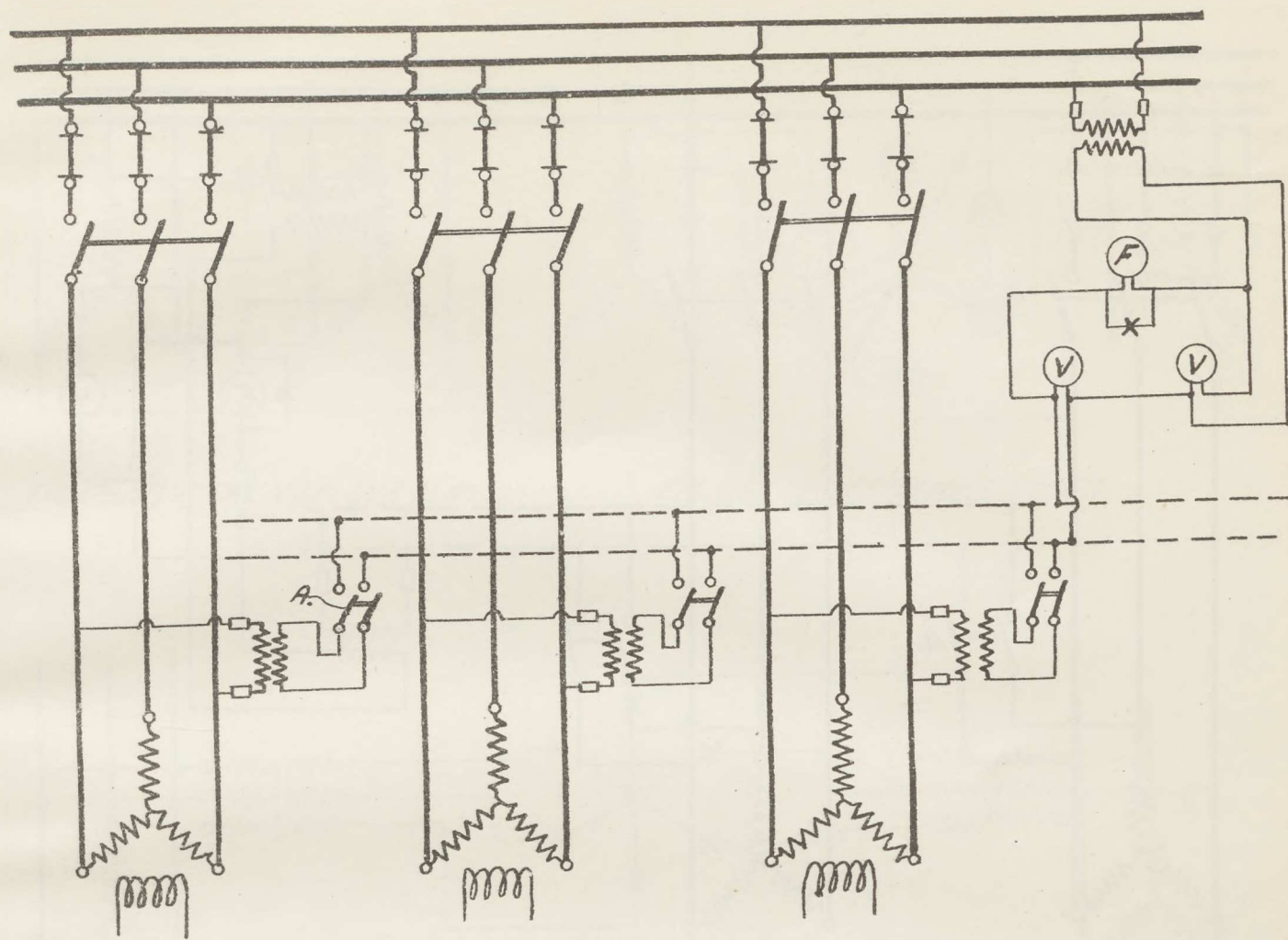


FIG. 61. FÆLLES FASEINDIKATOR.

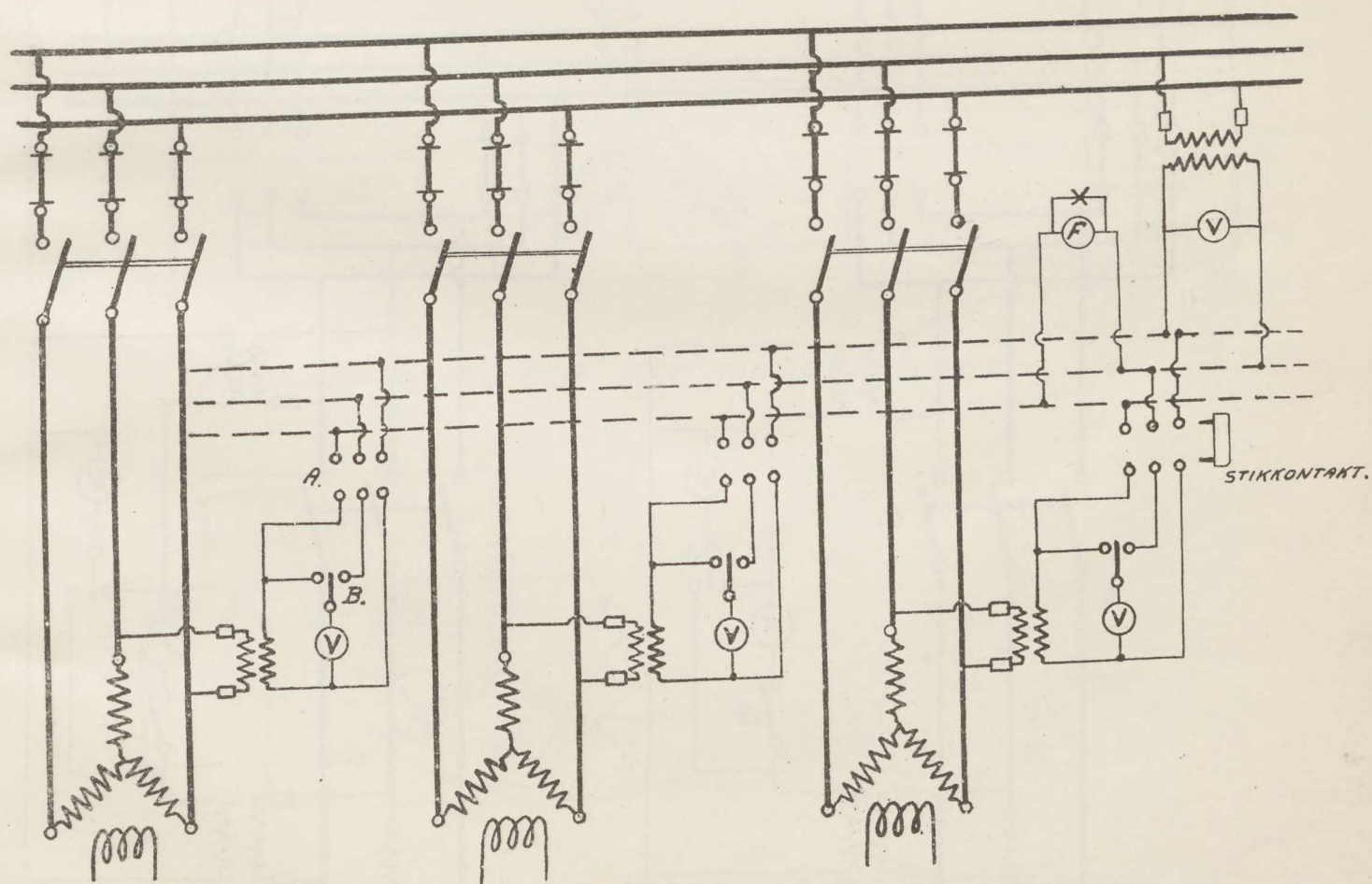


FIG. 62. FÆLLES FASEINDIKATOR MED SÆRSKILT VOLTmeter FOR HVER MASKINE.

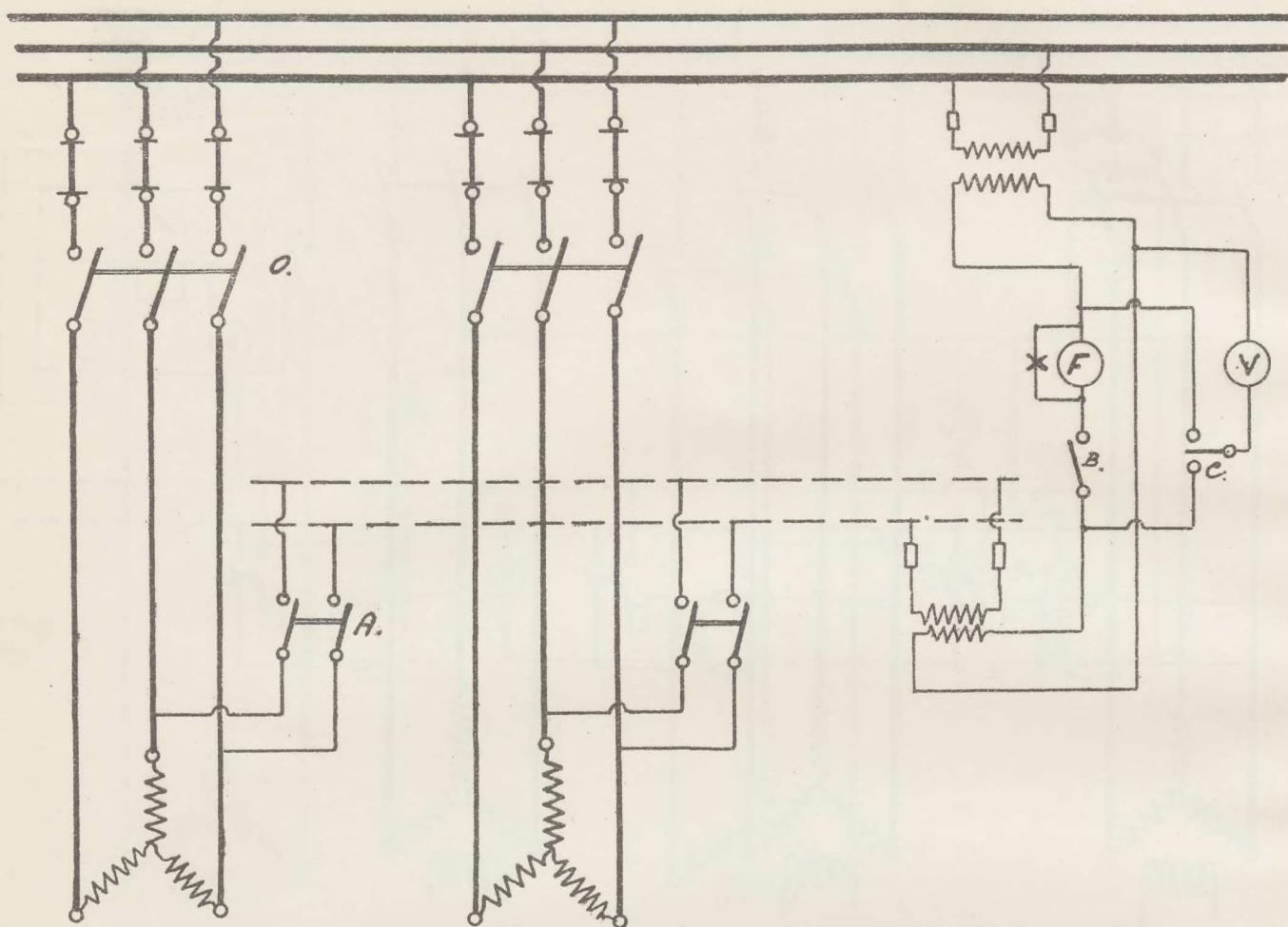


FIG 63. FÆLLES FASEINDIKATOR MED HØJSPÆNDINGS-HJÆLPESKINNER

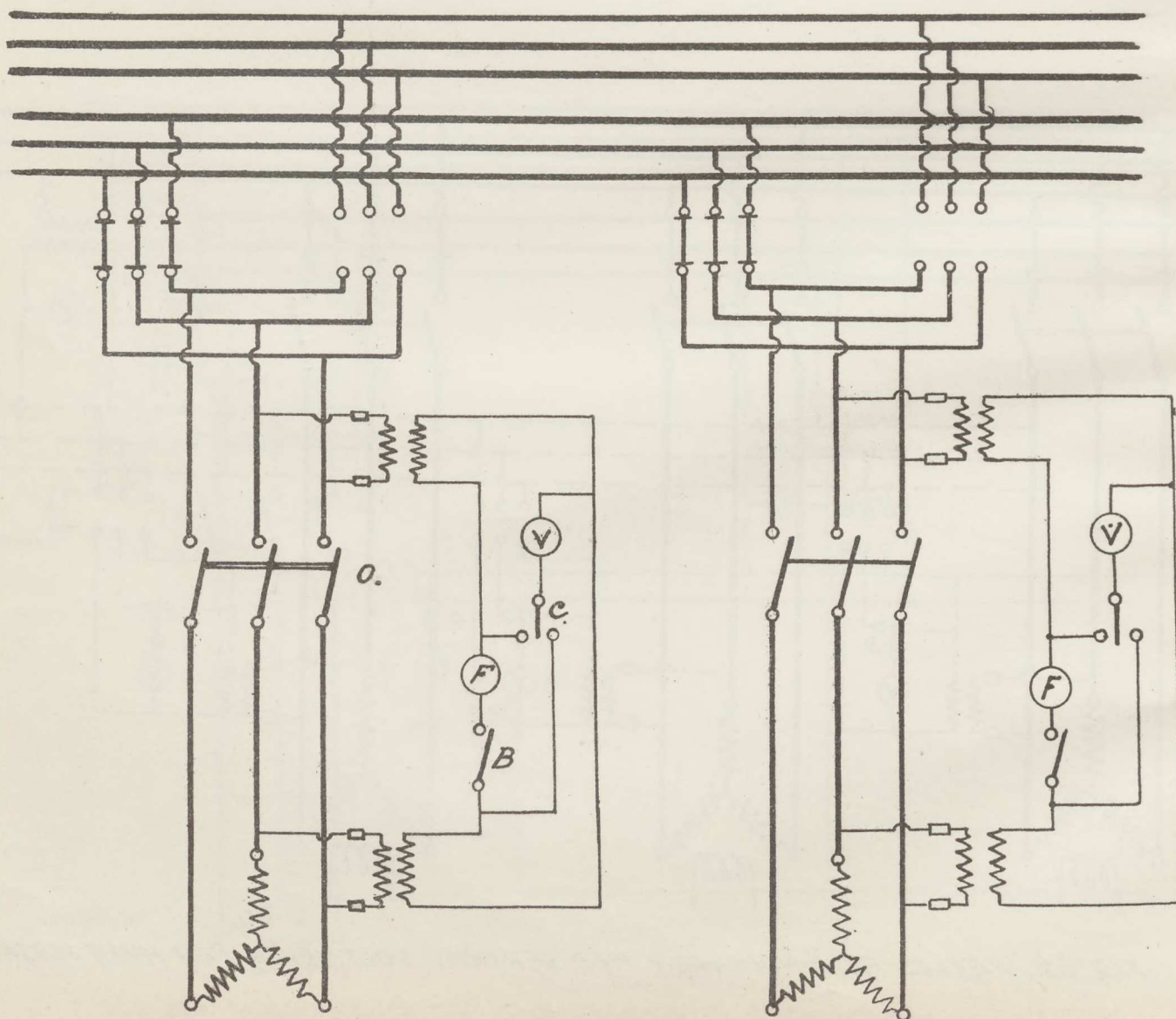


FIG 64. SÆRSKILT FASEINDIKATOR FOR HVER GENERATOR.

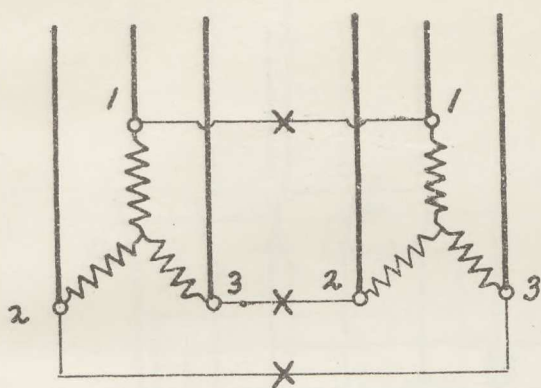


FIG. 65. RØTERENDE LYS [LAVSP].

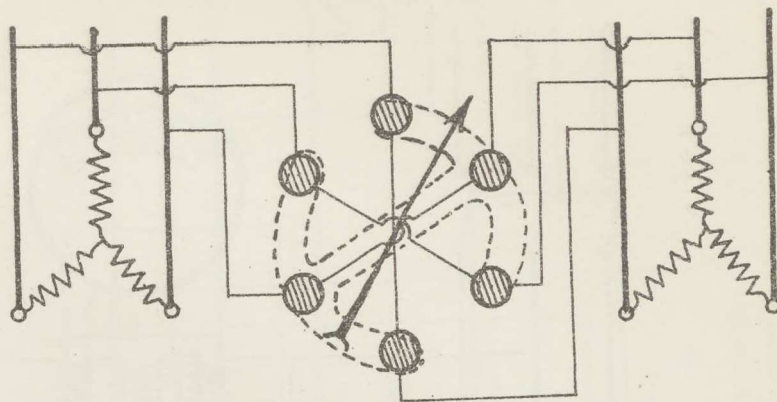


FIG. 66. RØTERENDE VISER.

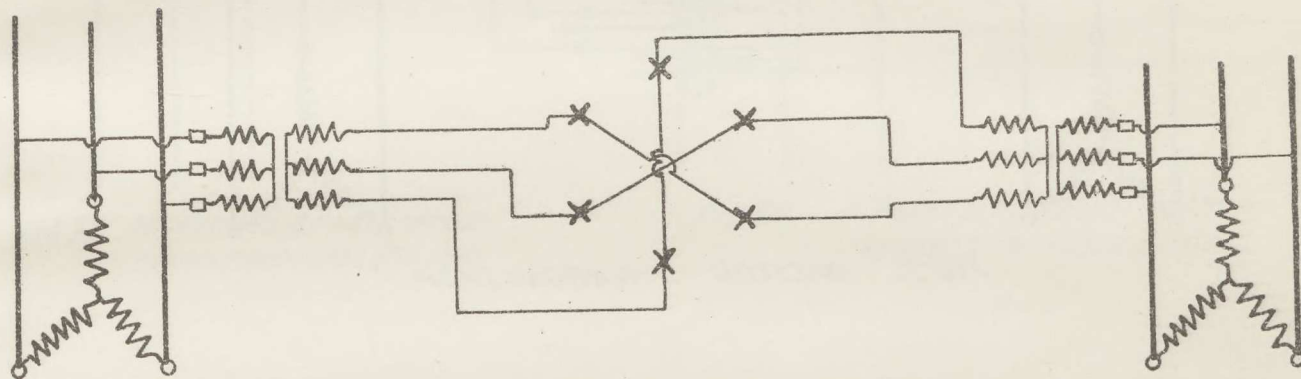


FIG. 67. ANORDNING VED HØJSPÆNDING. RØTERENDE LYS.

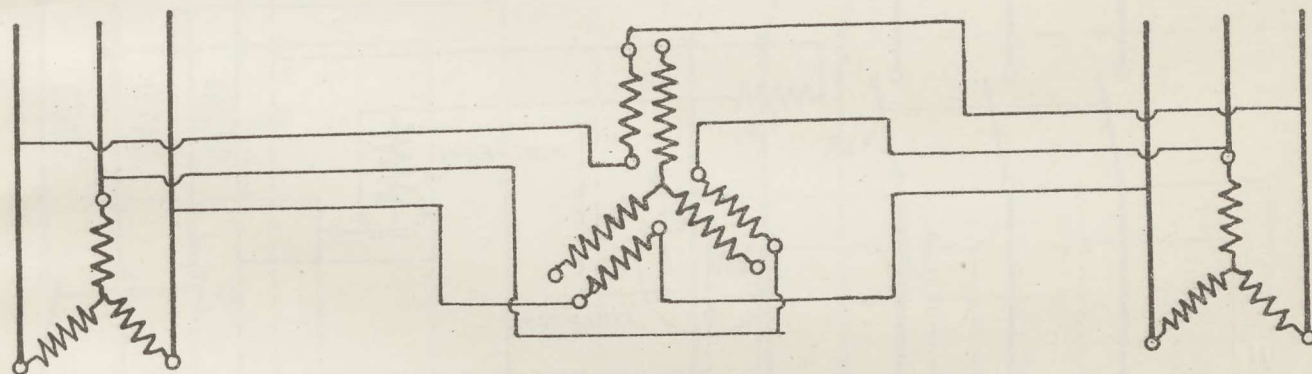


FIG. 68. ANORDNING FOR RØTERENDE LYSPUNKT.

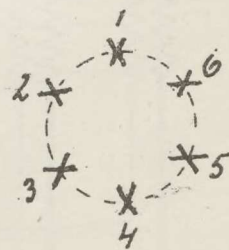
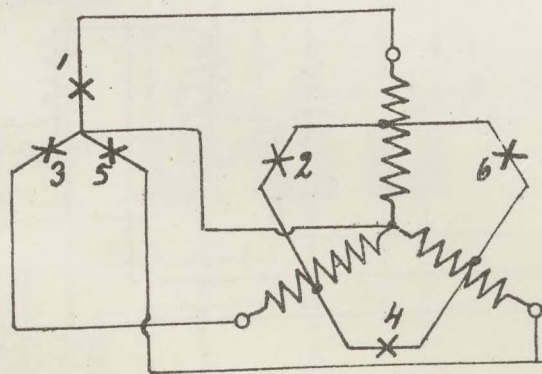


FIG. 69.-70. ANORDNING AFLAMPER EFTER SYSTEM FIG. 68.

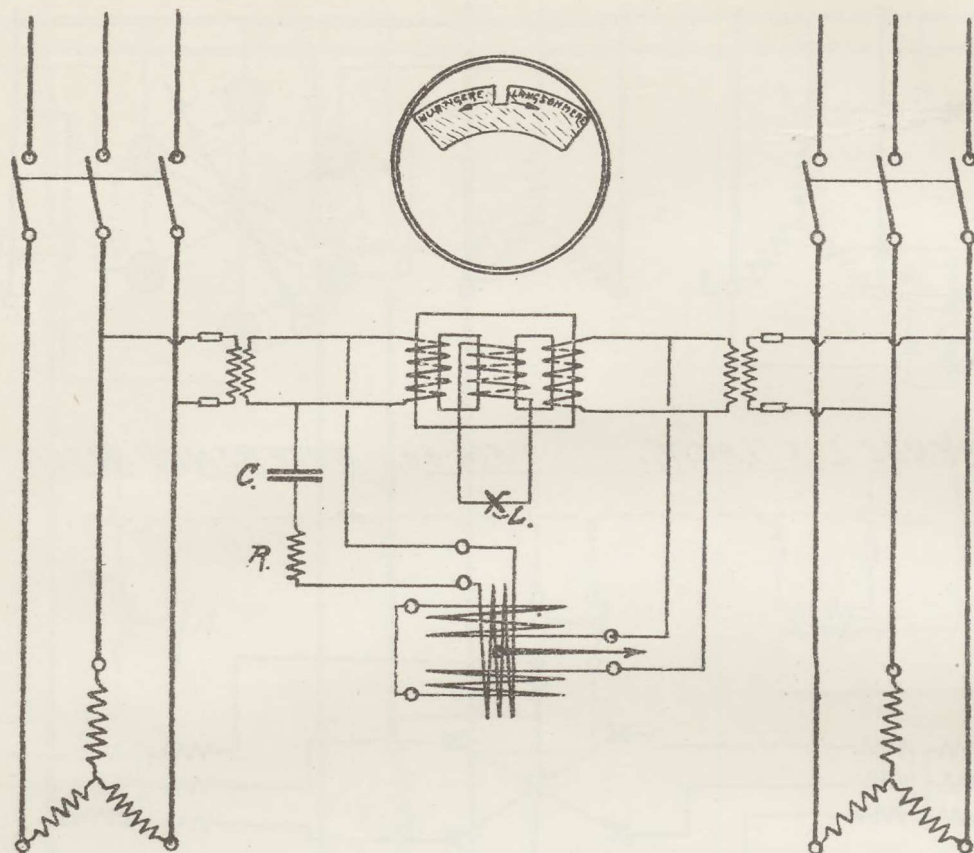


FIG. 71. WESTON SYNKRONOSKOP.

IV RELAISER.

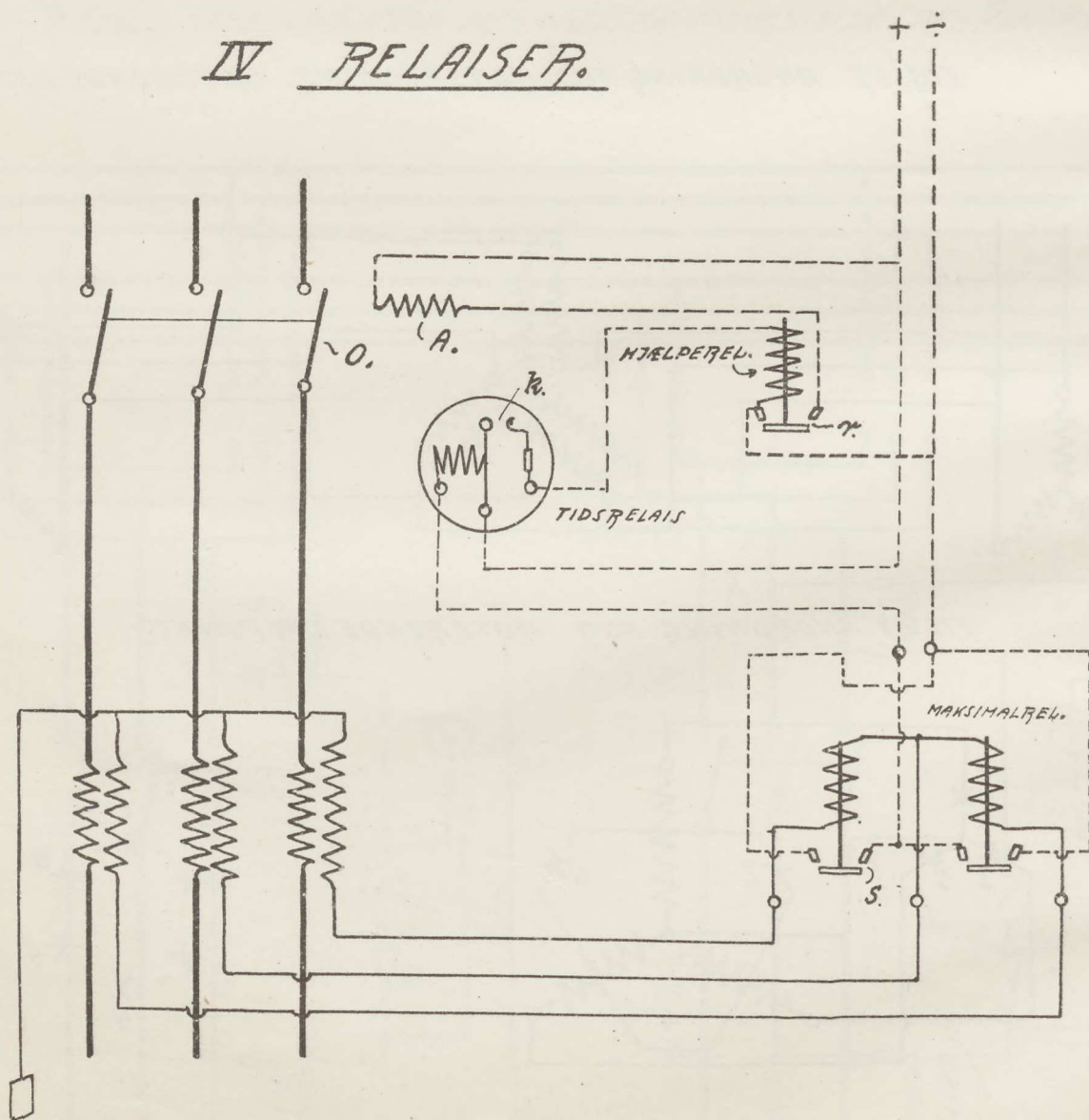


FIG. 72. TOPOLET. MAKSIMALRELAIS MED TIDRELAIS OG HJÆLPEREL.

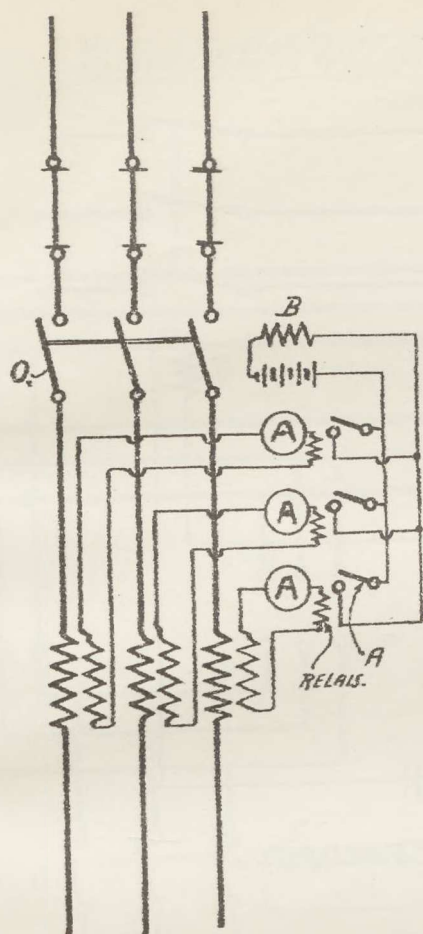


FIG. 73. MAKSIMALRELAIS MED JÆVNSTRØMSUDLØSNING.

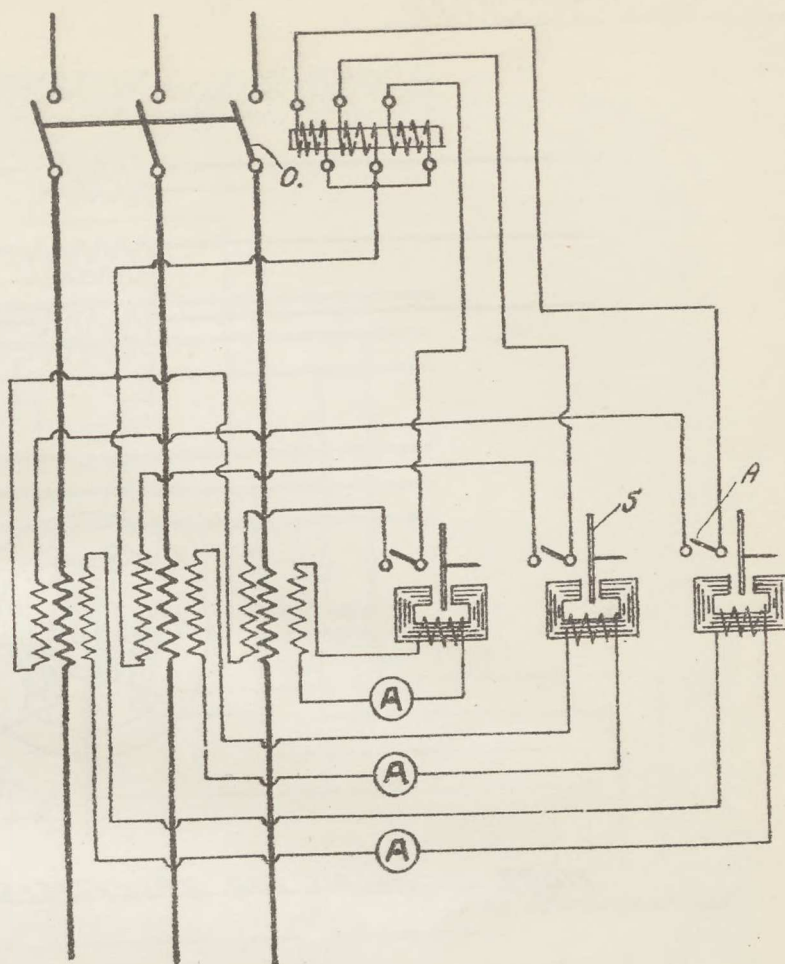


FIG. 74. MAKSIMALRELAIS MED VEKSELSTRØMSUDLØSNING.

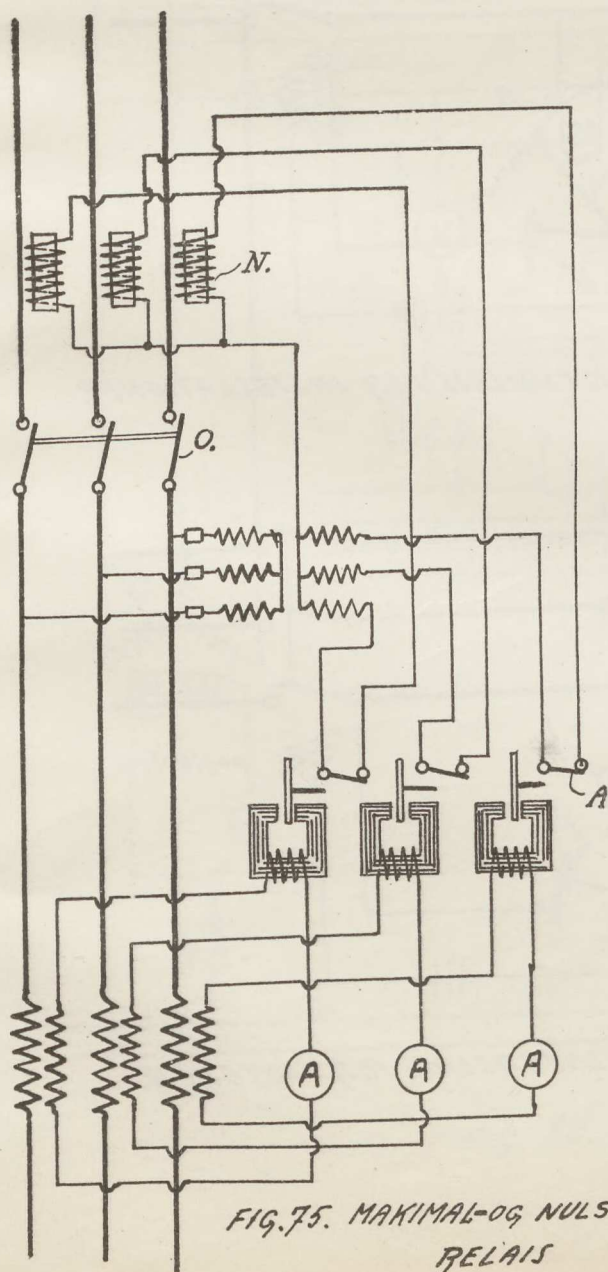


FIG. 75. MAKSIMAL-OG NULSPENDING-RELAIS

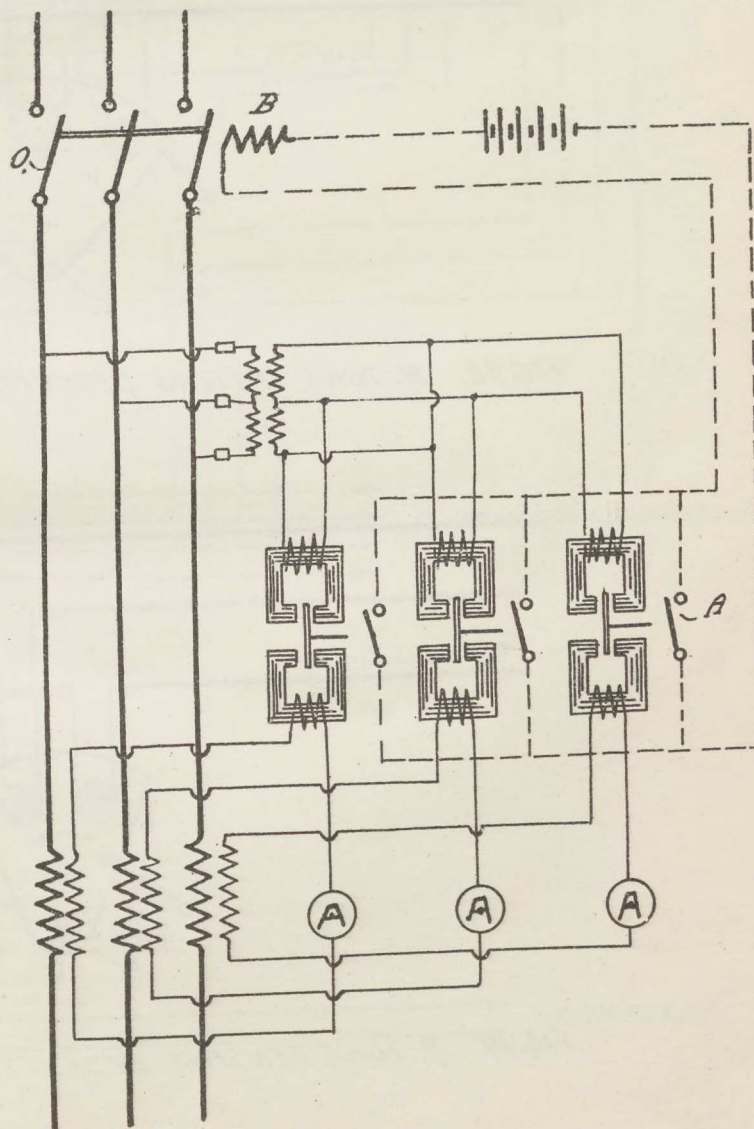


FIG. 76. MAKSIMAL-OG TILBAGESTRØMS RELAIS.

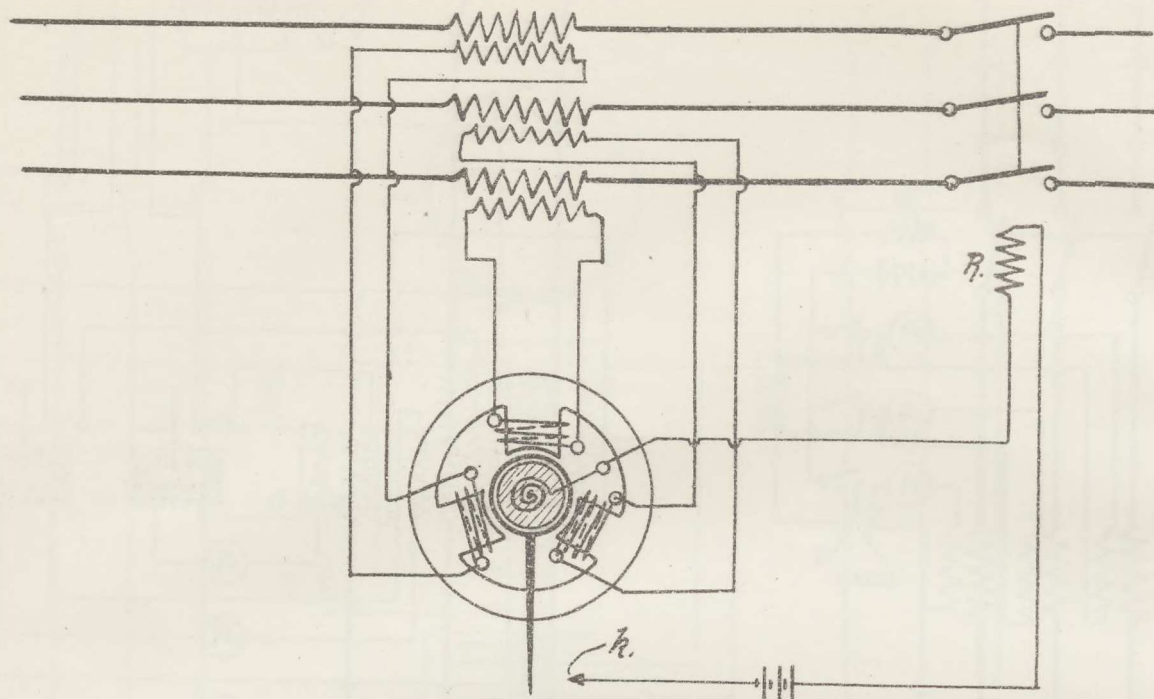


FIG. 77. RELAIS FOR BESKYTTELSE MOD TRAADBRUD.

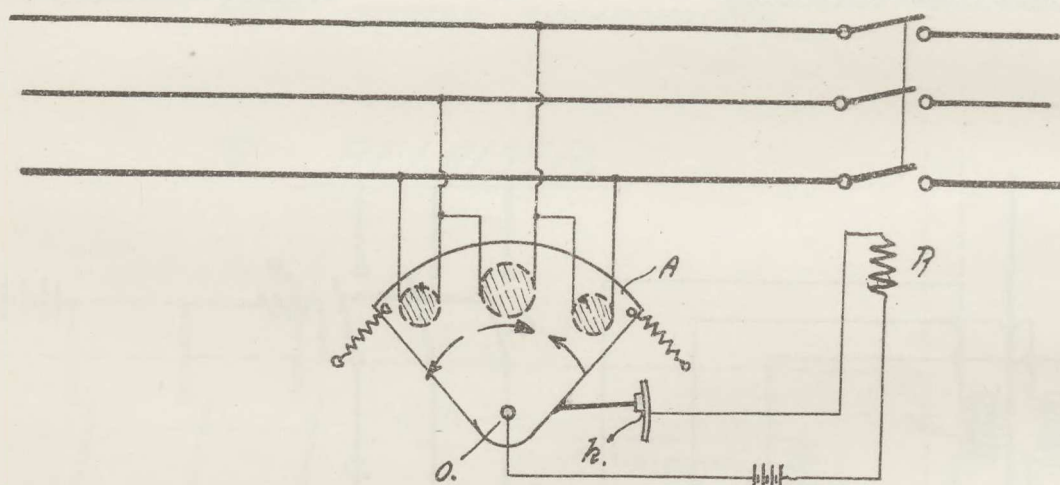


FIG. 78. P. JOHS. JENSENS BESKYTTELSERELAI FOR INSTALLATIONER

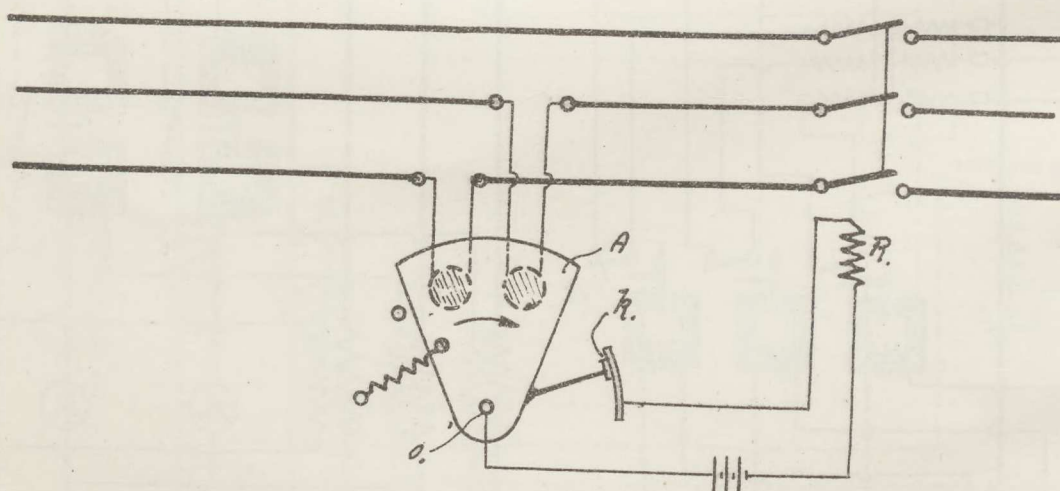


FIG. 79. P. JOHS. JENSENS BESKYTTELSERELAI FOR MOTORER.

V. INSTRUMENTER OG APPARATER I GENERATOR.

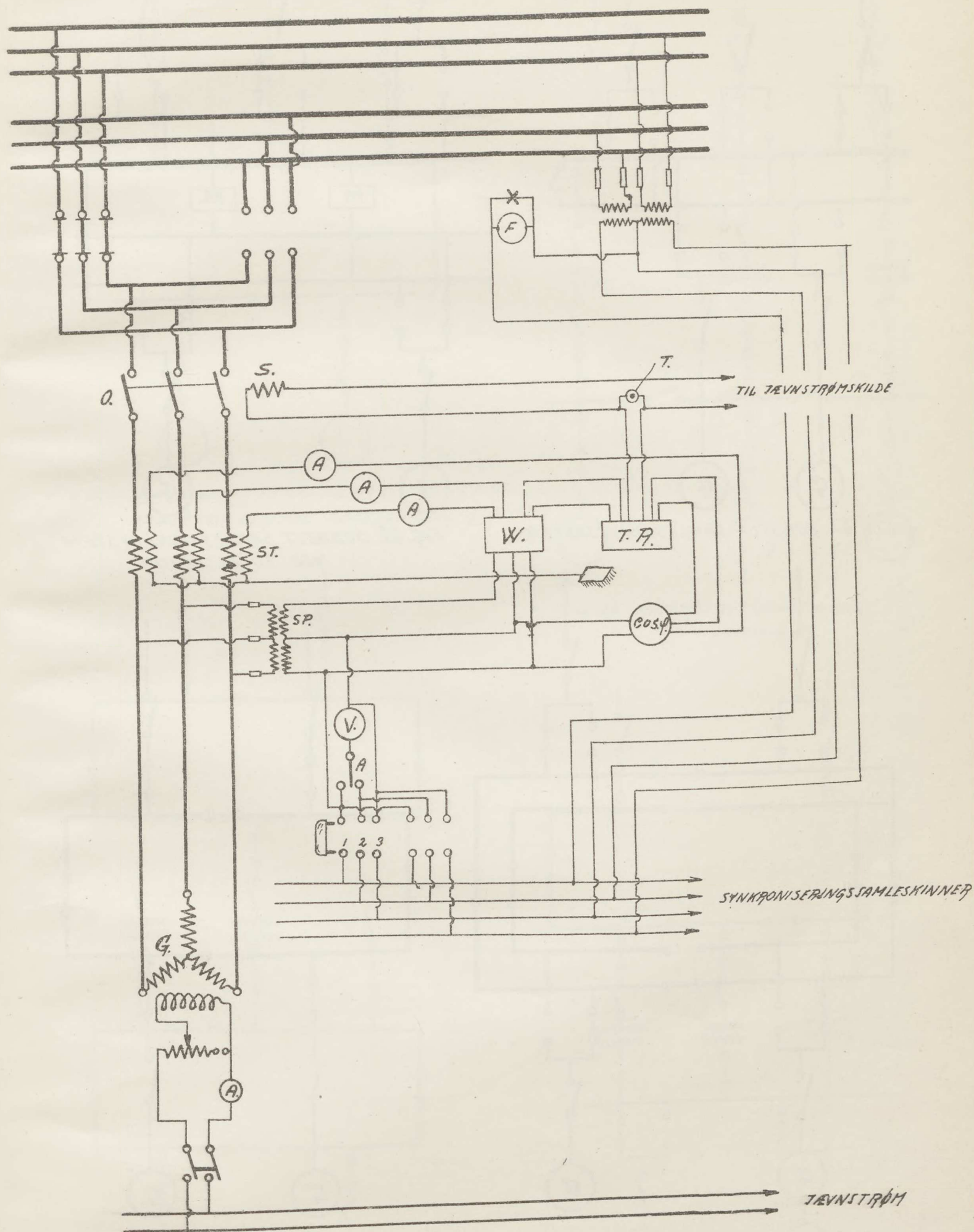


FIG. 80.

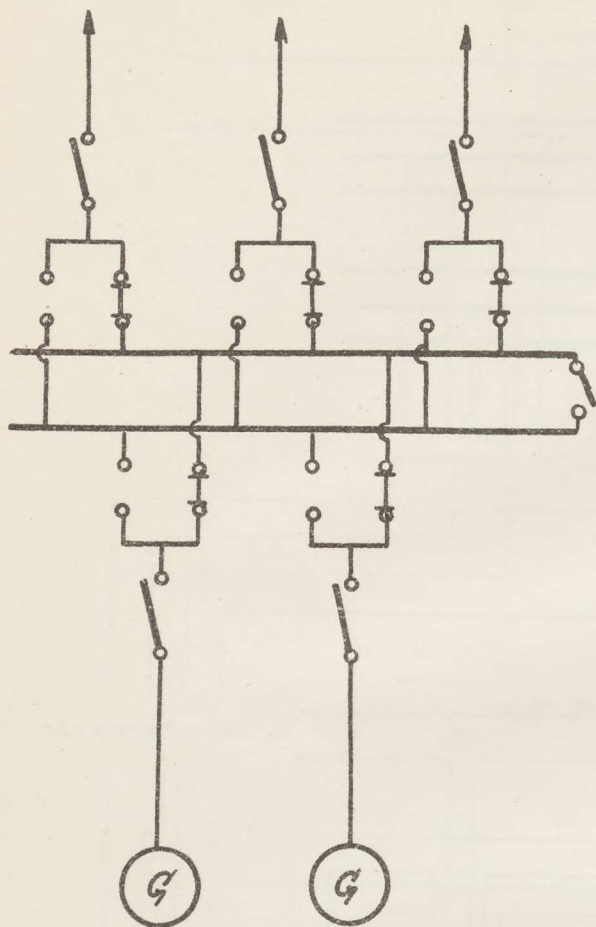


FIG. 81. DOBBELT SAMLESKINNESYSTEM.

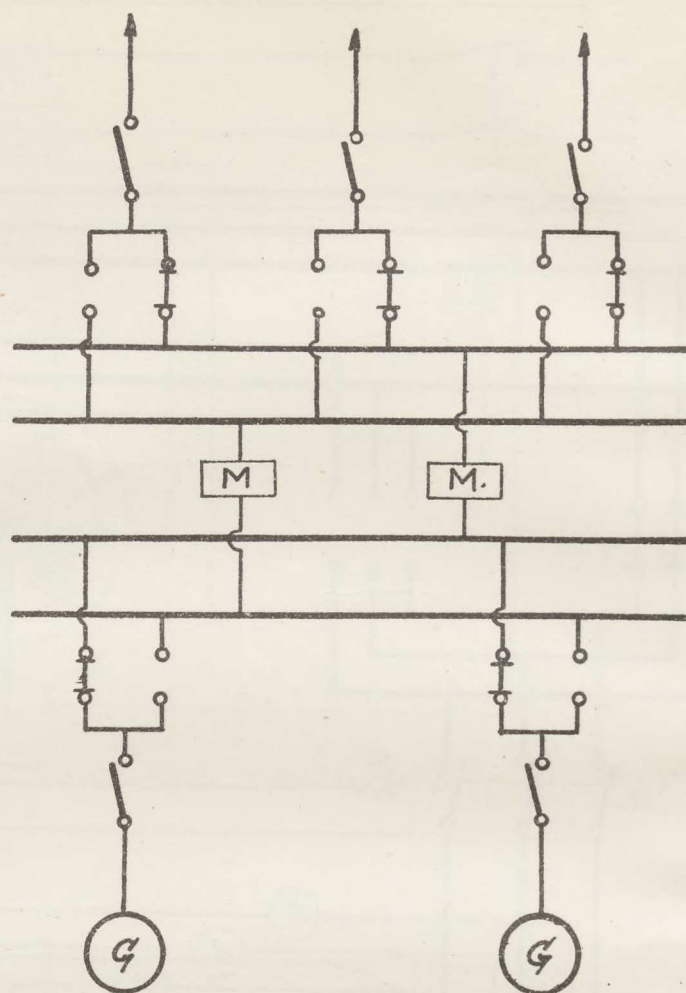


FIG. 82. DOBBELT SAMLESKINNESYSTEM.
MED TOTALISATOR.

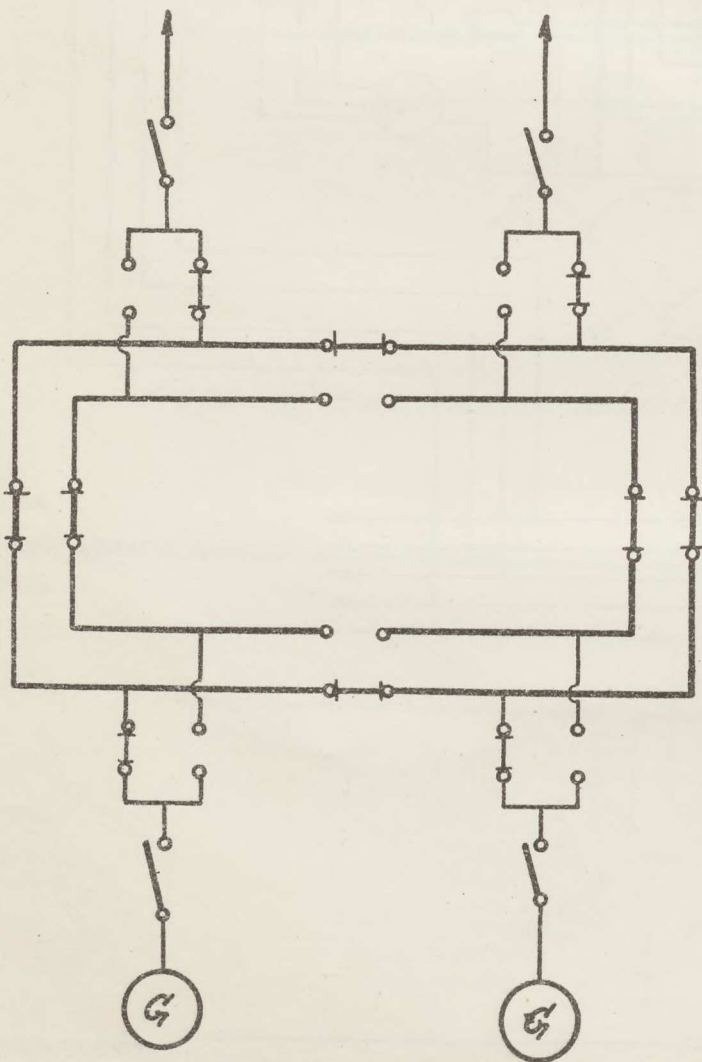


FIG. 83. DOBBELT RINGSAMLESKINNESYSTEM.

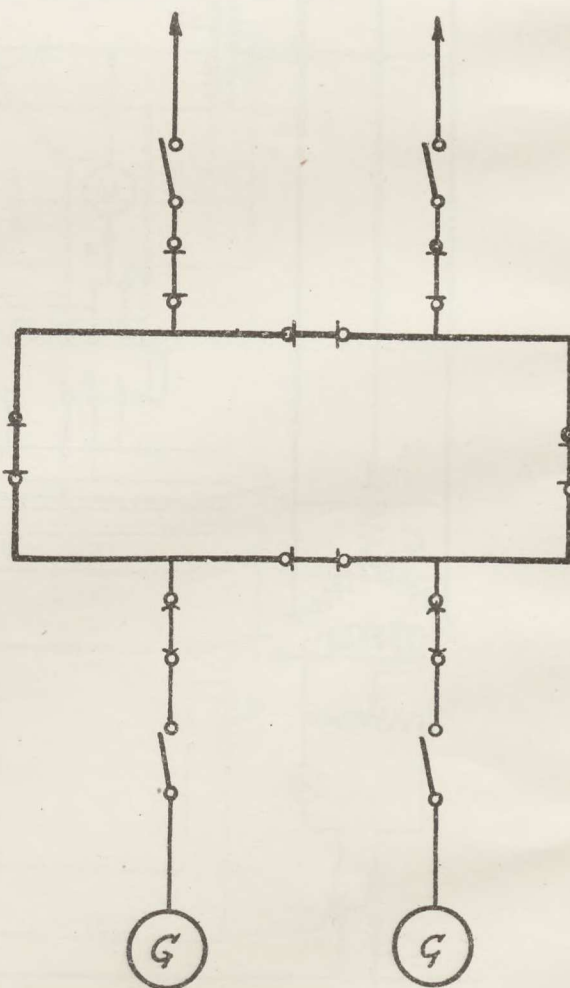


FIG. 84. RINGSAMLESKINNESYSTEM.

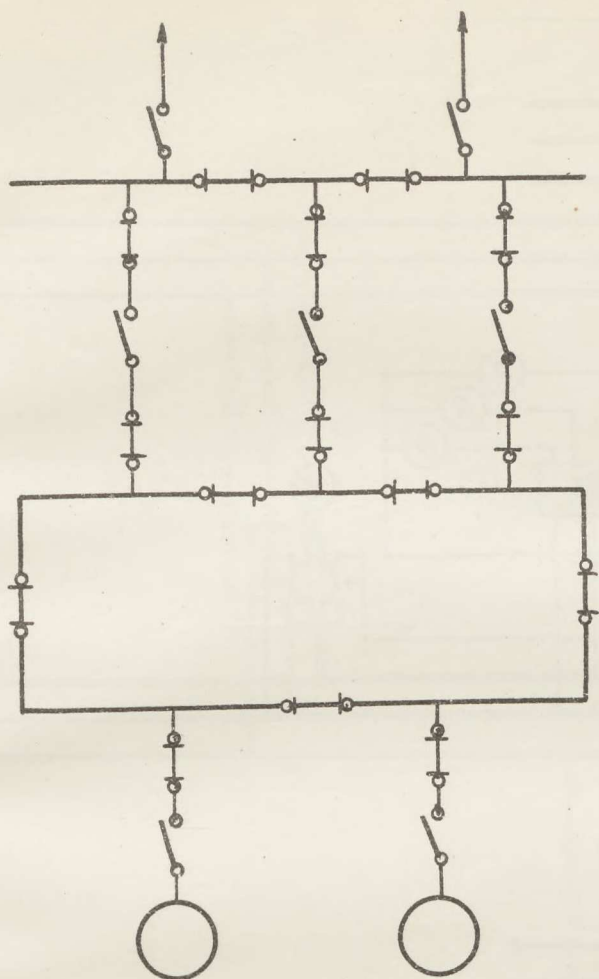


FIG 85. RINGSAMLESKINNER MED SEÆRLIGE SAMLESKINNER FOR FØDELEDNINGER

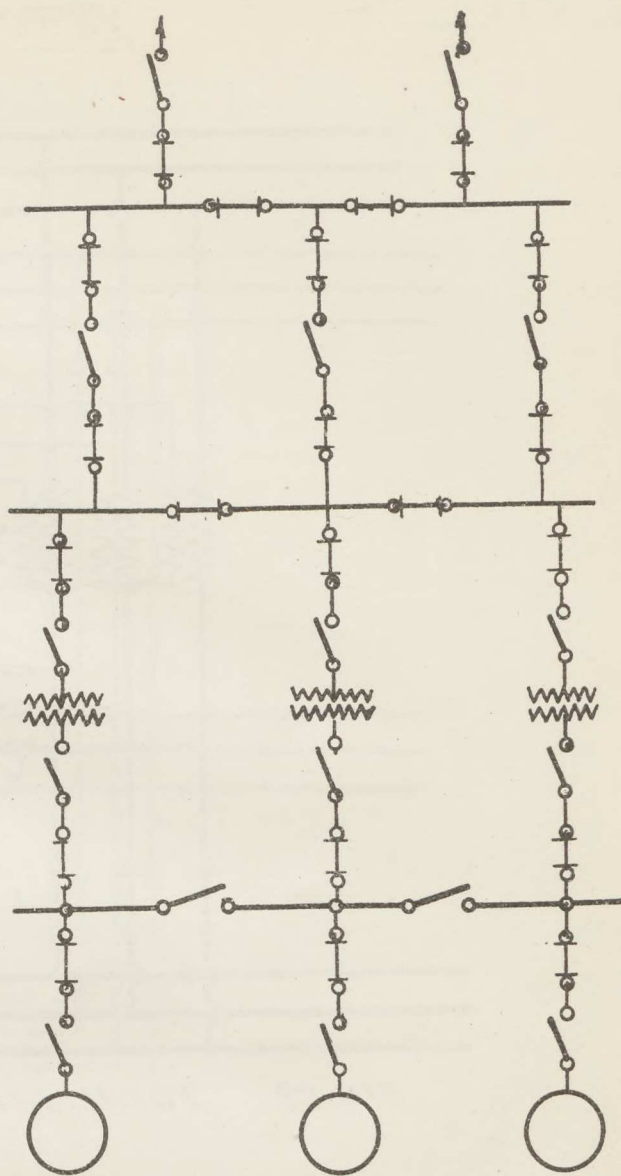


FIG 86 HJÆLPESAMLESKINNER MED TRANSFORMATOR.

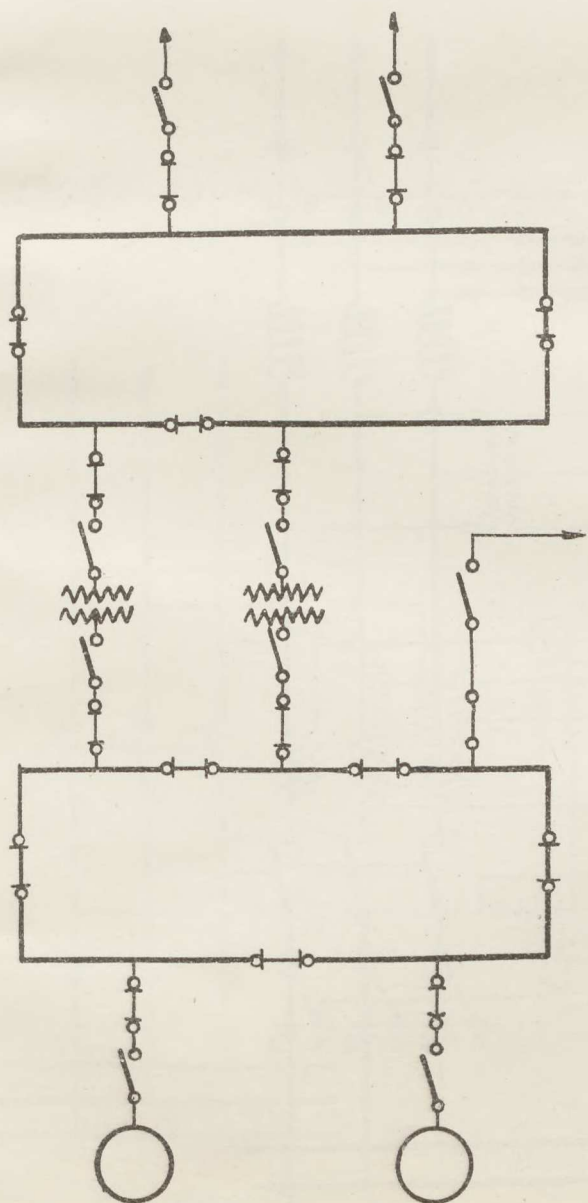


FIG 87 SYSTEM MED TO CENTRALSPENDINGER

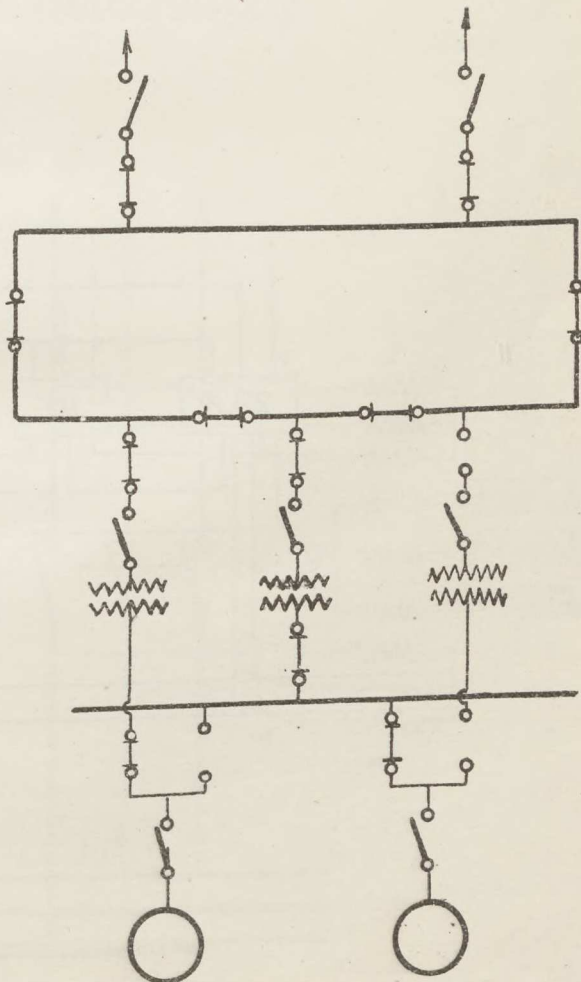


FIG 88. HJÆLPESAMLESKINNER MED RESERVE-TRANSFORMATOR.

VII TOTALISATOR.

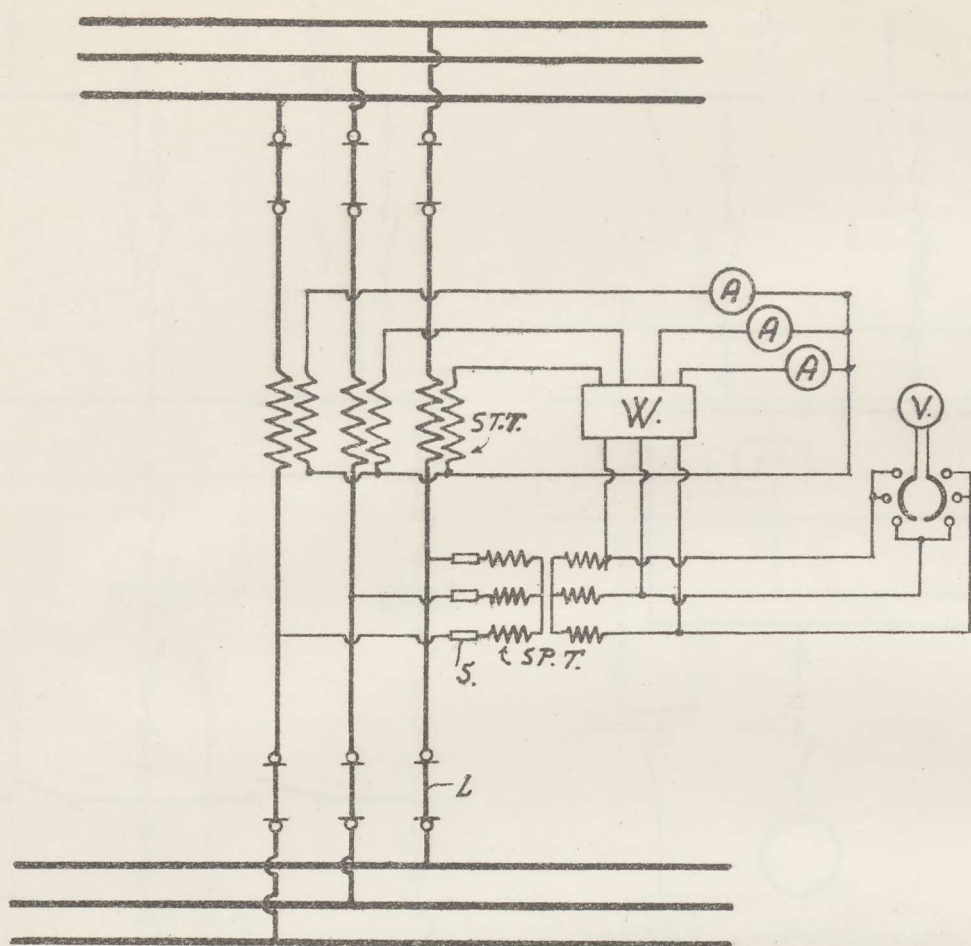


FIG. 89. TOTALISATOR

VIII. FØDELEDNINGER

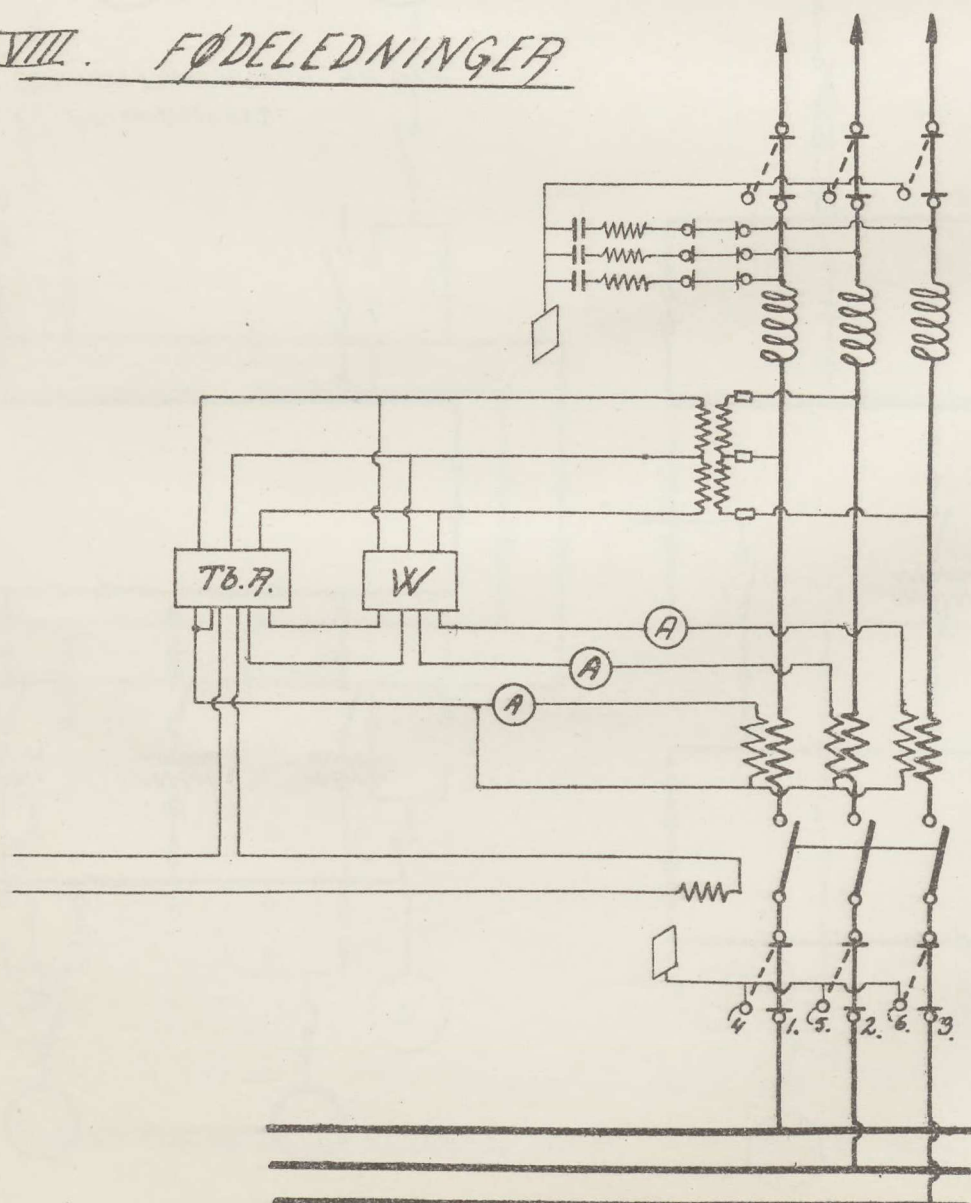


FIG. 90. APPARATER OG INSTRUMENTER I FØDELEDNING.

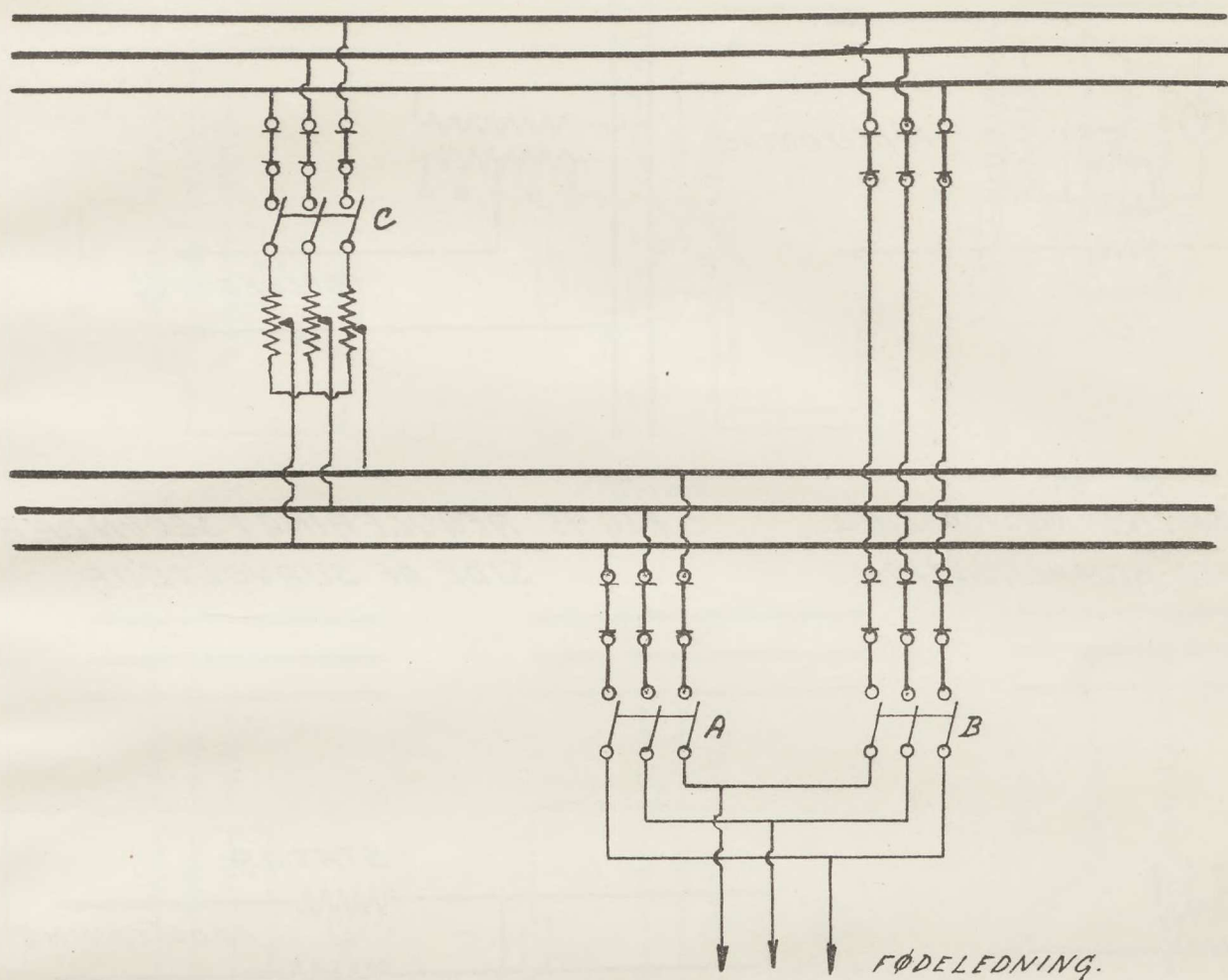


FIG. 91. ANORDNING FOR OPLADNING AF FØDELEDNING.

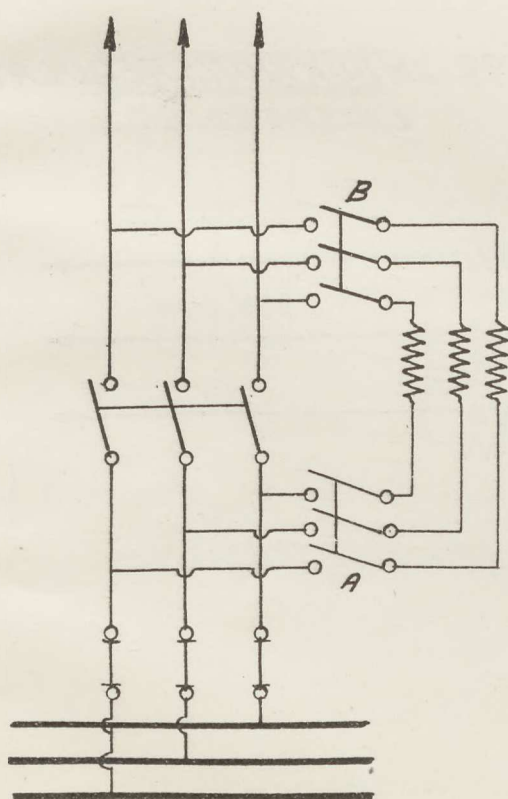


FIG. 92.

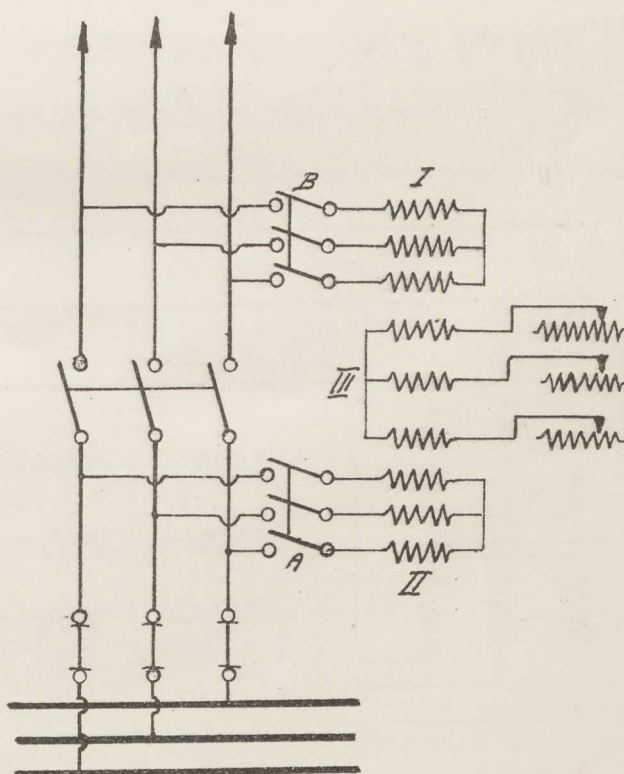


FIG. 93.

LANGSOM INDKOBLING AF FØDELEDNING.

IX SPÆNDINGSREGULERING

PL. ~~XXXVIII~~

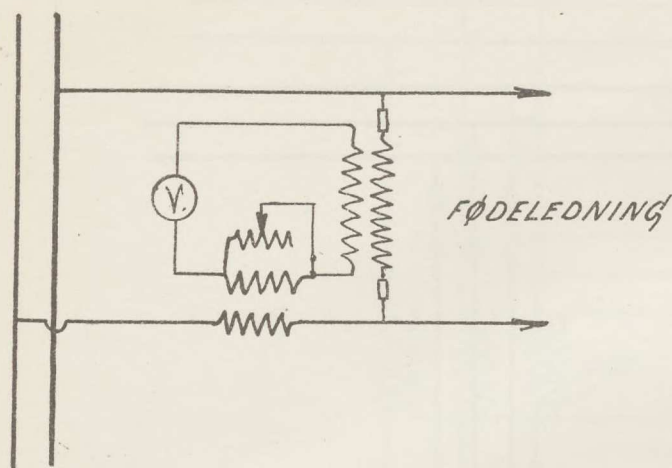


FIG. 94. SPÆNDINGSMAALING
VED KOMPENSATION.

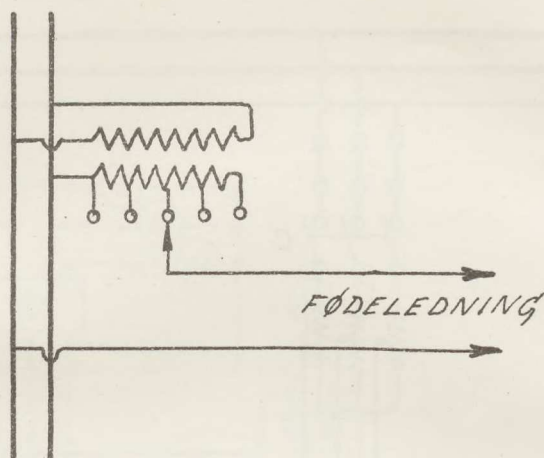


FIG. 95. REGULERING I SECUNDÆR
SIDE AF SURVOLTEUR.

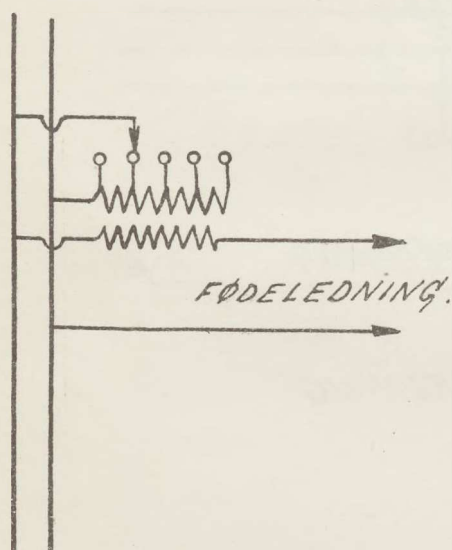


FIG. 96. REGULERING I PRI-
MÆR SIDE AF SURVOLTEUR

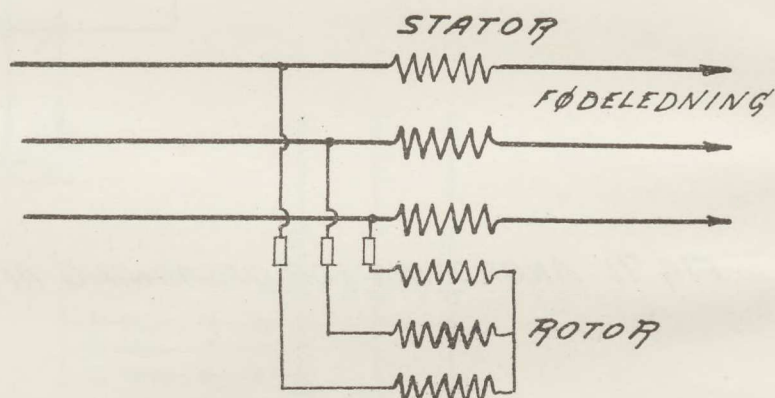


FIG. 97. INDUKTIONSREGULATOR.
LAVSPÆNDING.

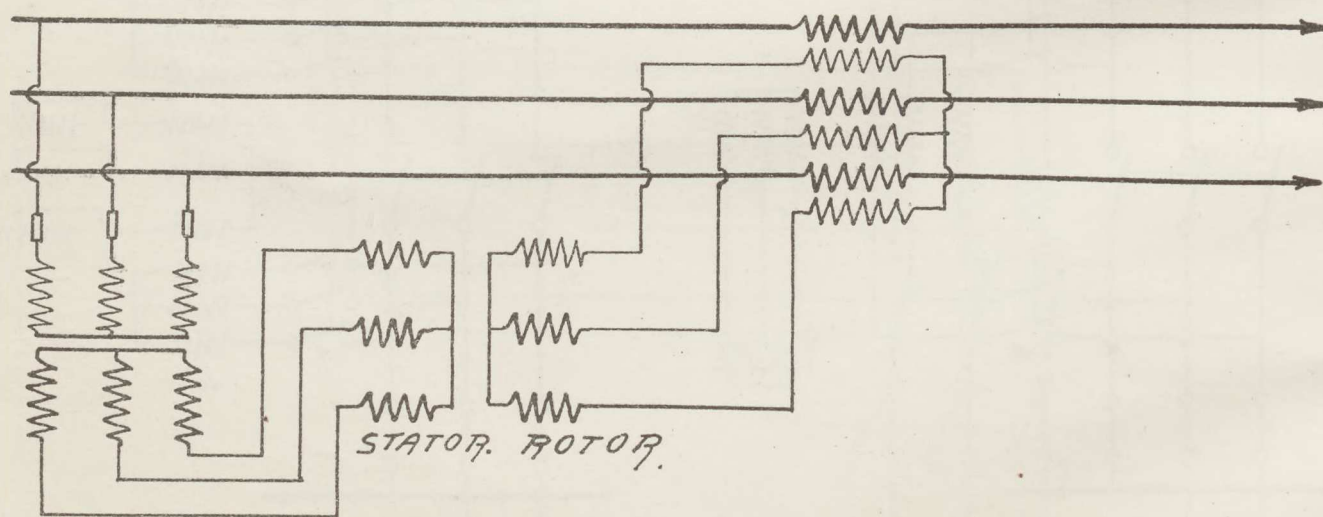


FIG. 98. ANORDNING AF INDUKTIONSREGULATOR VED HØJSPÆNDING.

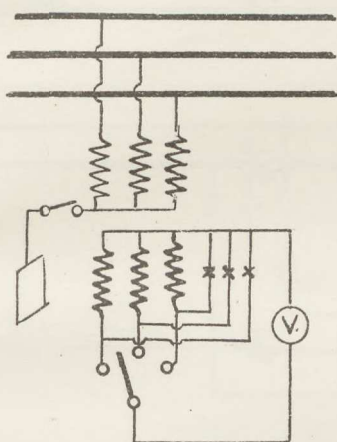


FIG. 99.

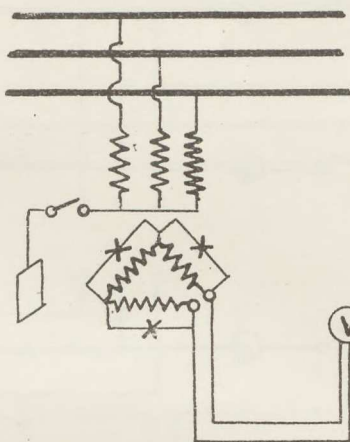


FIG. 100.

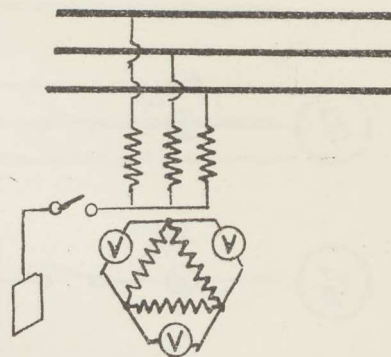


FIG. 101.

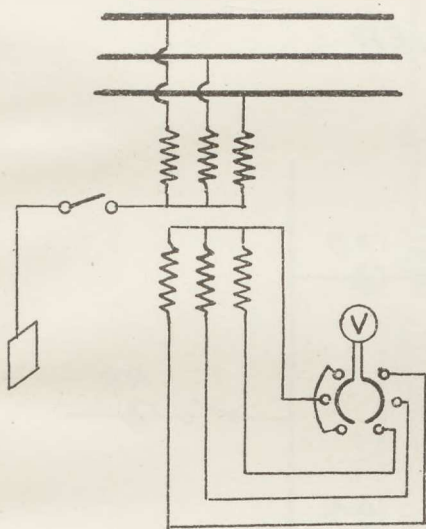


FIG. 102.

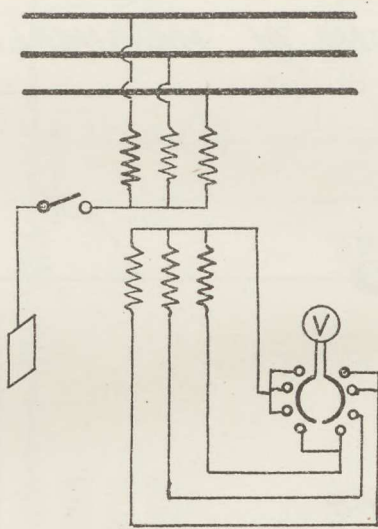


FIG. 103.

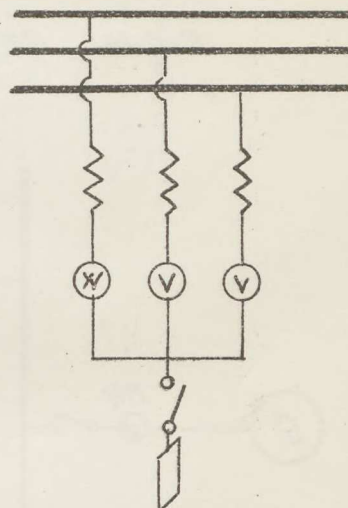


FIG. 104. STATISK. VOLTMEETER

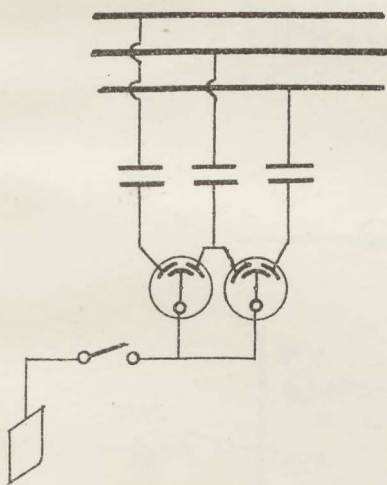


FIG. 105. STATISK VOLTMEETER

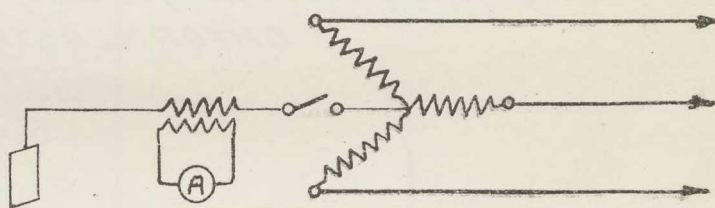


FIG. 106.

Fig. 106 og Fig. 107
vibrigelige. Ved
Indkølling af H.
byderen vil de 3
harmoniske fra
de tre Faser addere
ved, hvorved Am-
peremetret vil
give Udslog.

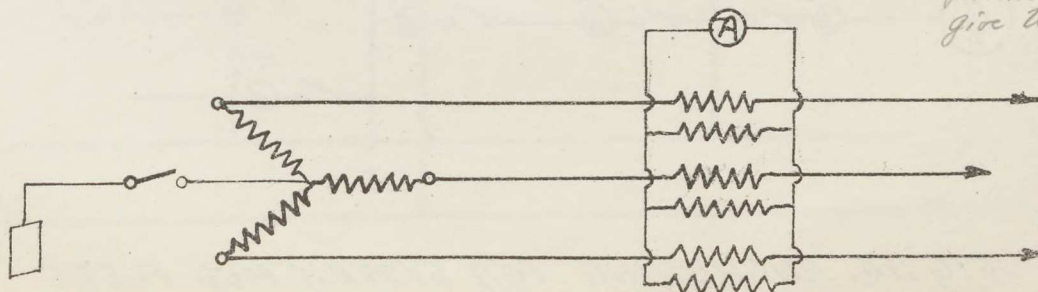


FIG. 107.

XI. ANORDNING AF RELAISER I GENERATOR-
PL. XL. OG FØDELEDNINGER.

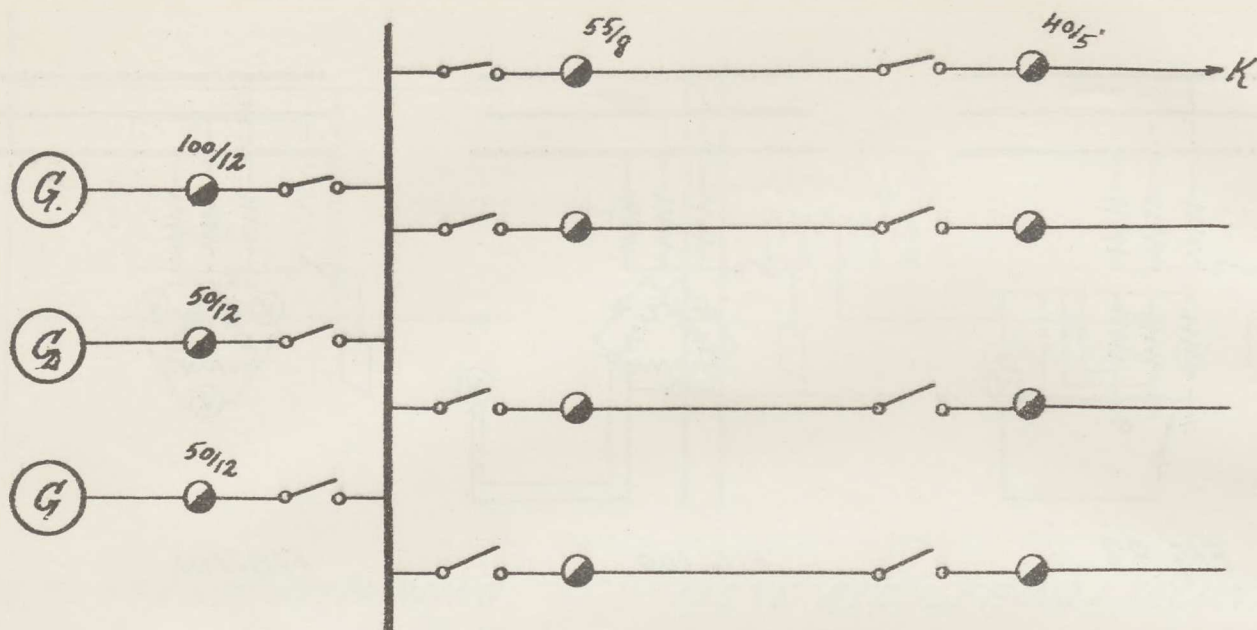


FIG 108. ANORDNING AF MAKSIMALRELAIER

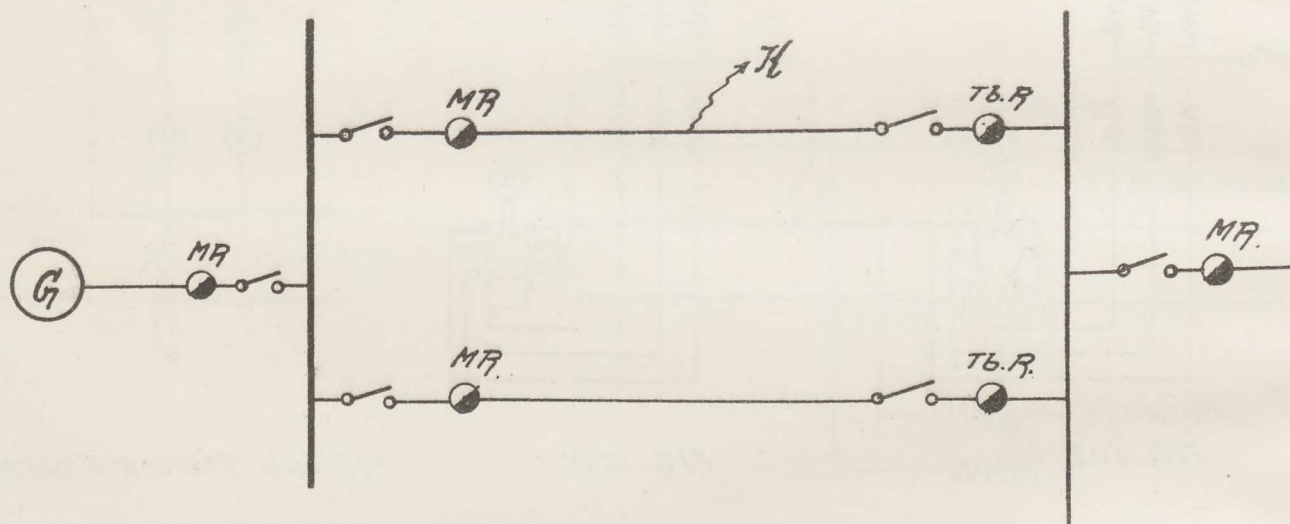


FIG 109. ANORDNING AF RELAIER I SYSTEM MED
OMFORMERSTATION.

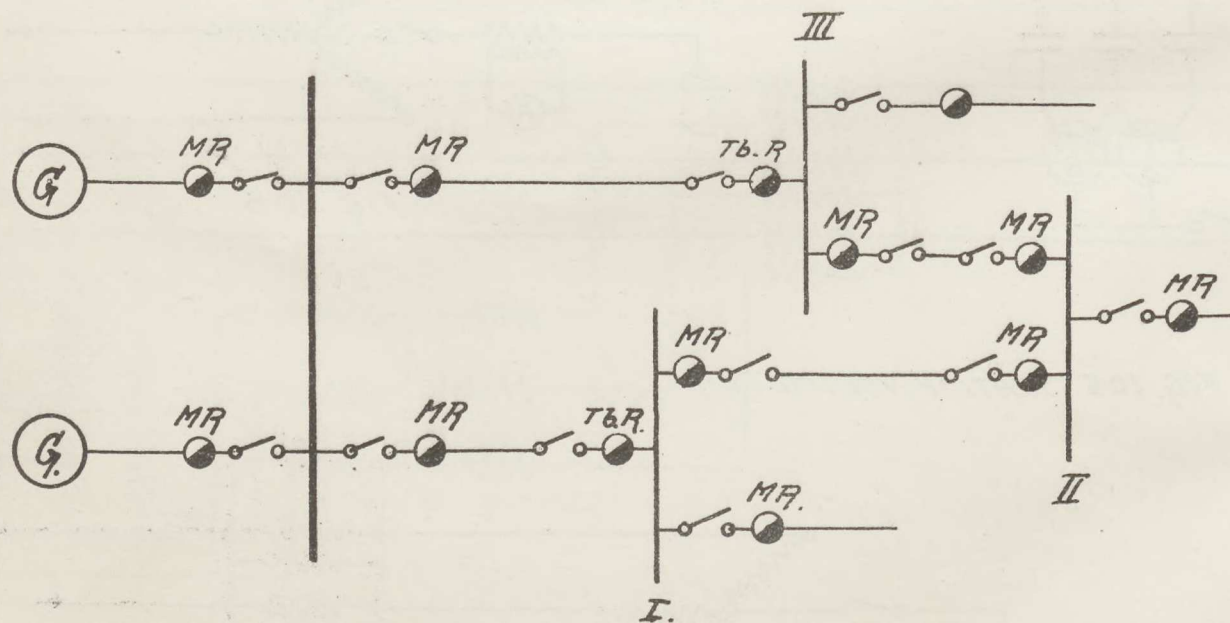


FIG 110. ANORDNING FOR SYSTEM MED FLERE
OMFORMERSTATIONER.

C. OMFORMERSTATIONER.

I. ETANKEROMFORMER

PL. XLI.

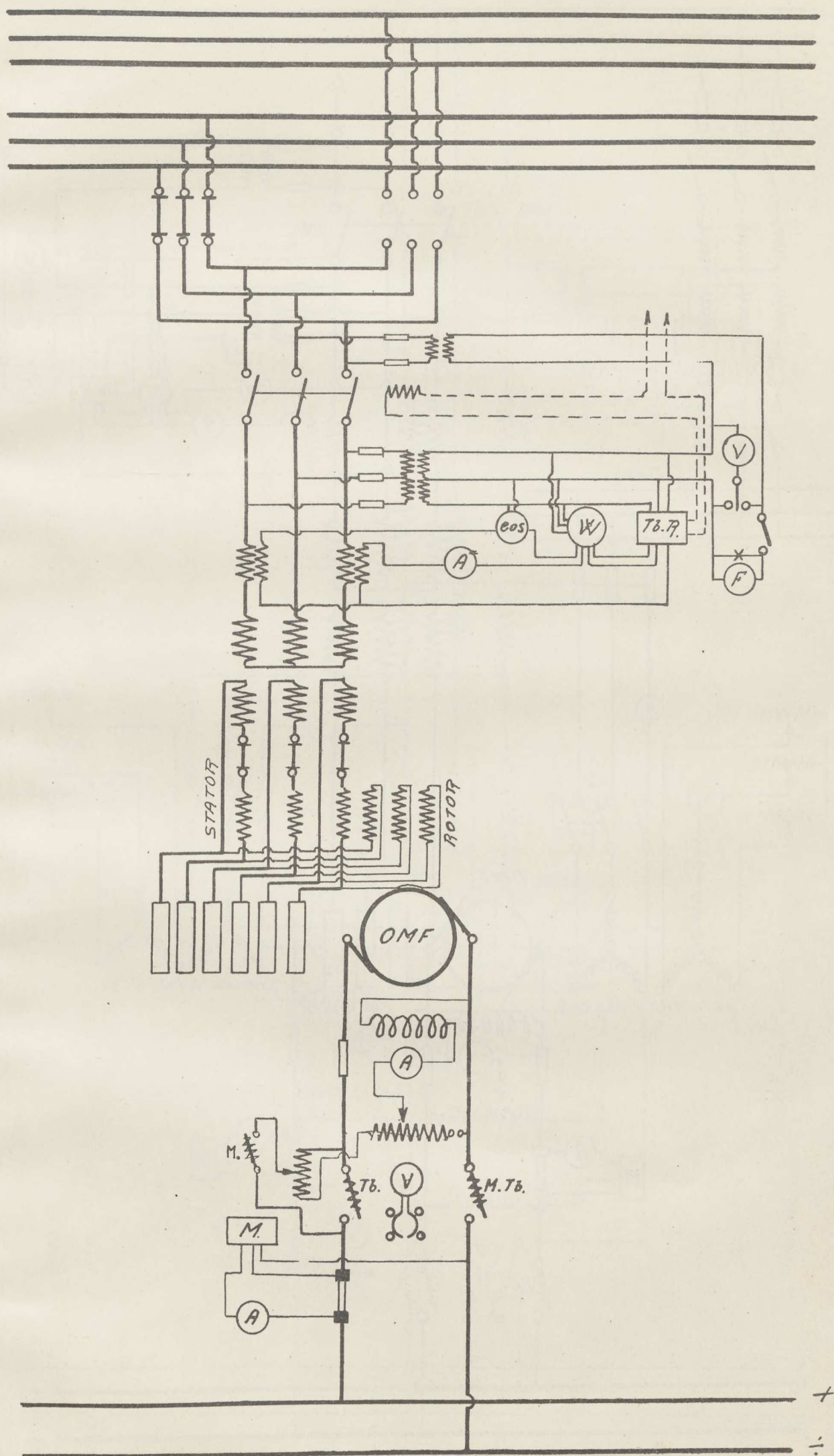


FIG. III. SEKSFASE OMFORMER MED INDUKTIONSREGULATOR.

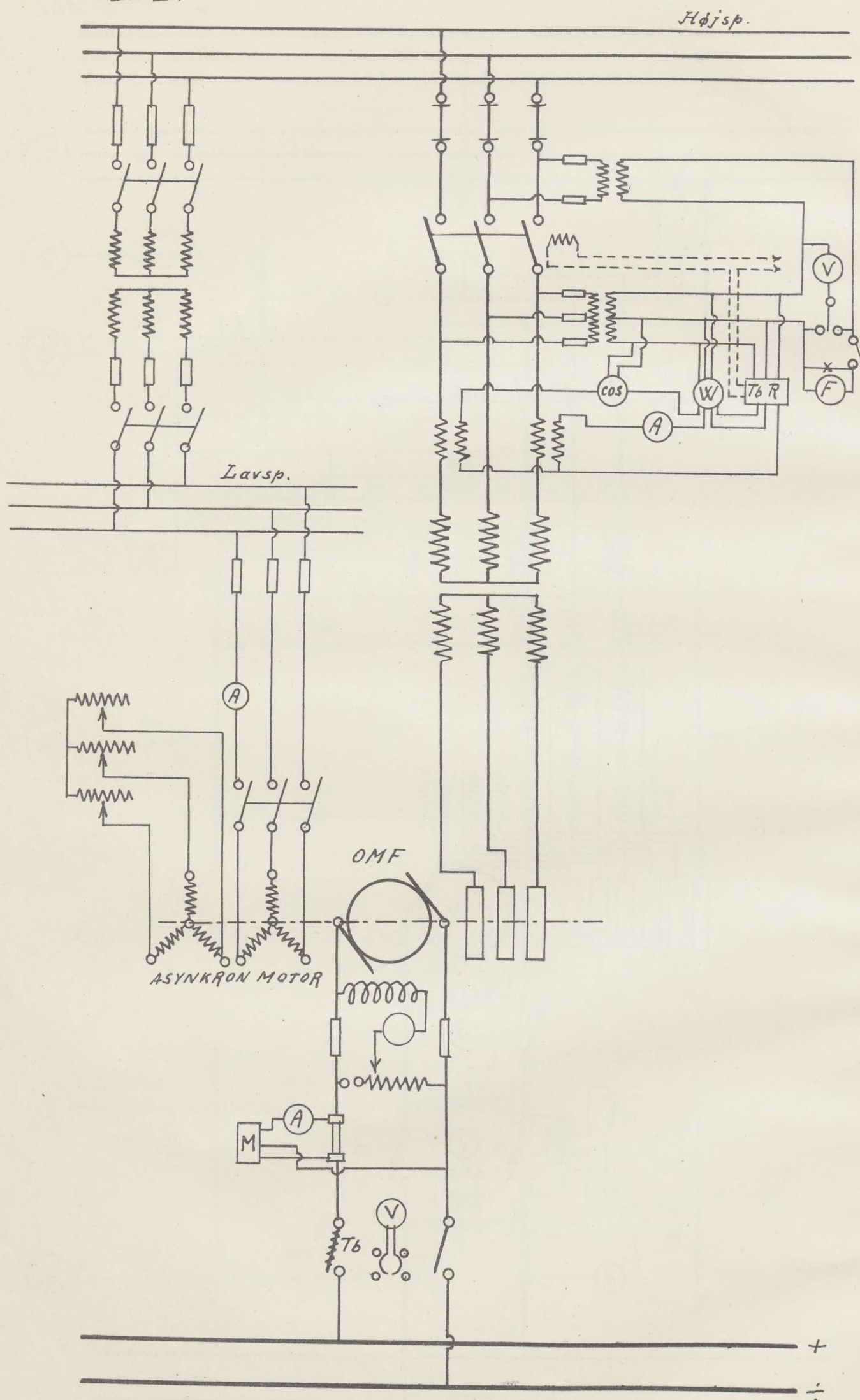


FIG 112. I GANGSÆTNING MED ASYNKRON MOTOR

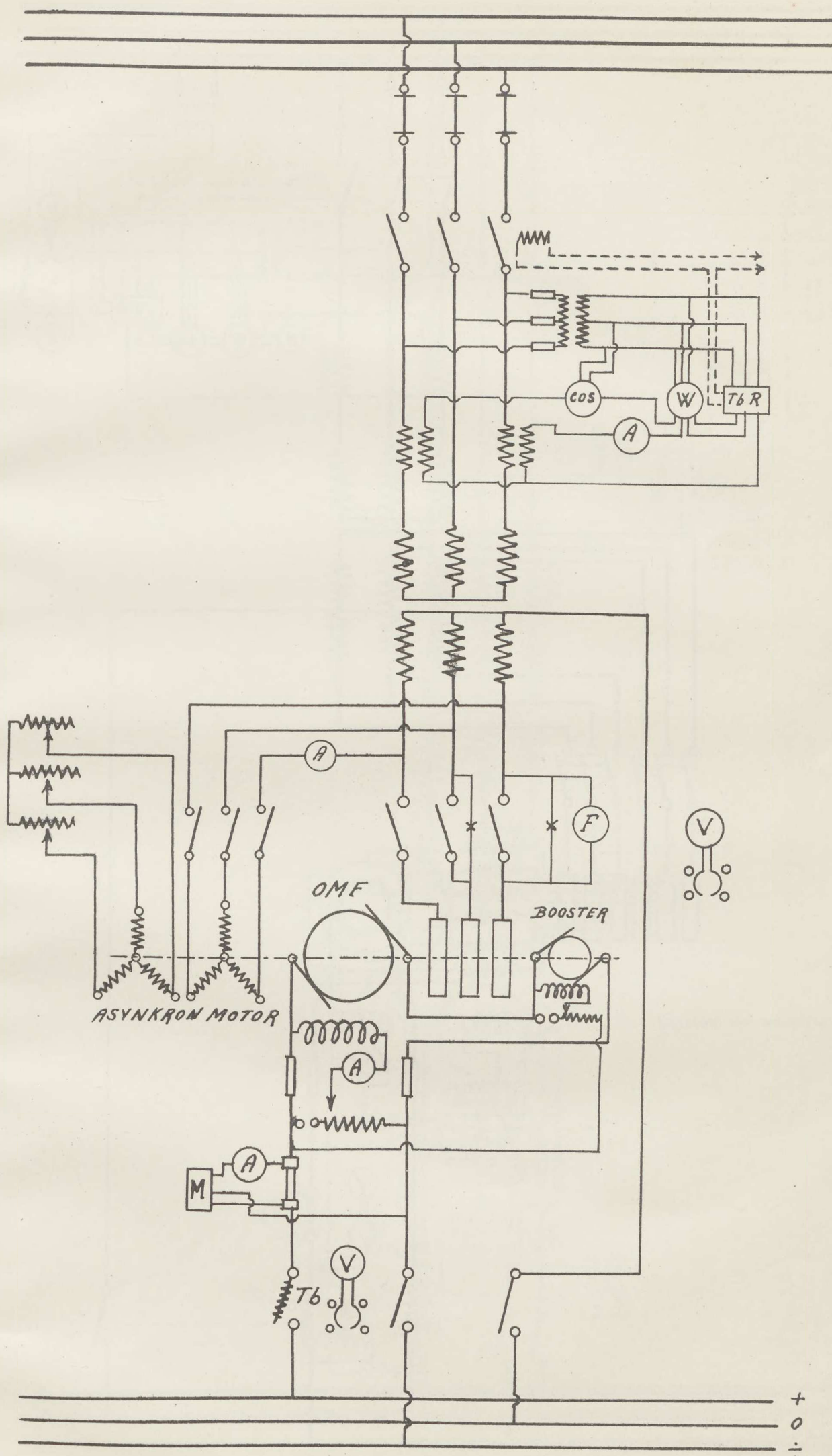


FIG 113 IQANQSETNING MED ASYNKRON MOTOR

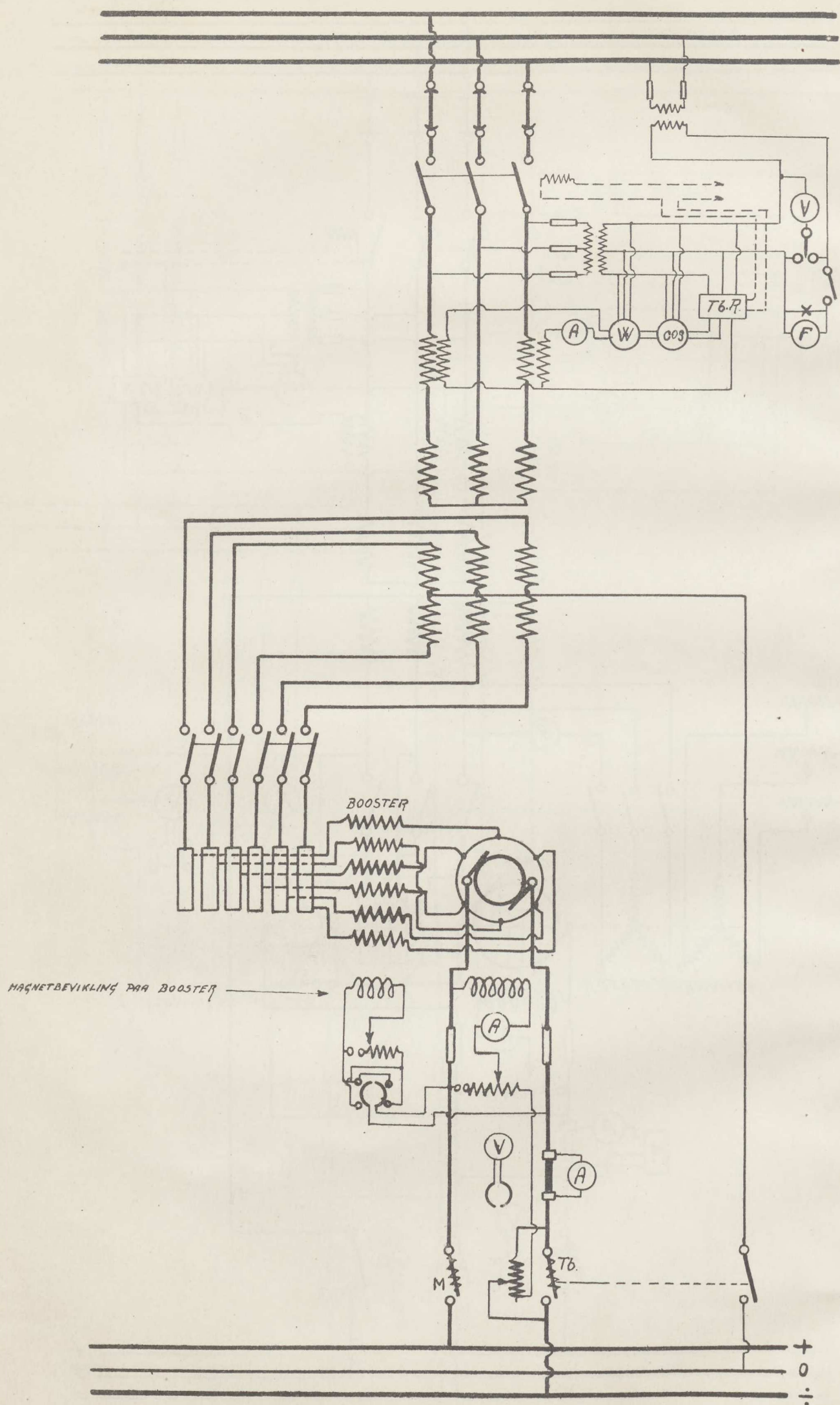


FIG. 114. SPÆNDINGREGULERING VED SYNKRON. BOOSTER.

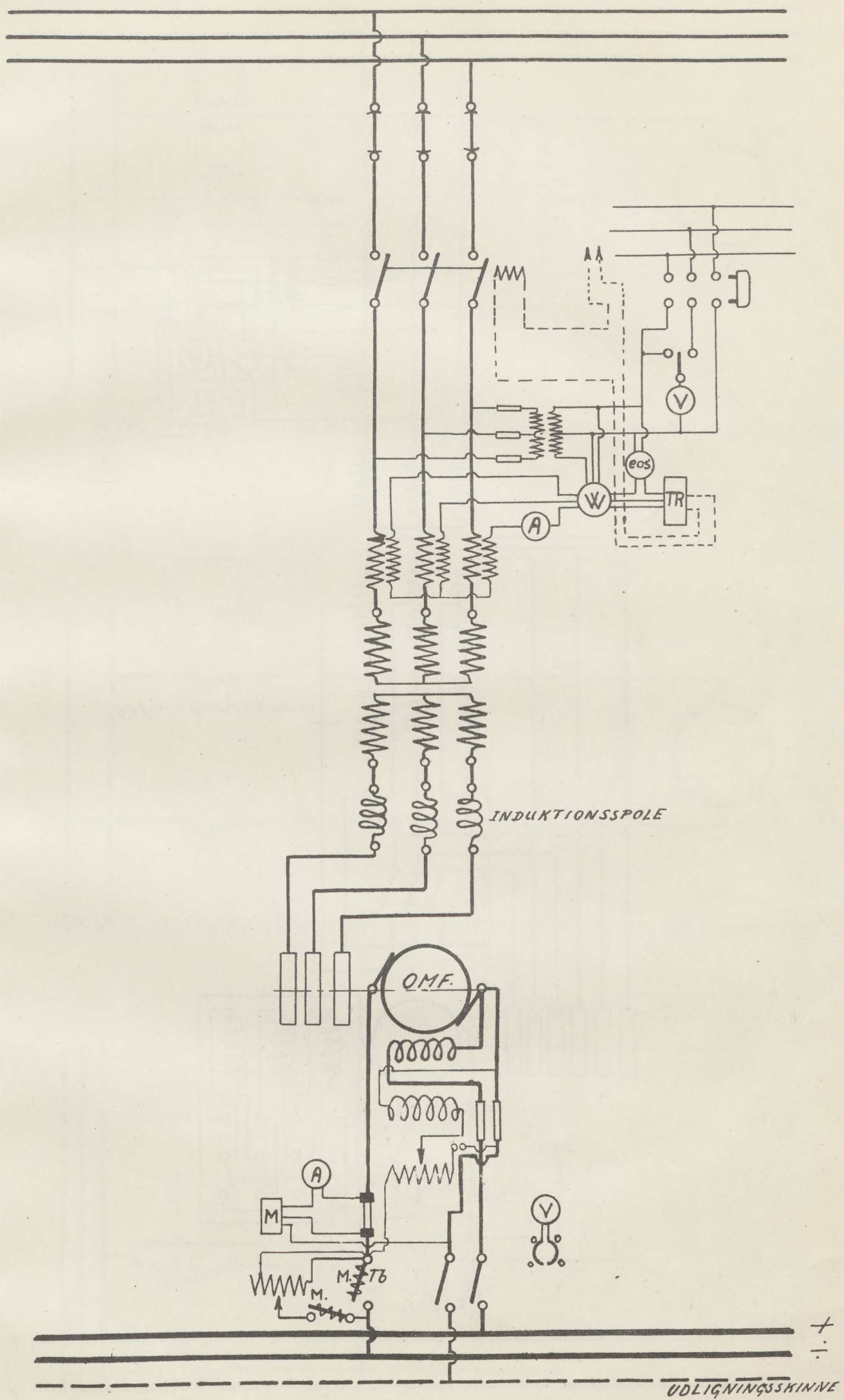


FIG. 115. KOMPOUNDERET OMFORMER.

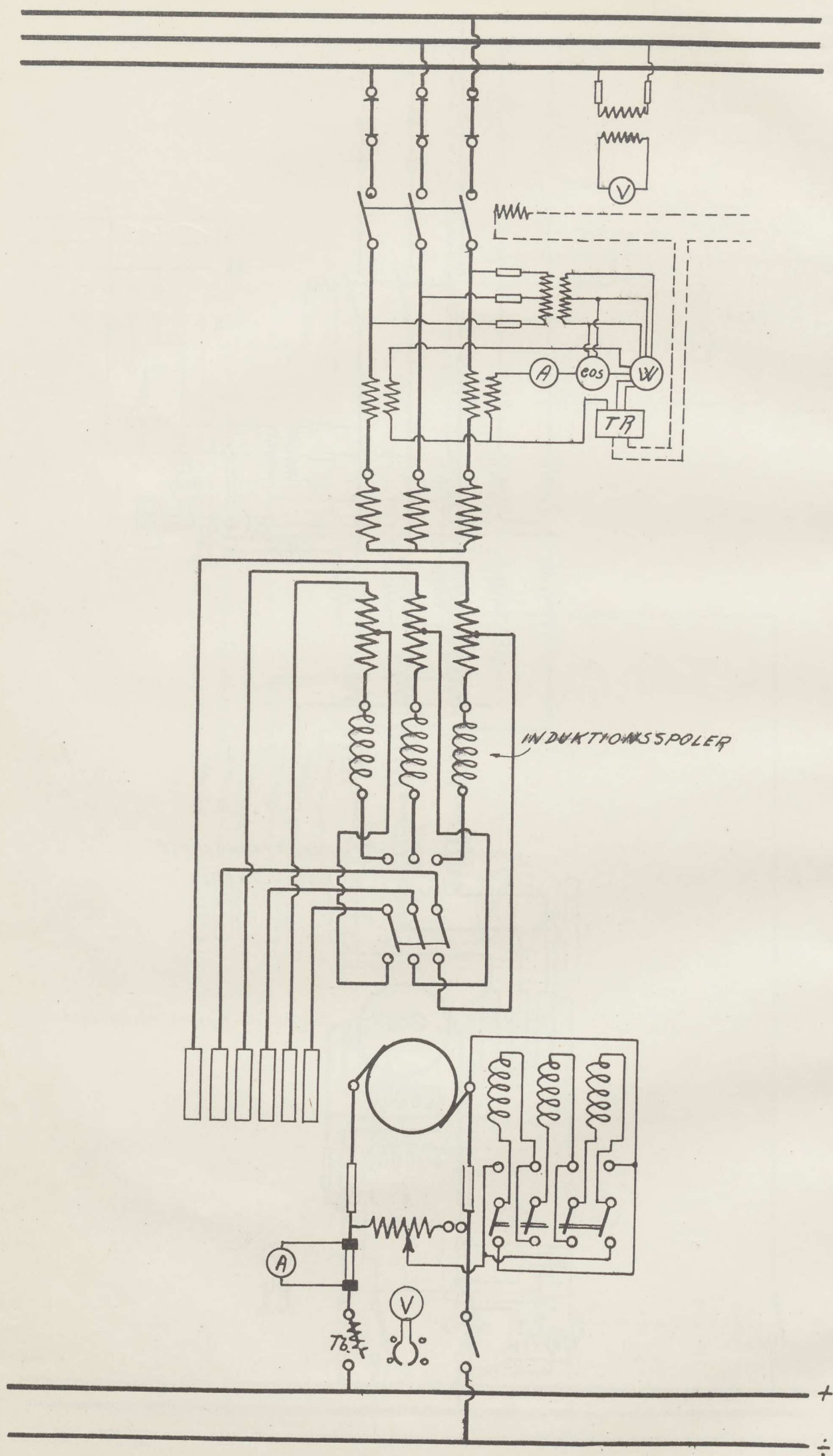


FIG. 116. ANORDNING FOR ASYNKRON IGANGSÆTNING.

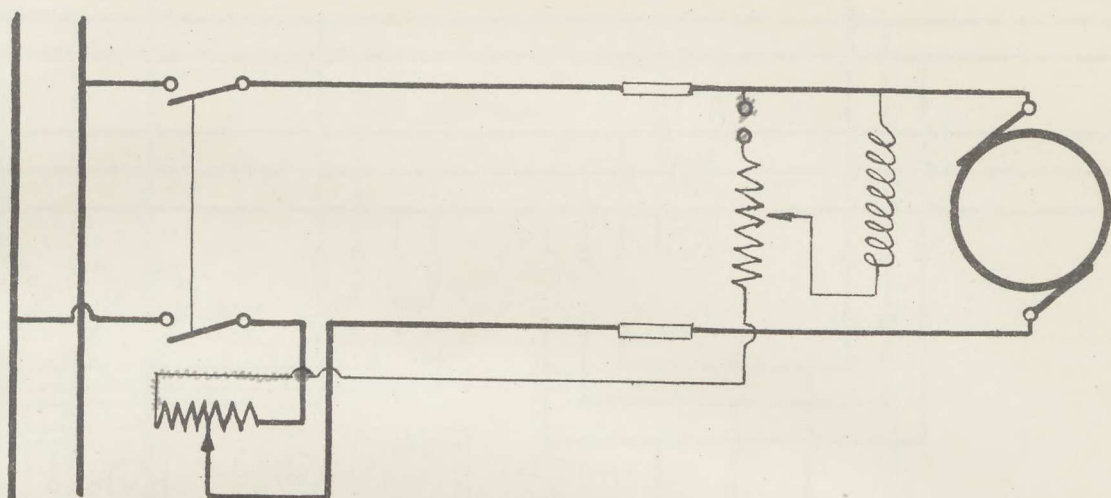


FIG. 117. IGANGSÆTNINGSANORDNING FOR MINDRE OMFORMERE.

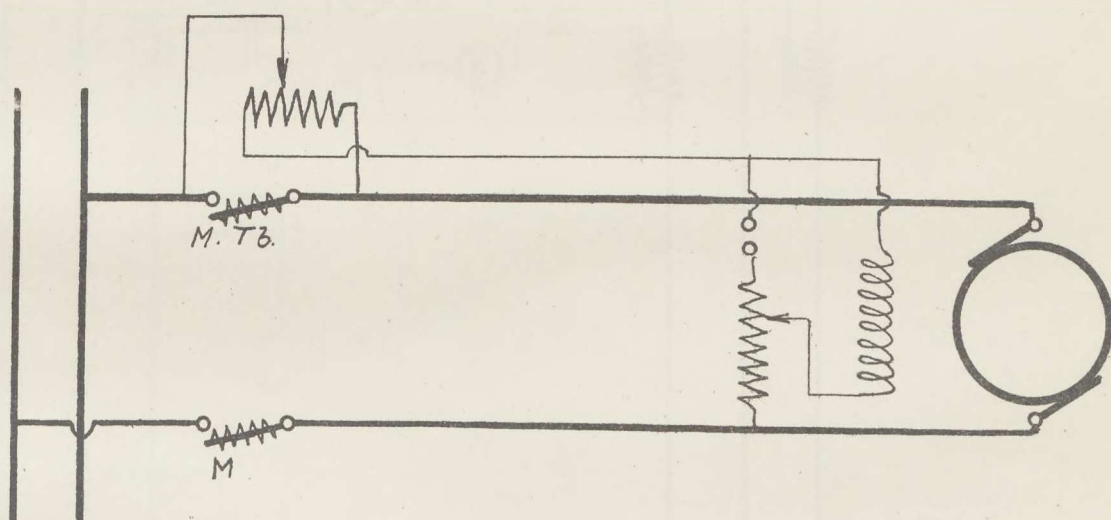


FIG. 118. IGANGSÆTNINGSANORDNING FOR STØRRE OMFORMERE.

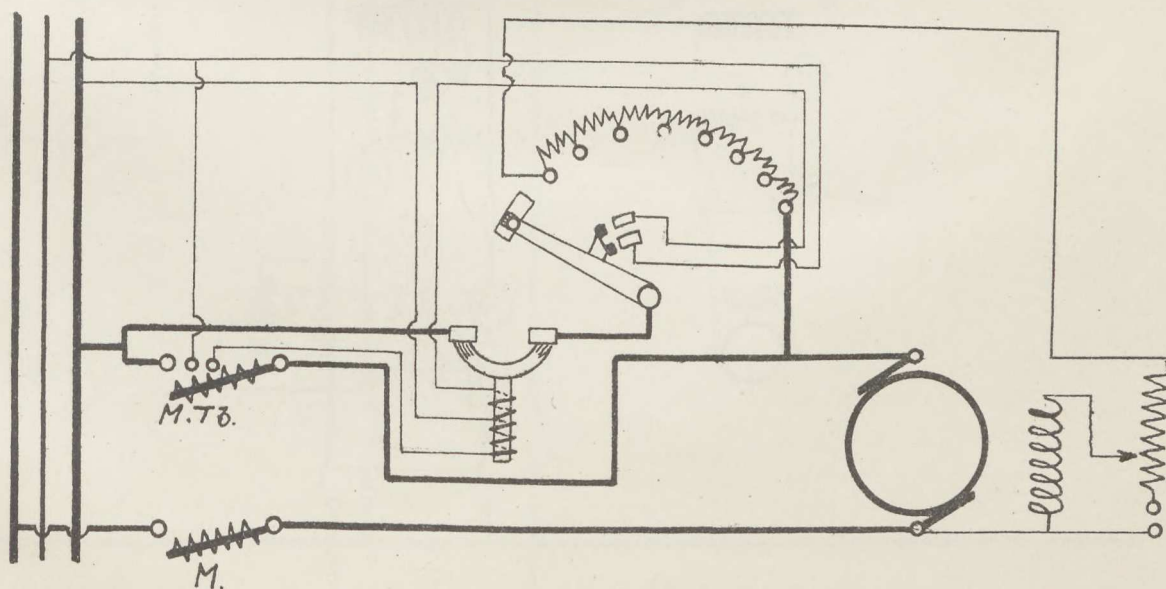


FIG. 119. ANORDNING AF FORBINDELSER FOR IGANGSÆTNING.

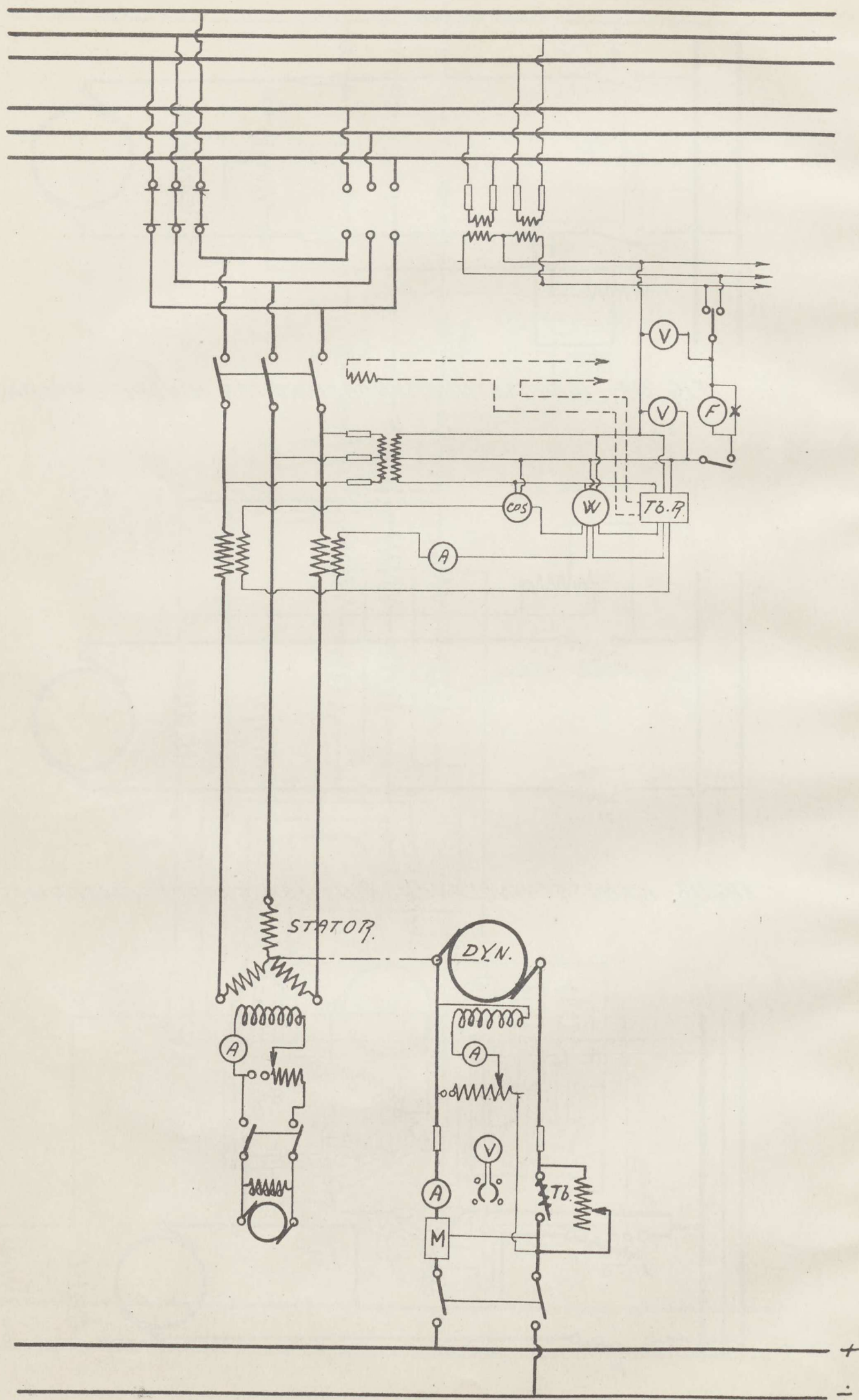


FIG 120. SYNCHRON MOTOR-GENERATOR.

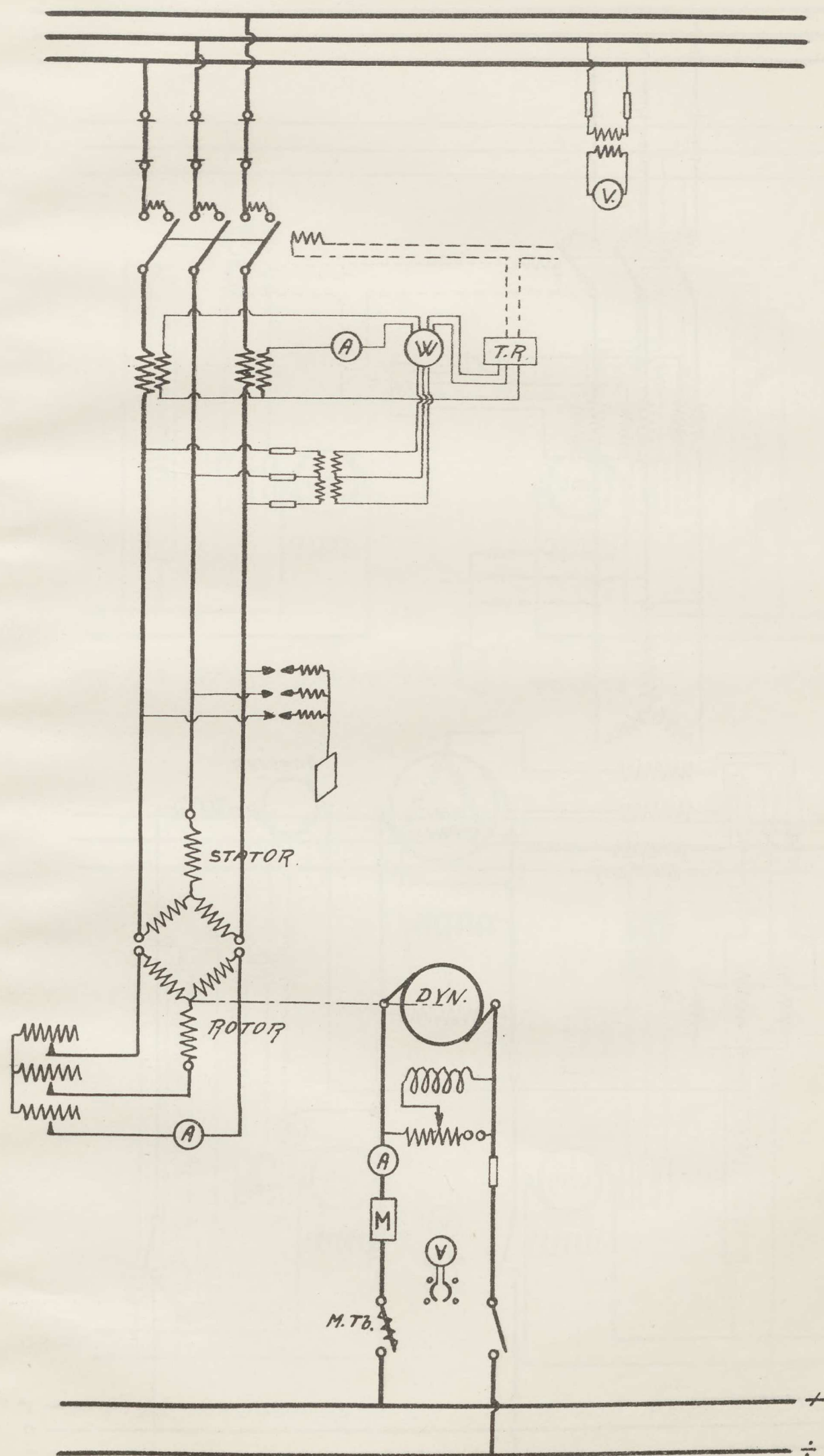


FIG. 121. ASYNKRON. MOTOR-GENERATOR.

PL. L.

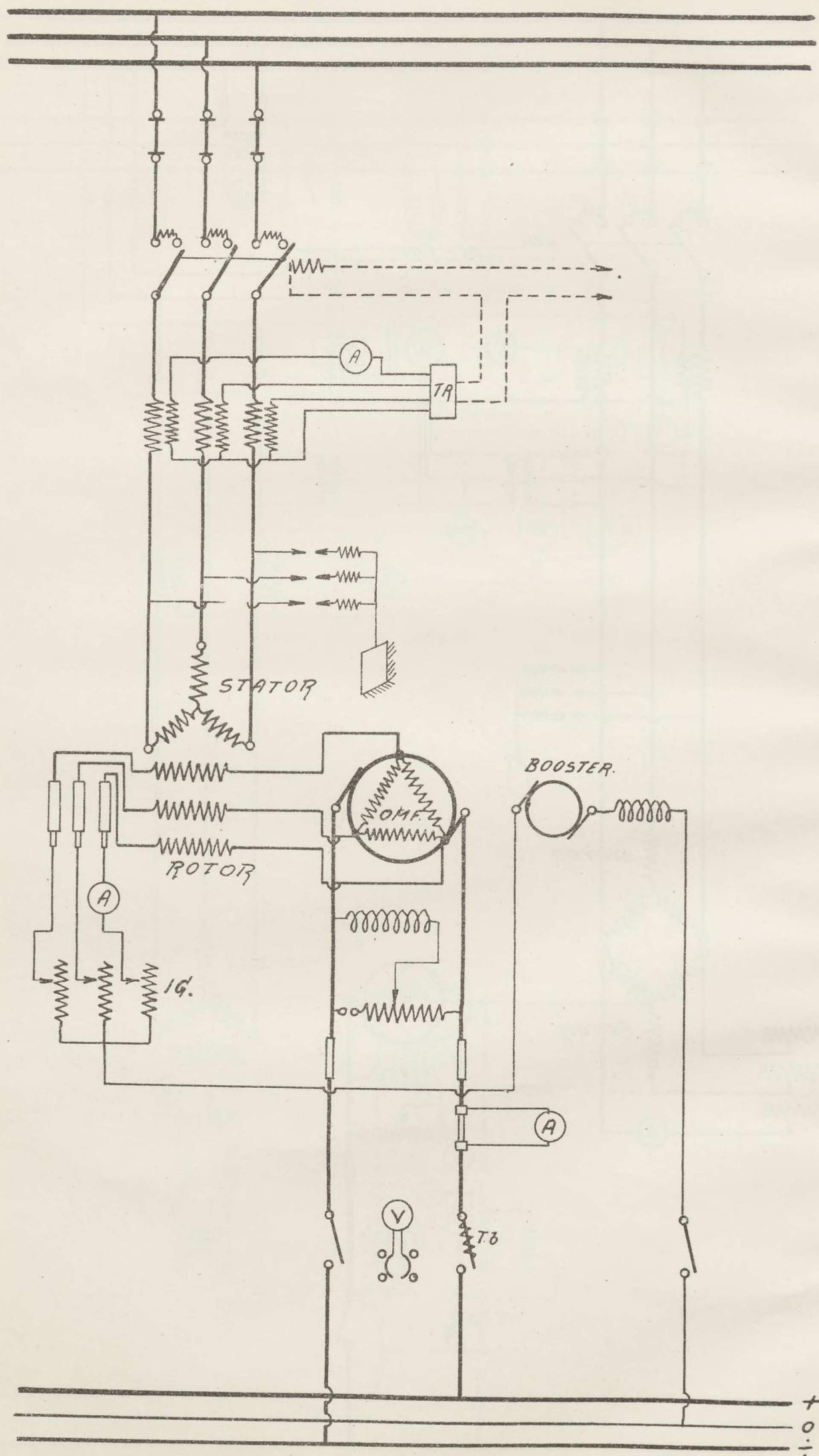


FIG. 122. KASKADEOMFORMER.

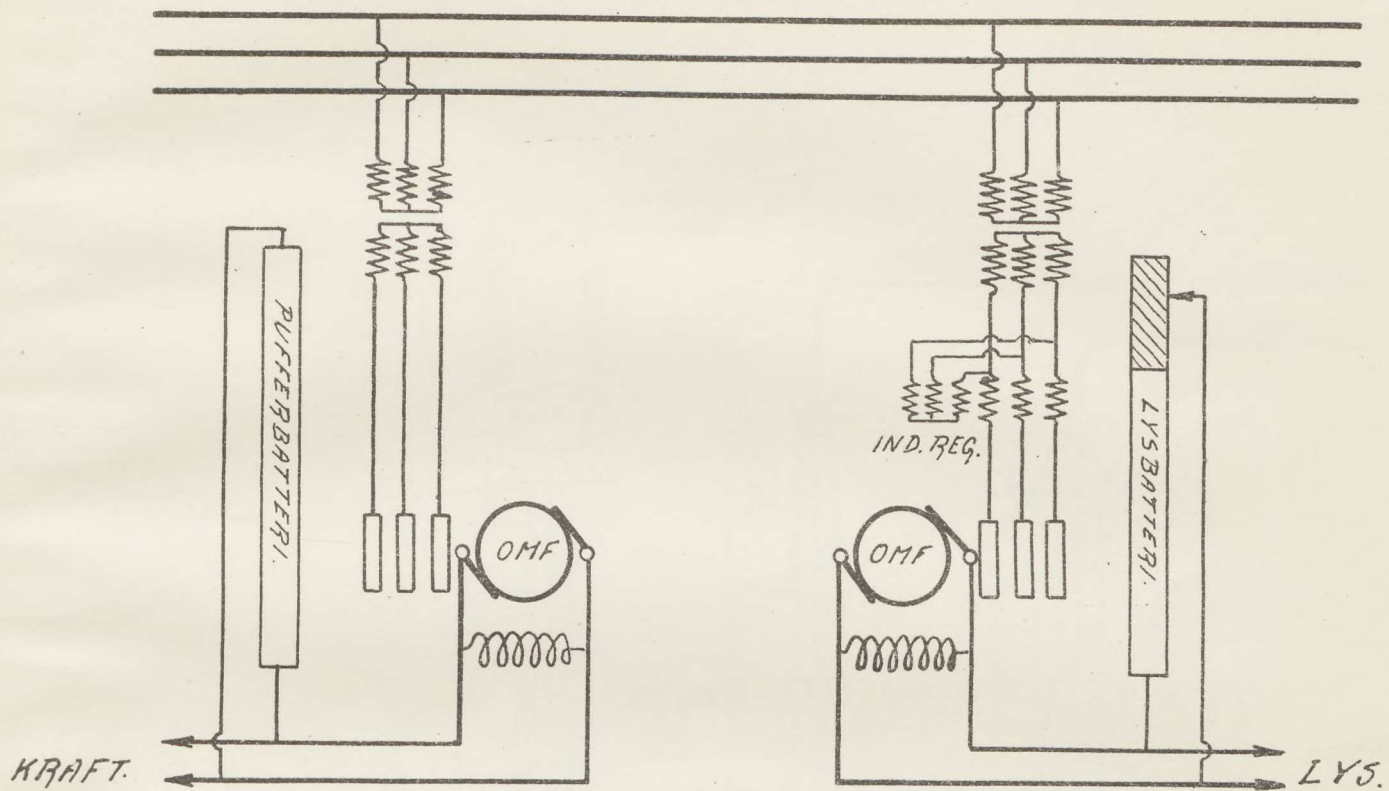


FIG. 123. MINDRE HENSIQTSMÆSSIG ANORDNING. AF OMFORMERE.

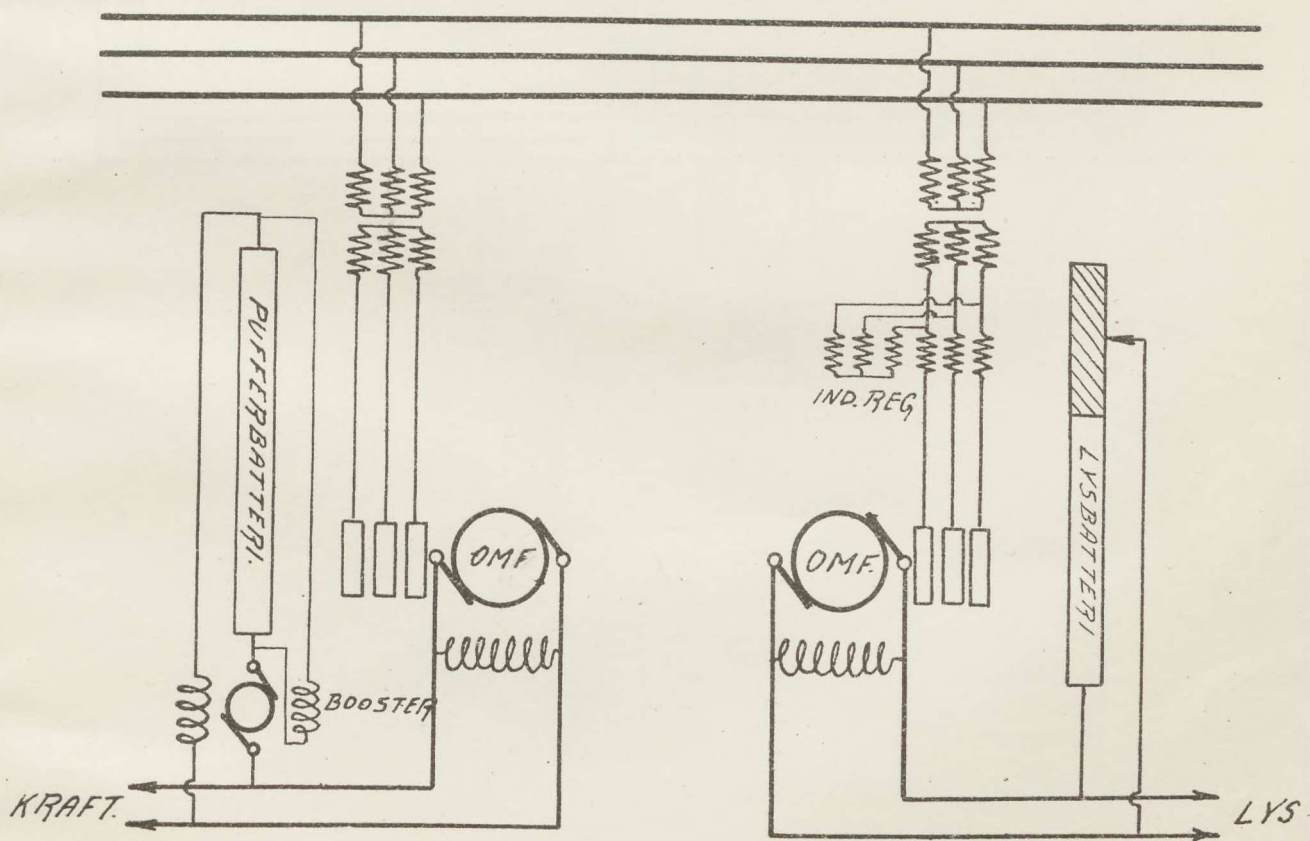


FIG. 124. ANORDNING. AF OMFORMERE FOR LYS OG KRAFT.

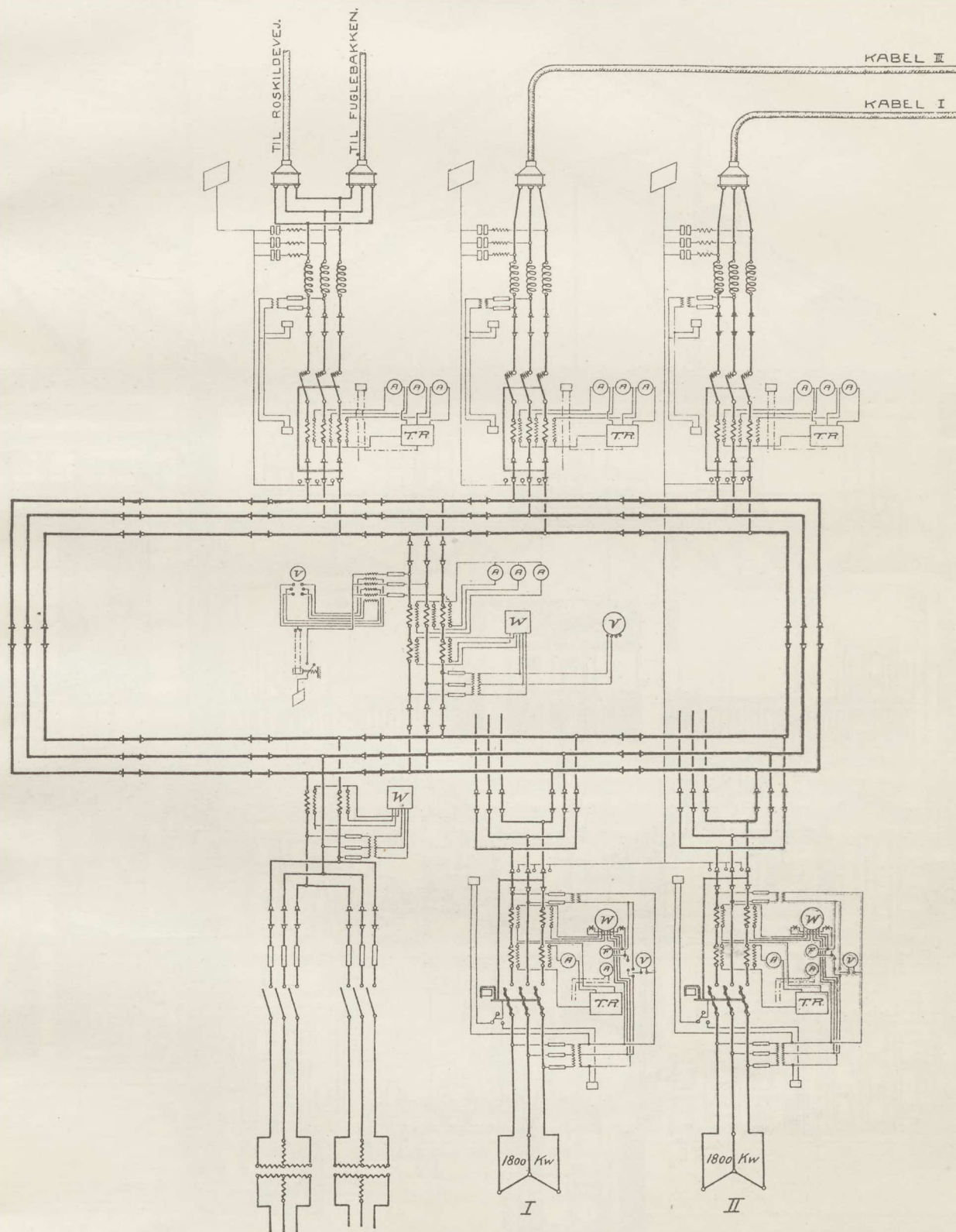


FIG. 125. FREDERIKSBERG E.V. FINSENVÆRK

FREDERIKSBERG ELEKTRICITETSVÆRKER.

FINSSENSVÆRK.

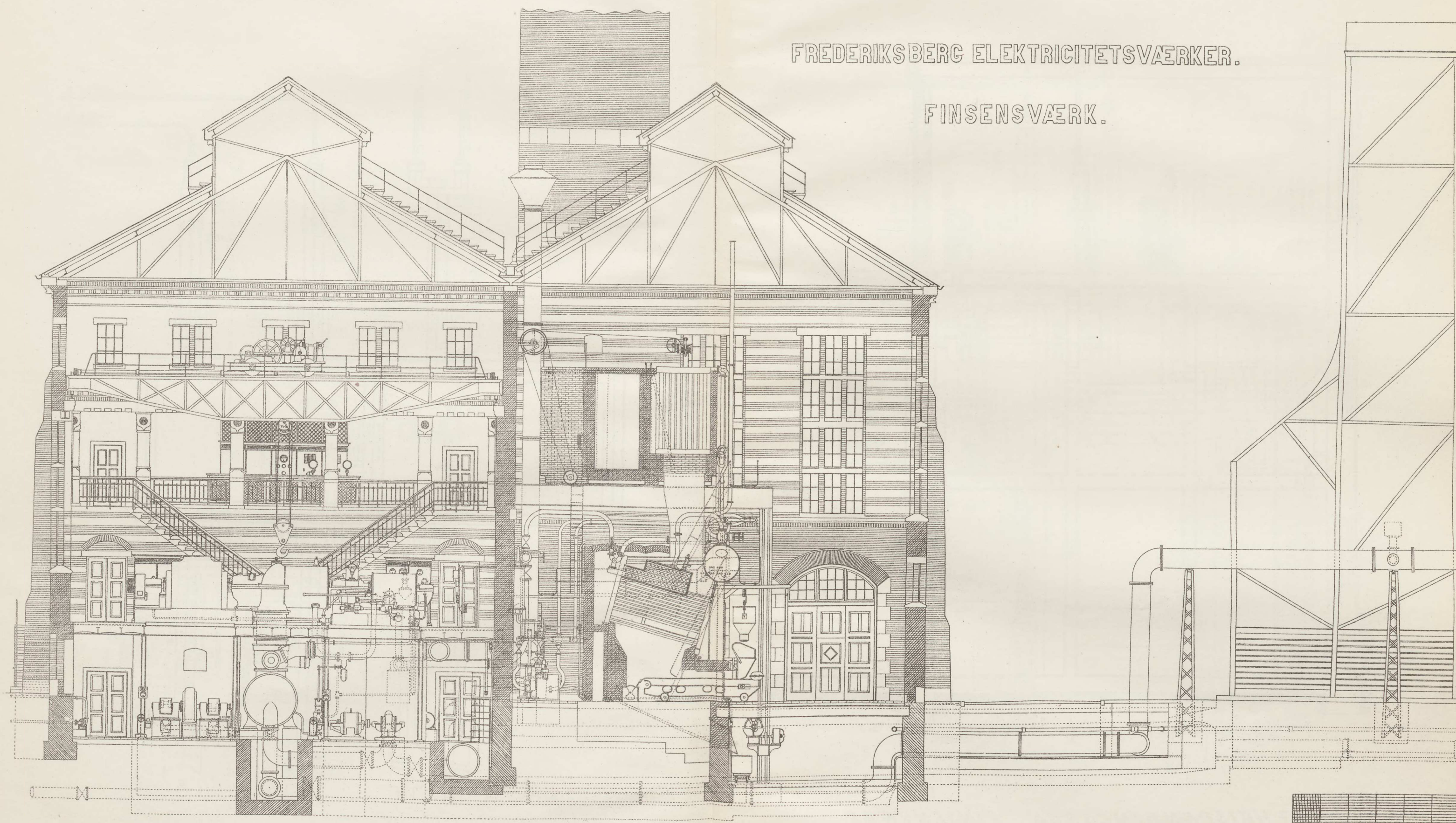


FIG. 126.

PL. LV

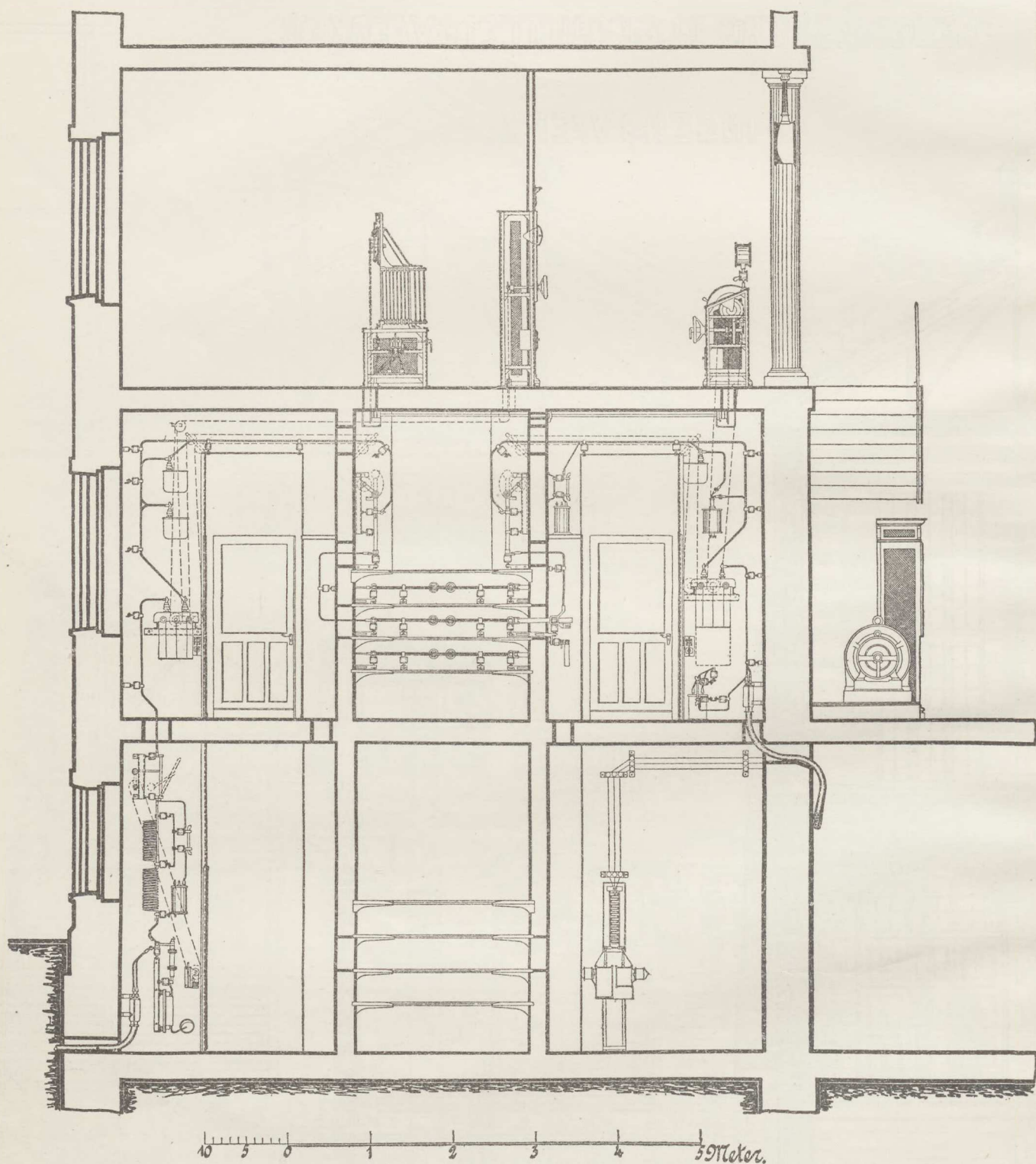


FIG. 127. HØJSPÆNDINGSRUM FINSENVÆRK.

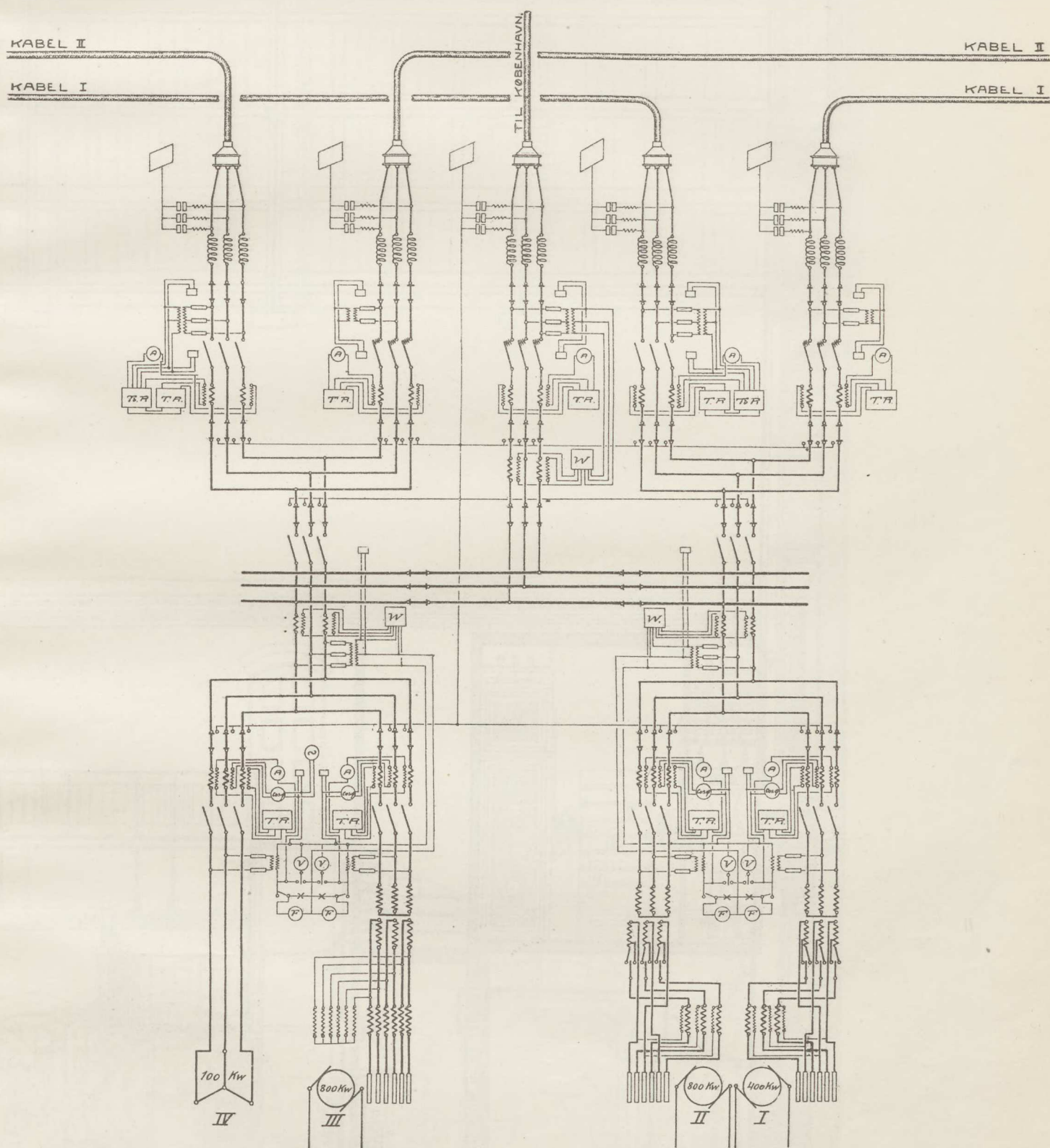


FIG. 128 FREDERIKSBERG E.V. HORTENSIÆVÆRK.

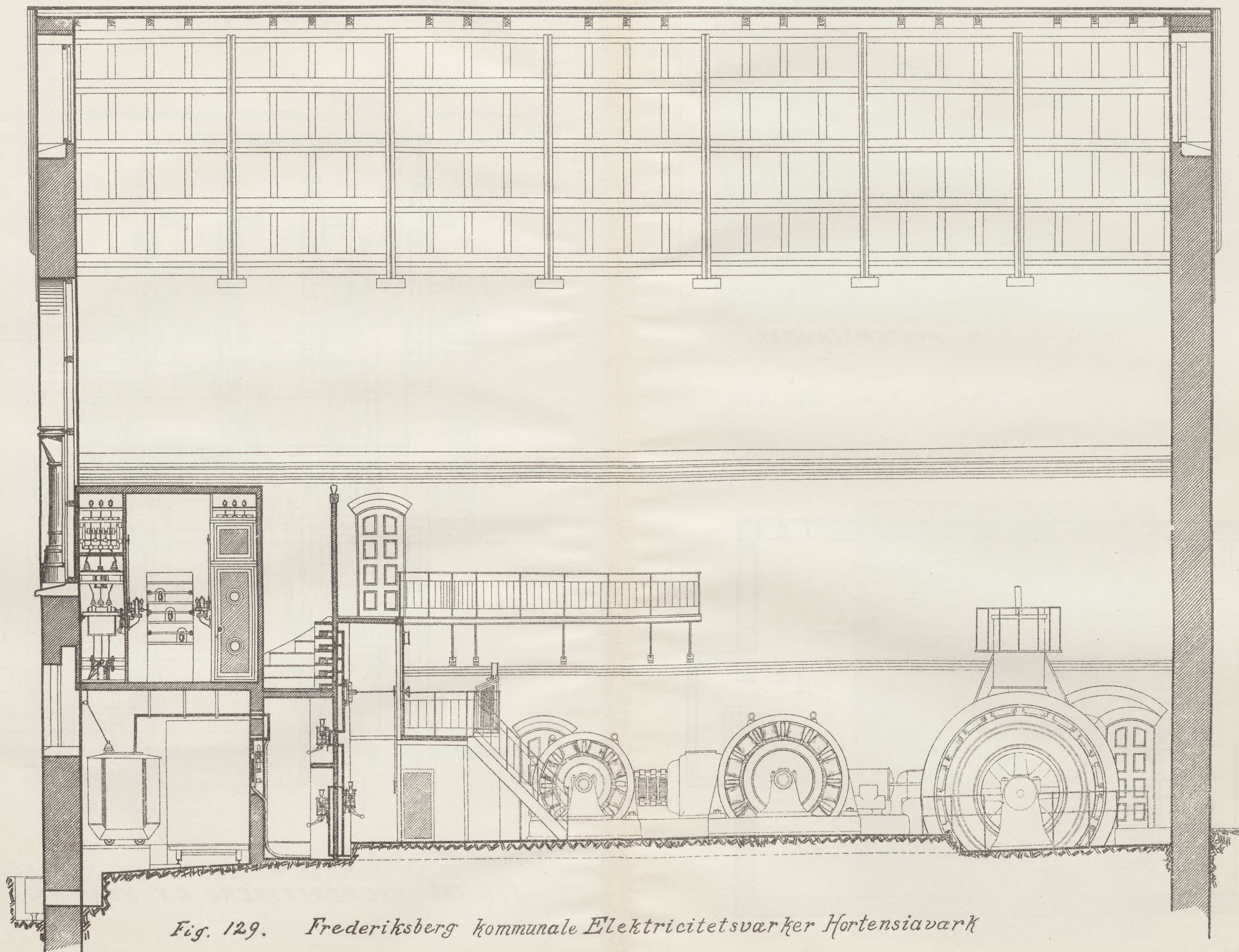


Fig. 129. Frederiksberg kommunale Elektricitetsværker Hortensiaværk

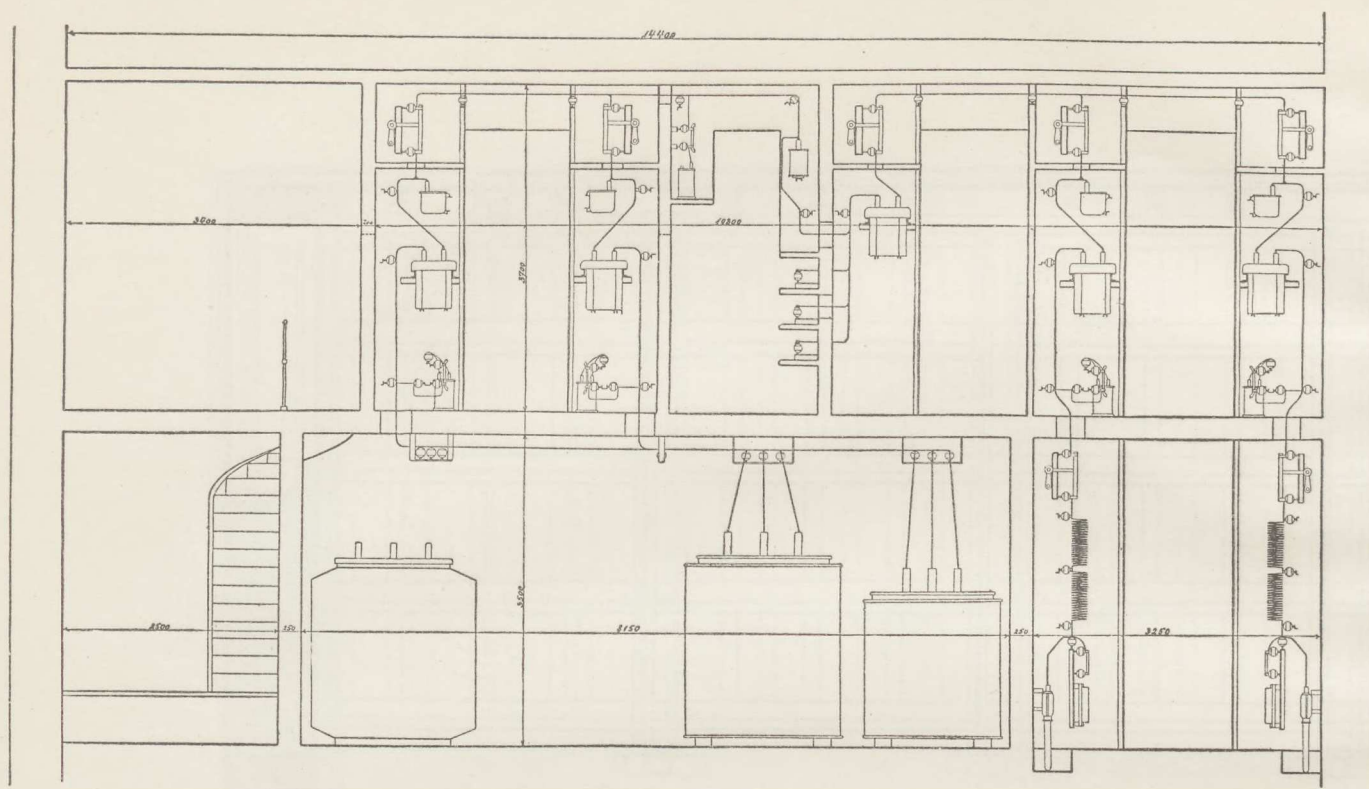


FIG. 130. HØJSPÆNDINGSRUM HORTENSIÅVÆRK.

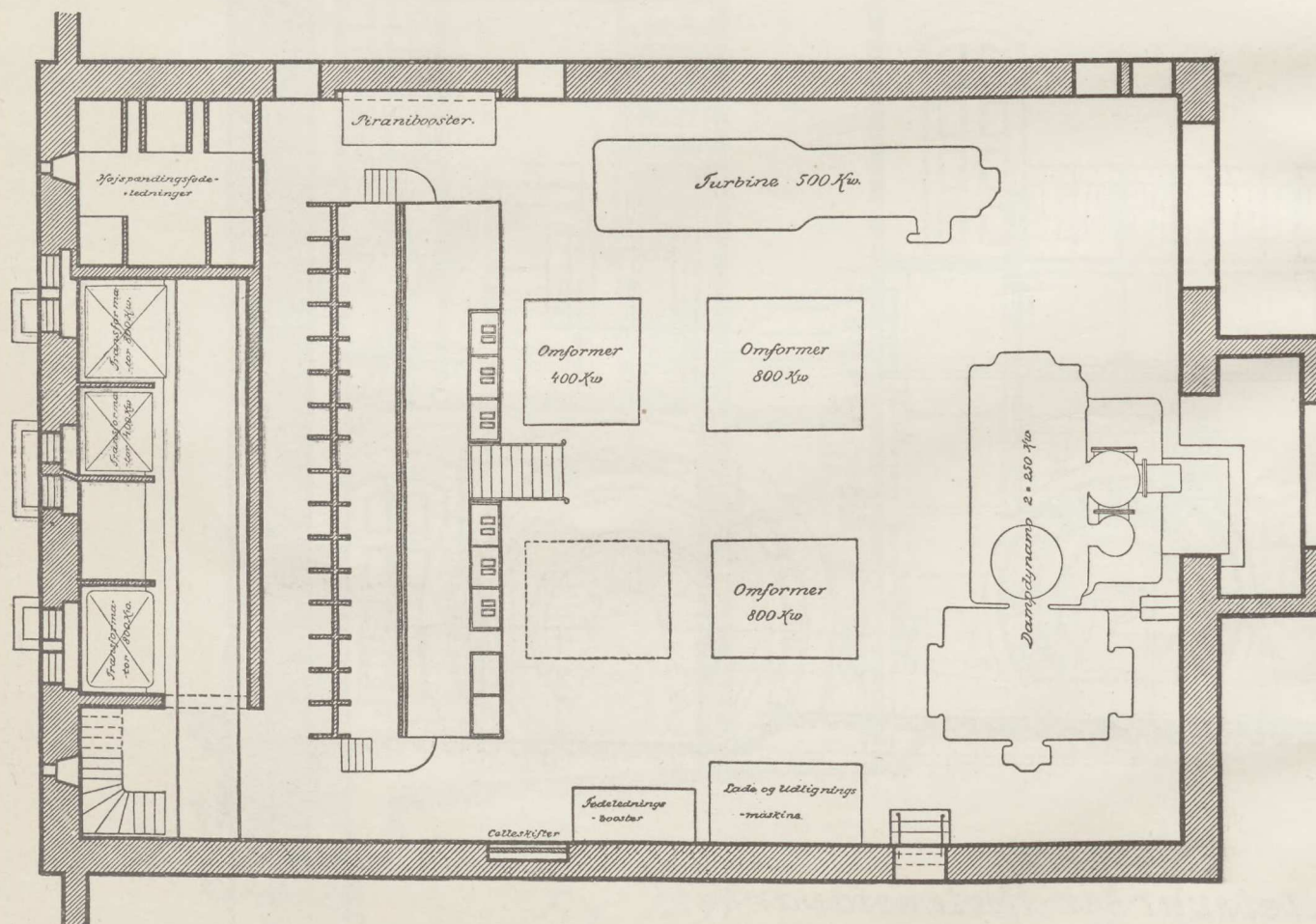


FIG. 131. PLAN AF HORTENSIÅVÆRK.

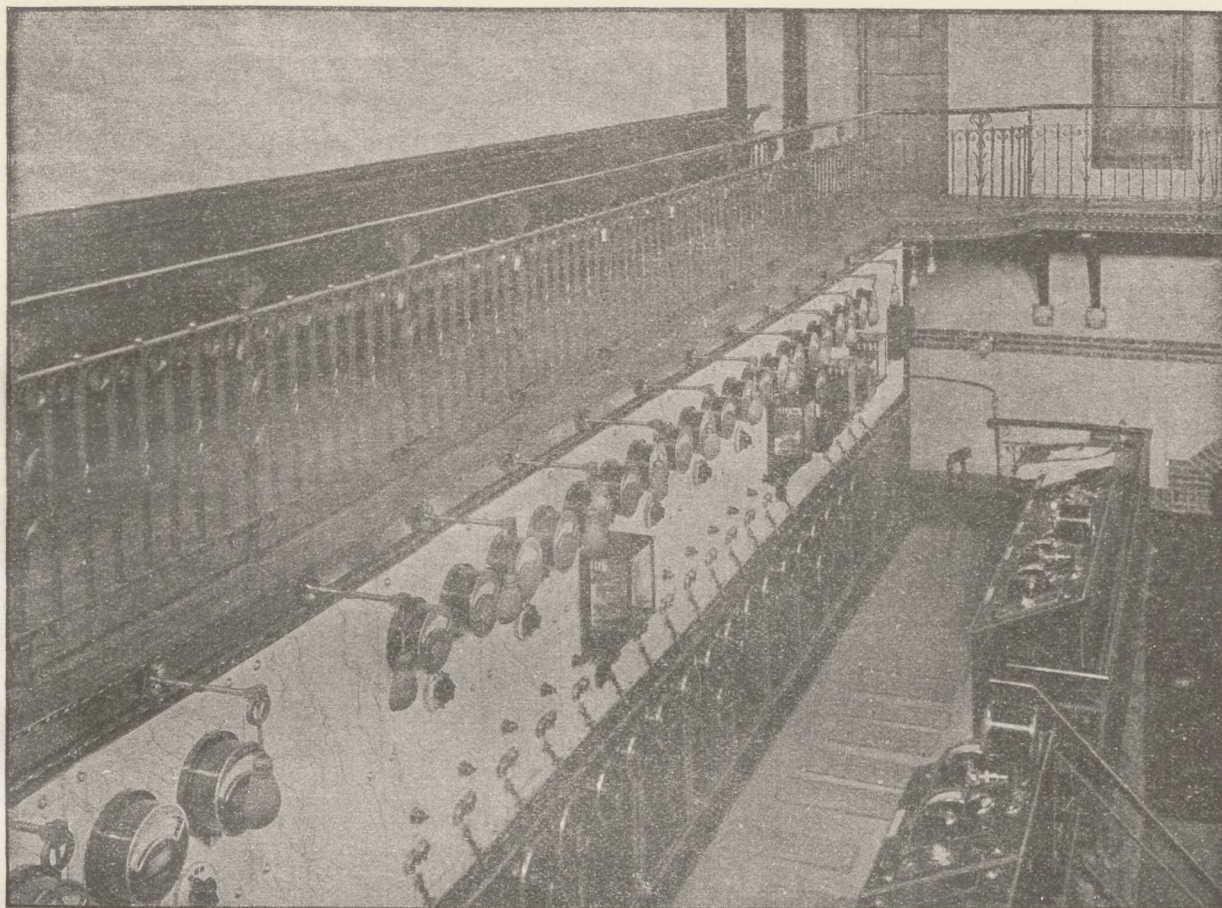


FIG. 132. TAVLE OG PULT HORTENSIÅVÆRK.

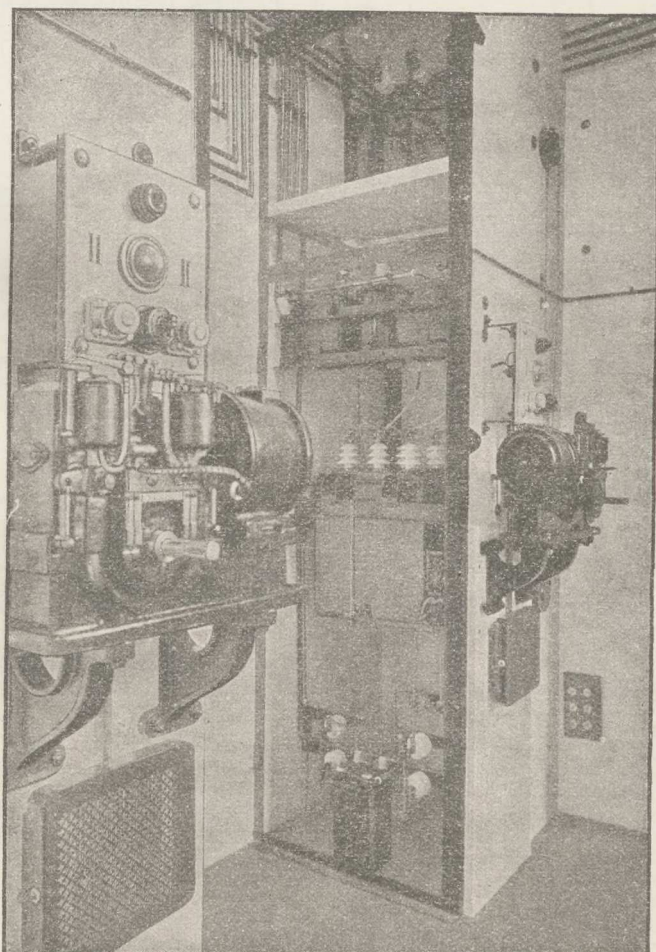


FIG. 133. HØJSPENDINGSCELLER HORTENSIÅVÆRK.

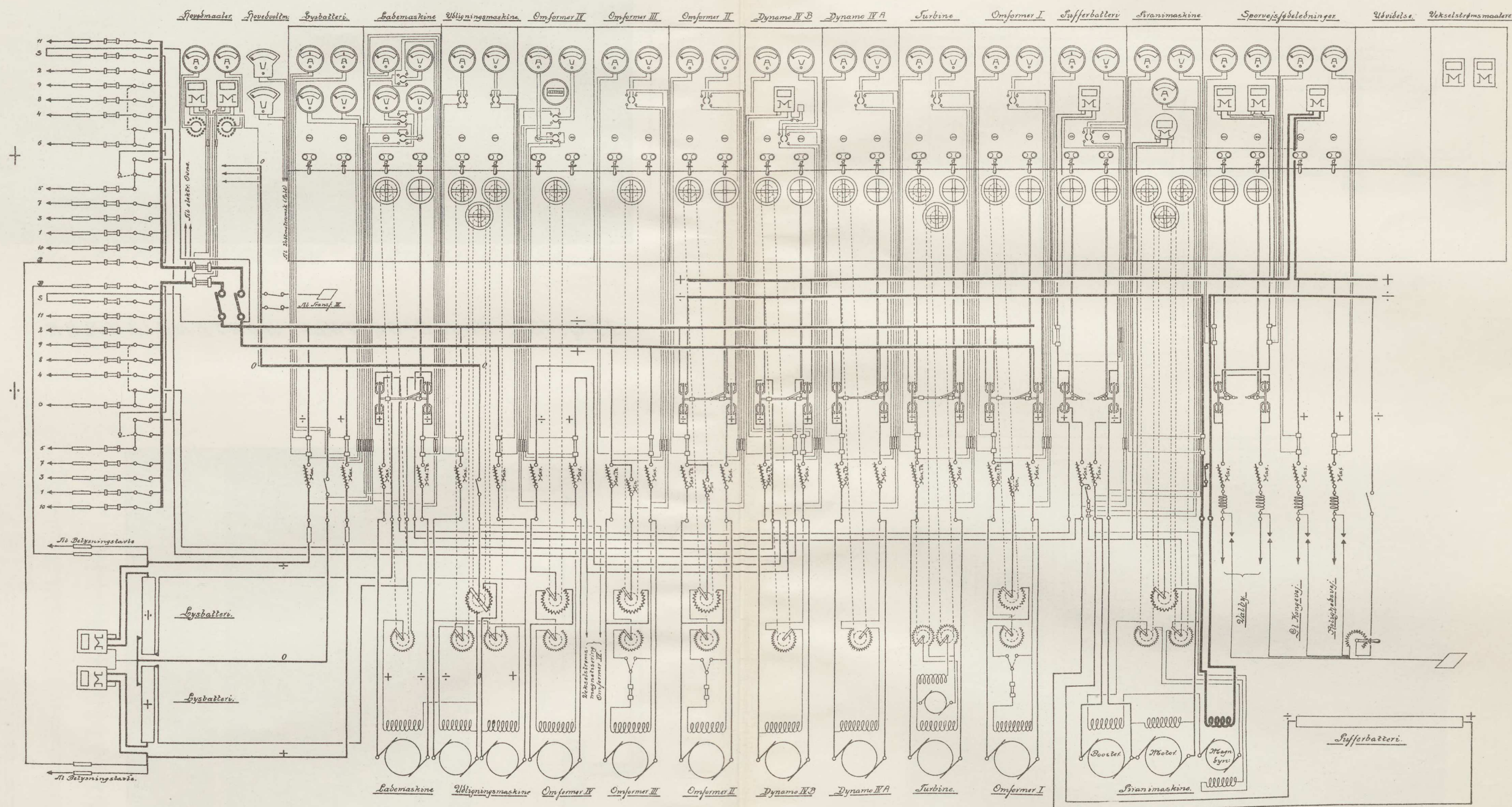


FIG. 134. JÆVNSTRØMSSKEMA HORTENSLAVÆRK.

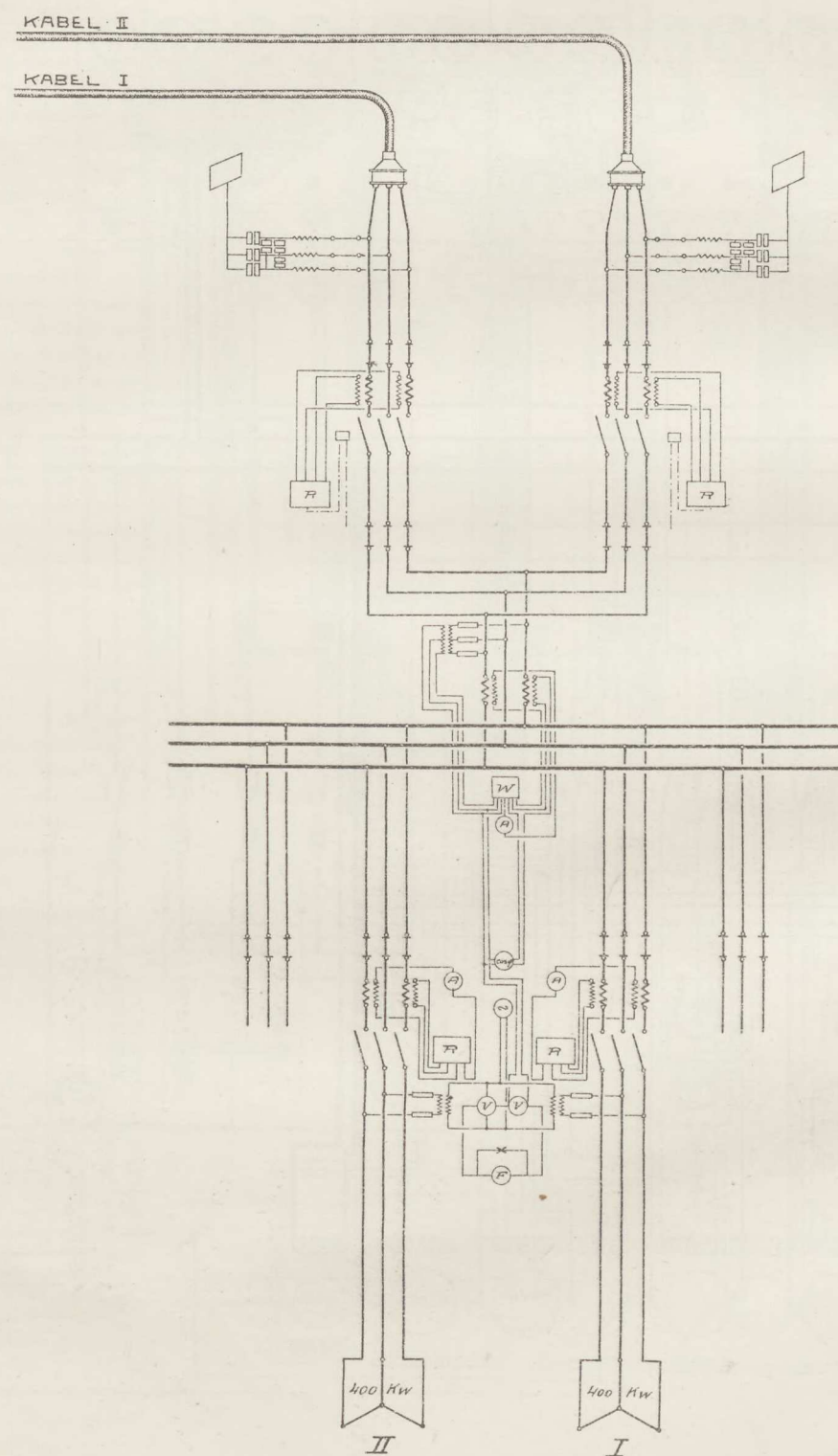


FIG. 135. FREDERIKSBERG E.V. ST. KNUDSVÆRK

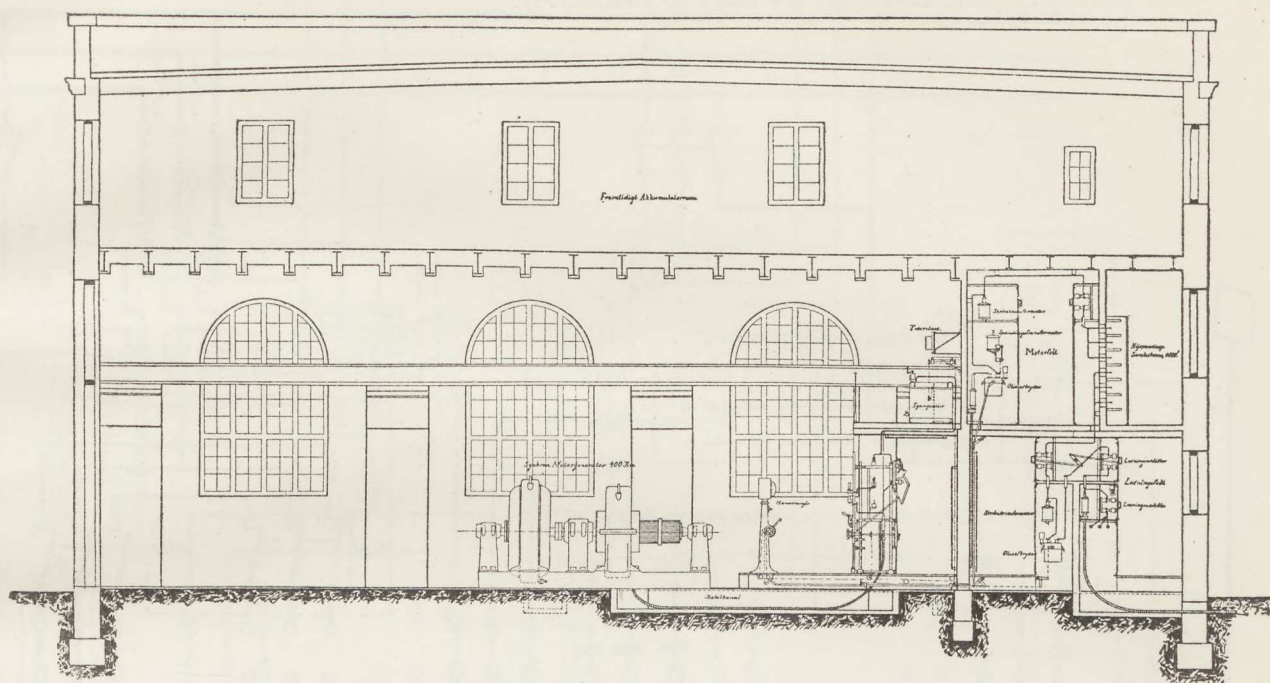


FIG. 137. SNIT AF ST. KNUDSVÆRK.

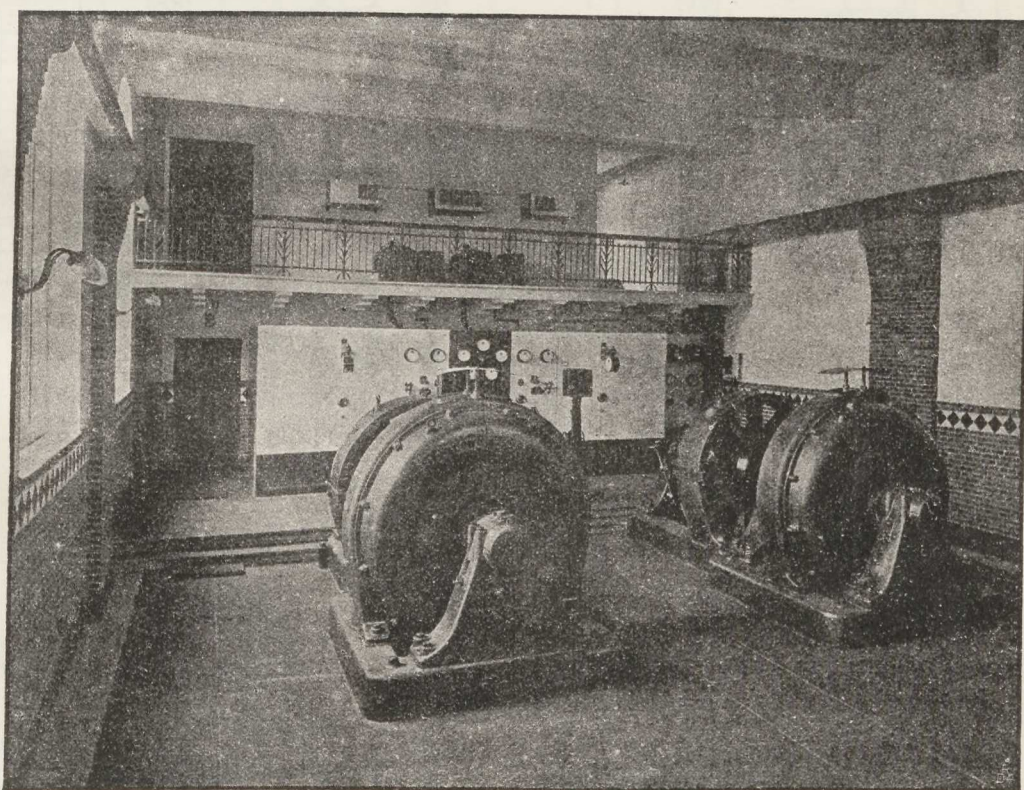


FIG. 138. INDRE AF ST. KNUDSVÆRK.

ØSTRE ELEKTRISITETSVÆRK.

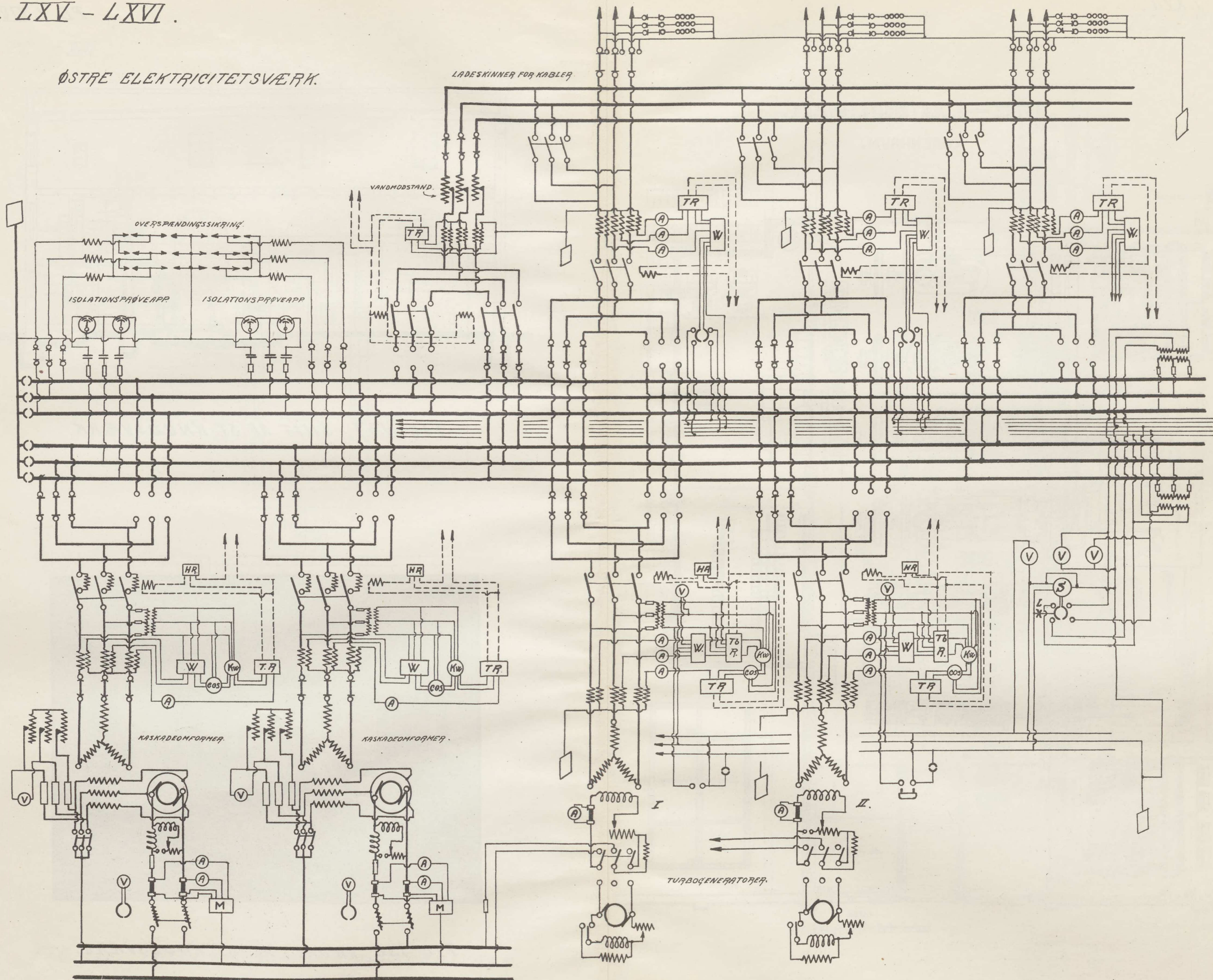


FIG. 139.

ØSTRE — ELEKTRICITETSVÆRK.

KØBENHAVN.

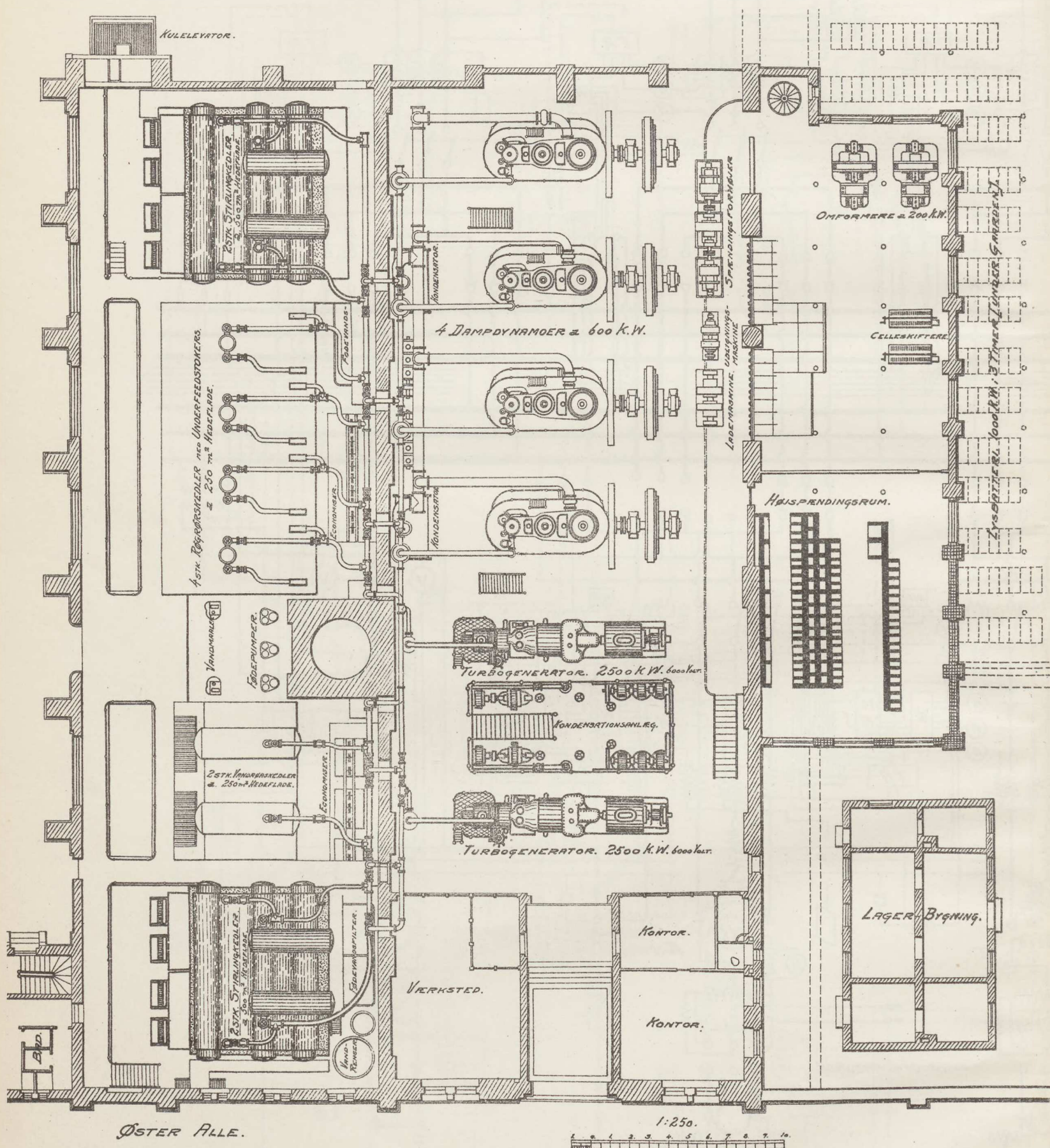


FIG. 140

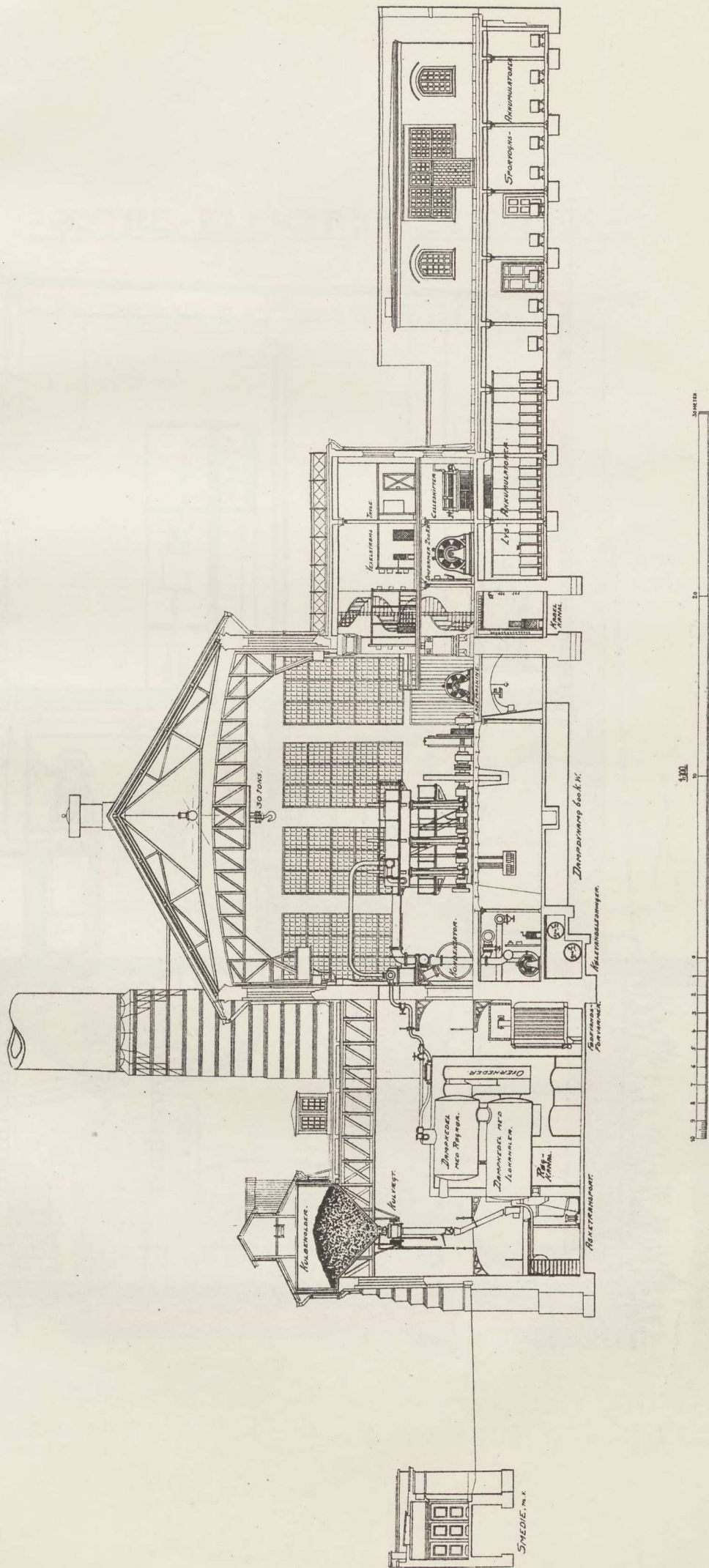


Fig. 141

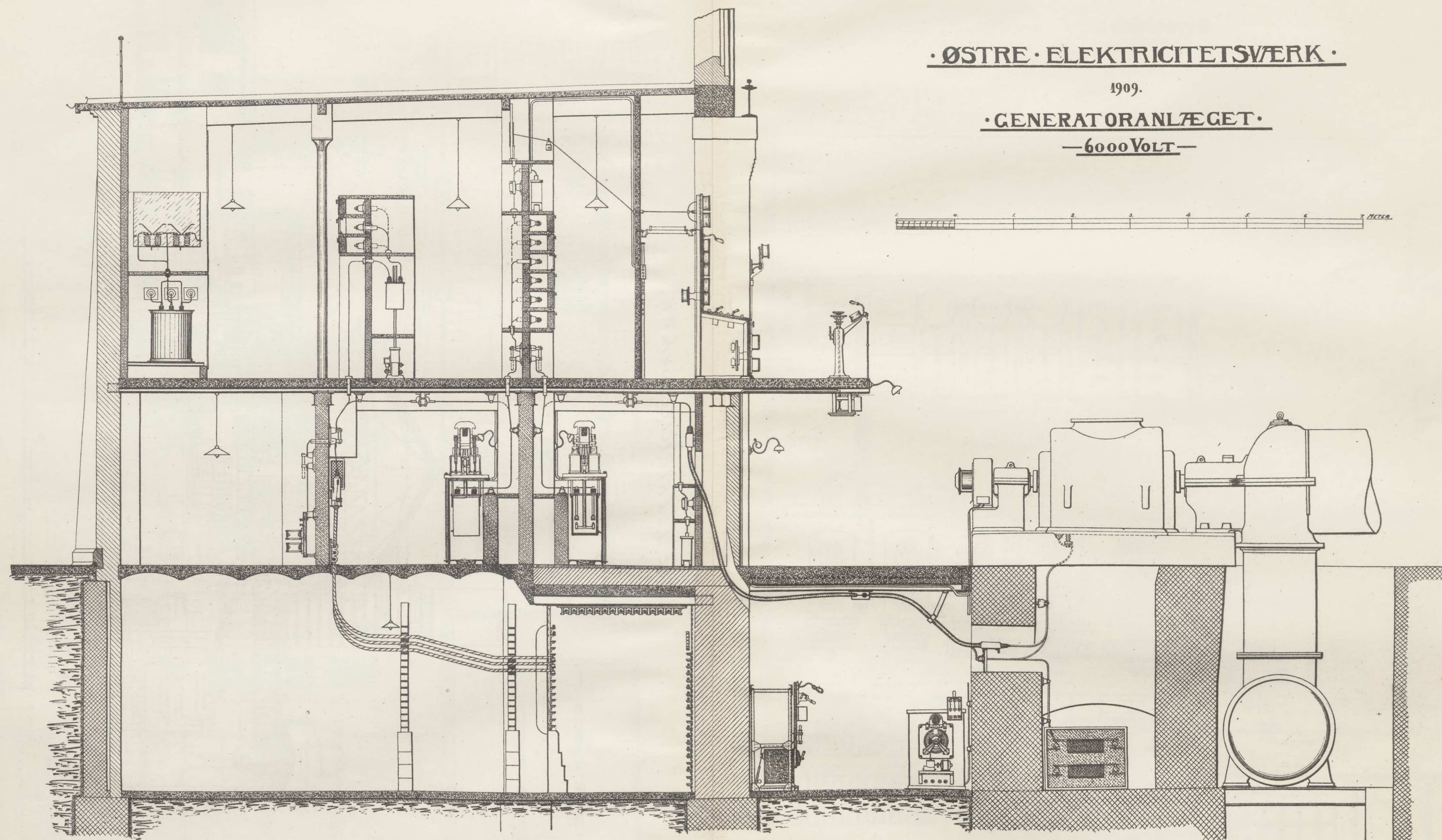


FIG. 142

VESTRE ELEKTRICITETSVÆRK.
KØBENHAVN.

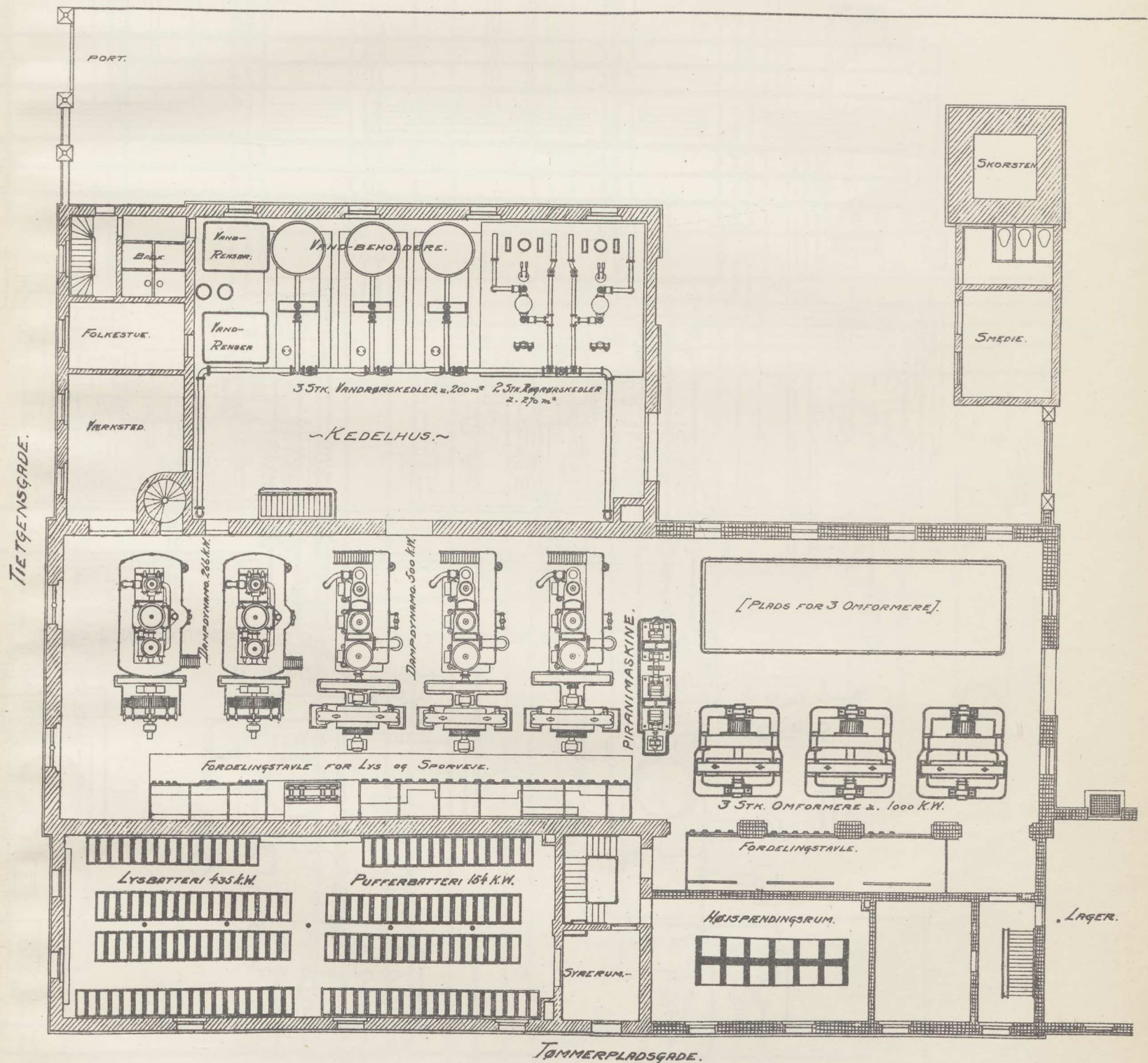


FIG. 143.

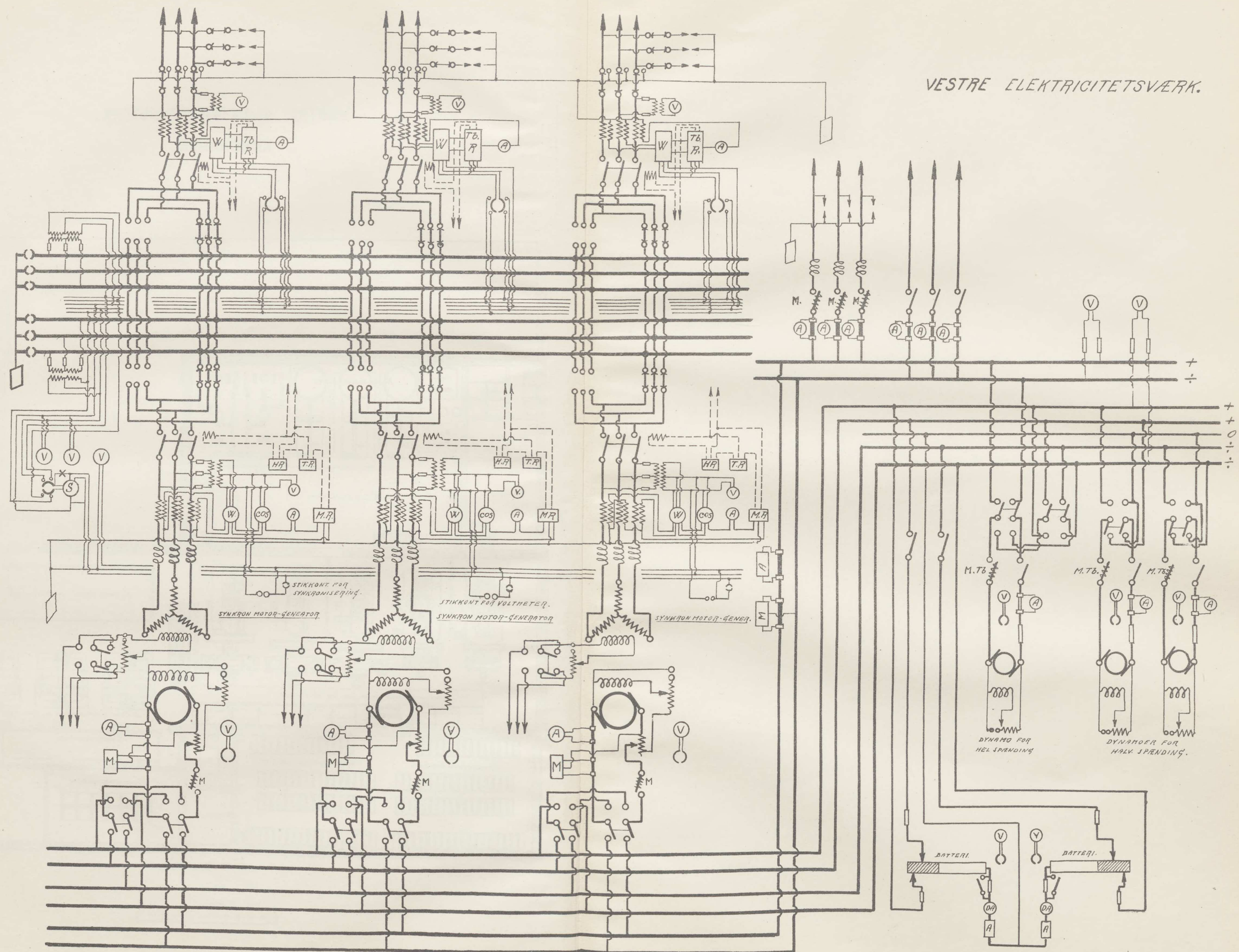


FIG. 144.

• VESTRE • ELEKTRICITETSVÆRK •

1909.

• OMFORMERANLÆGET •

6. 1. 25. 7

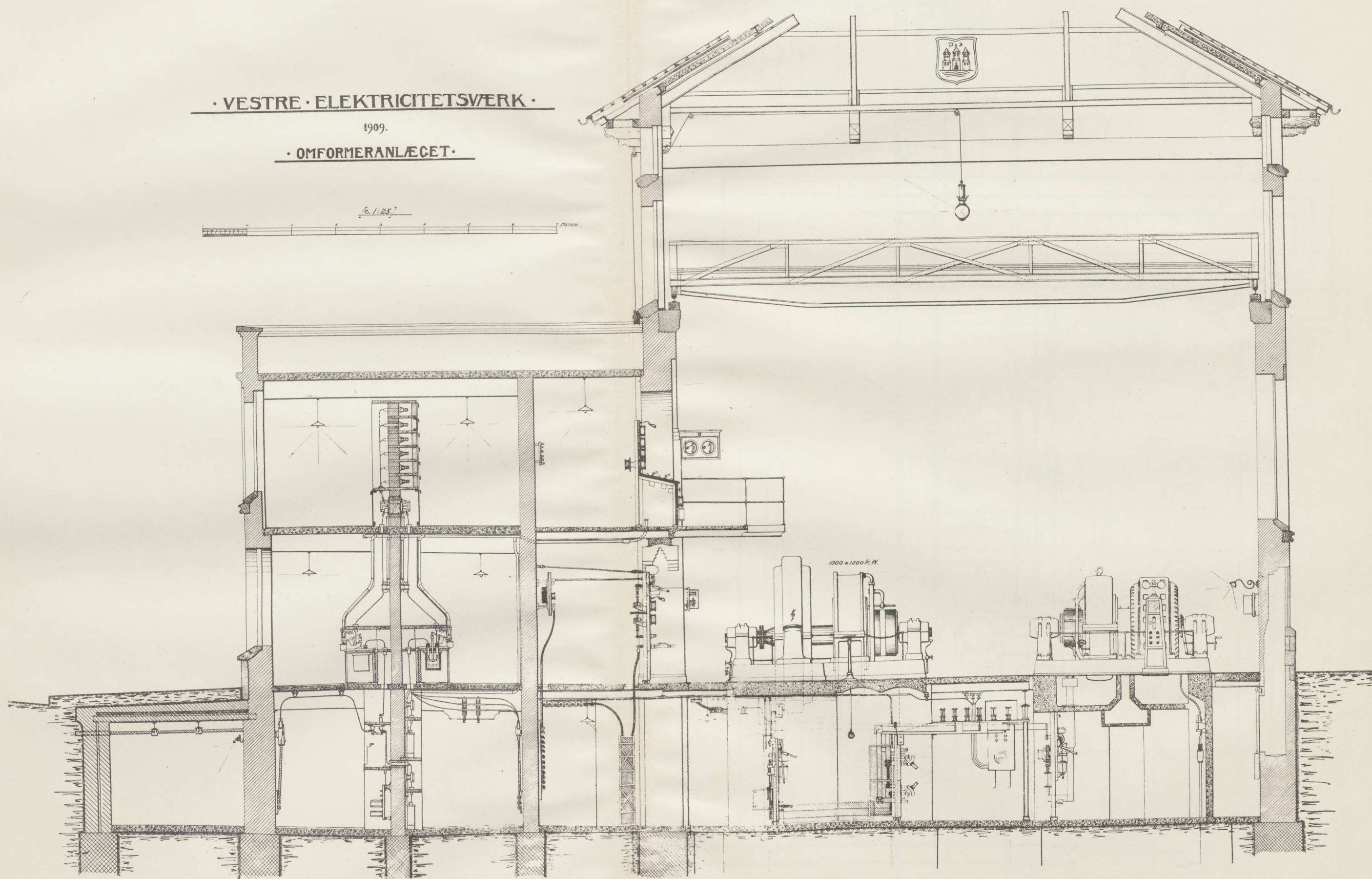
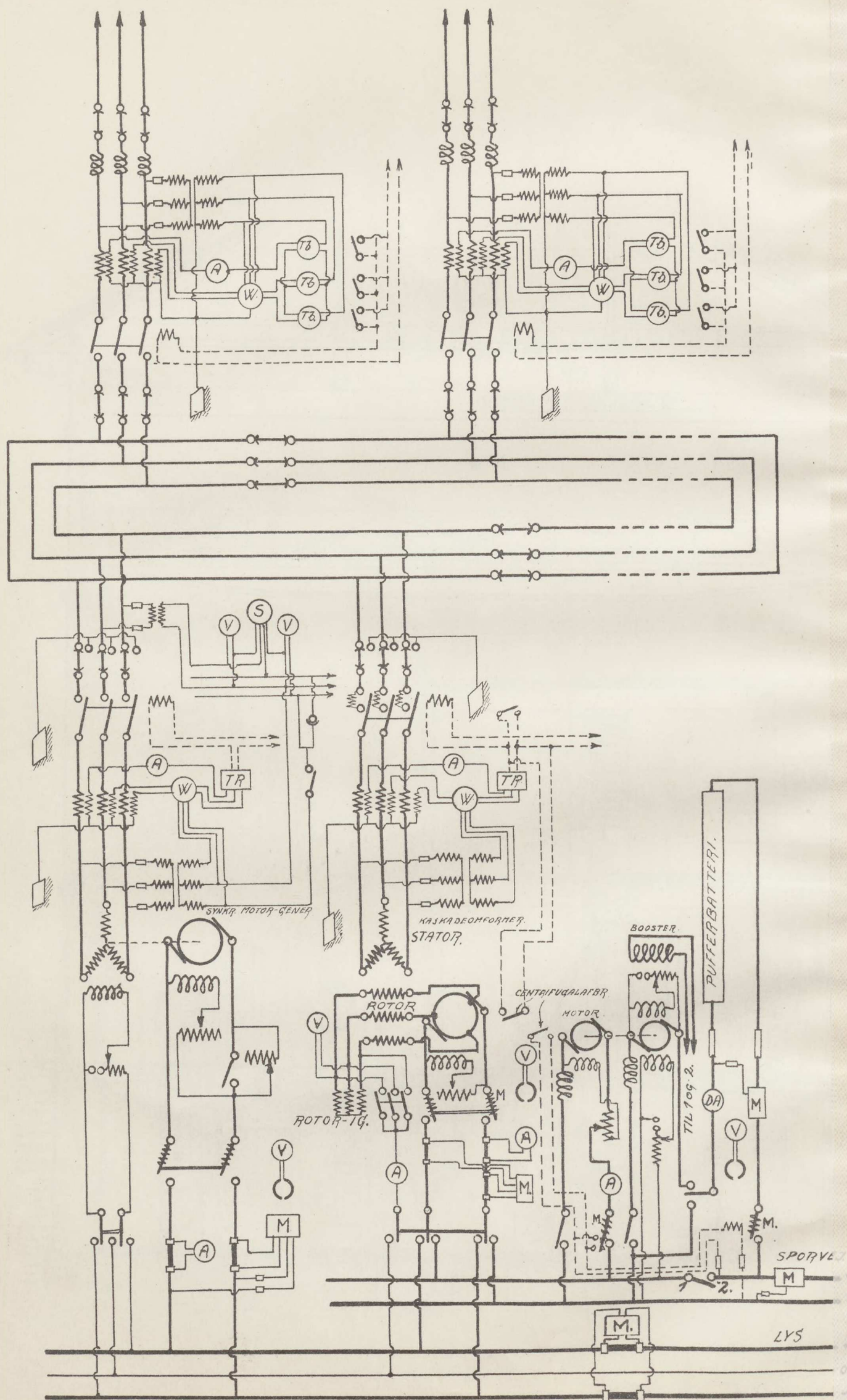
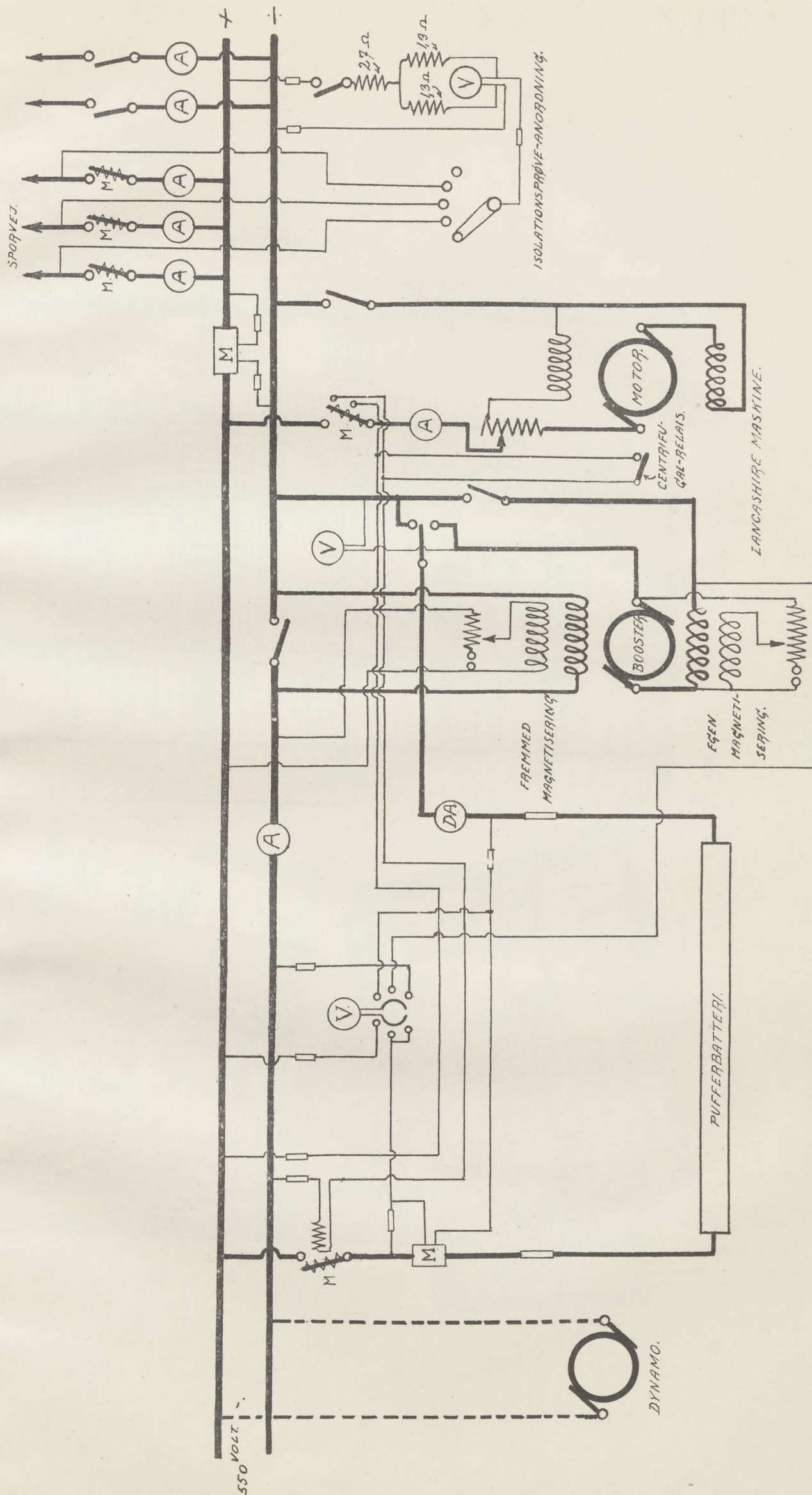


FIG. 145.



OMFORMERSTATION. BRAGESGADE.

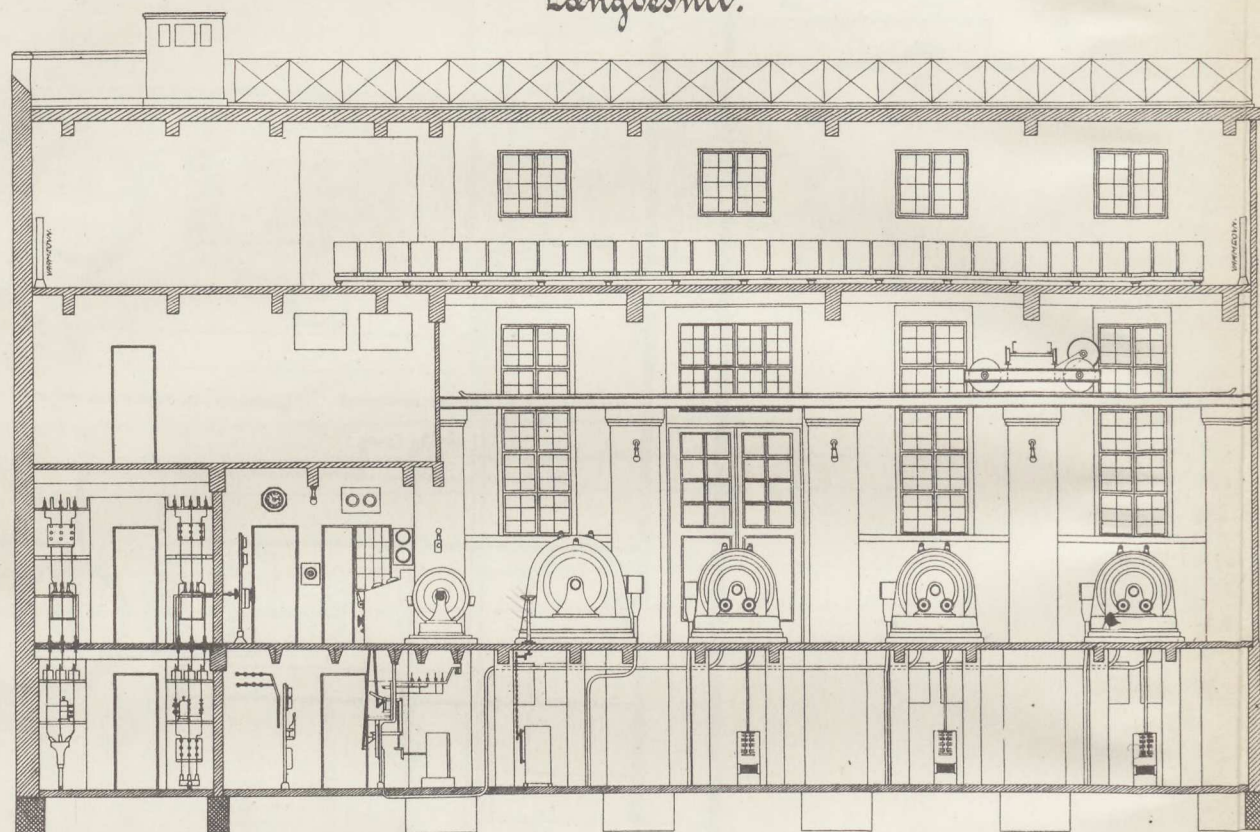
FIG. 146



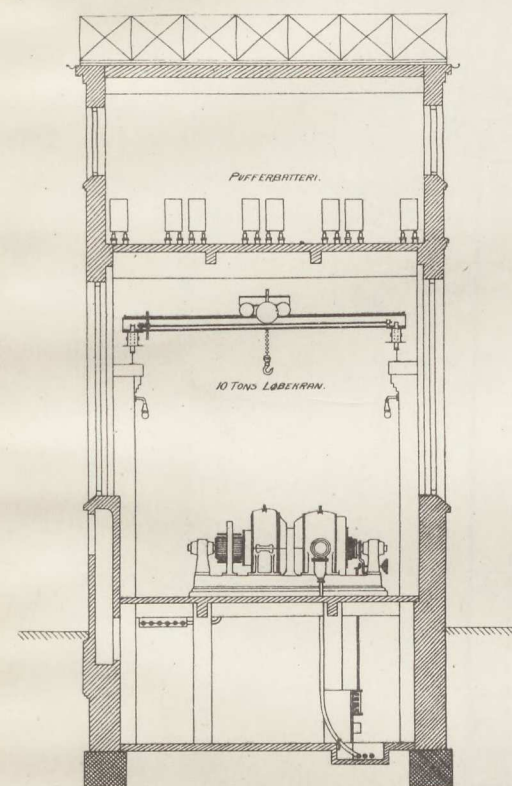
ANORDNING, AF BOOSTER OG PUFFERBATTERI. BRAGESGADE.

FIG. 147.

Langdesnit.

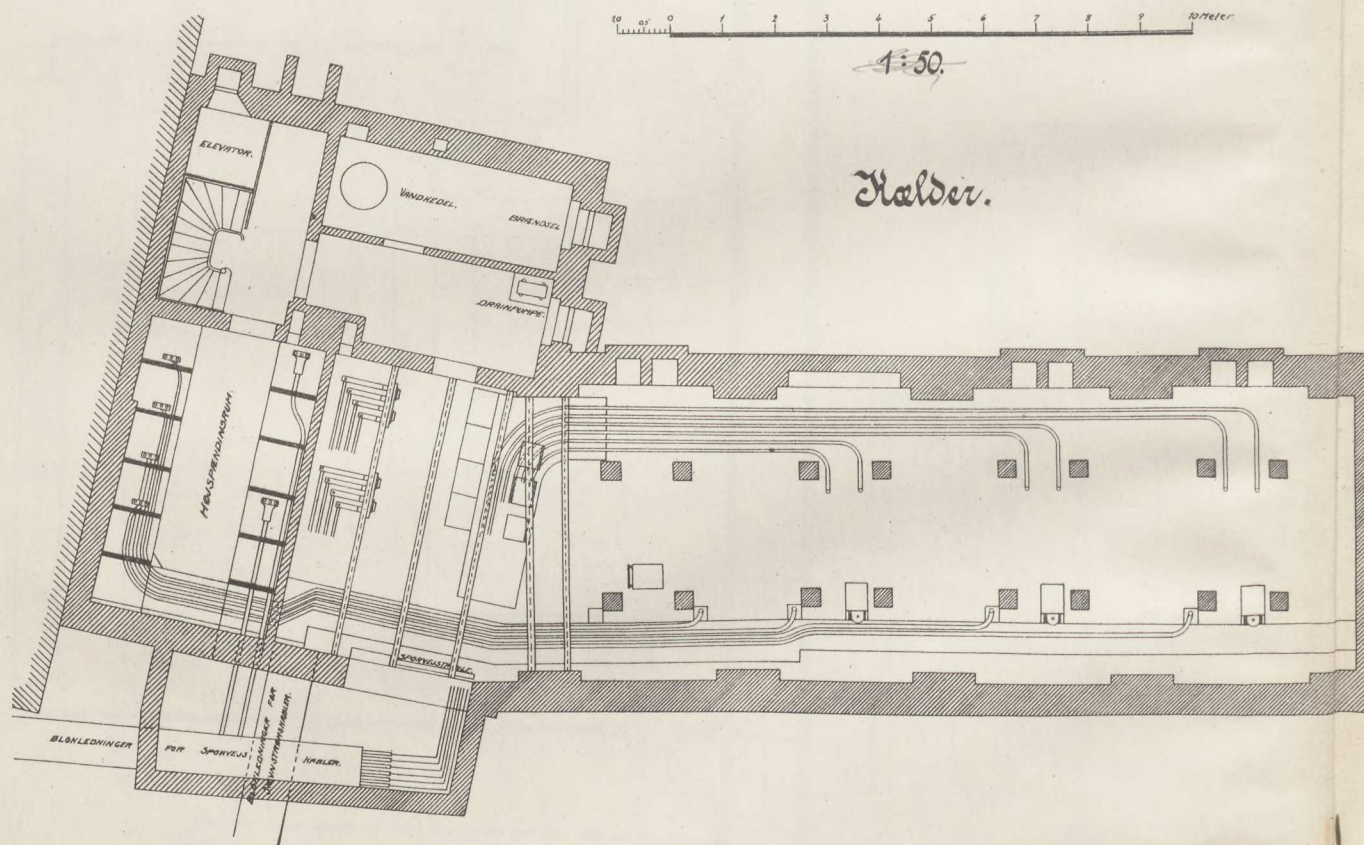


Evaresnit.

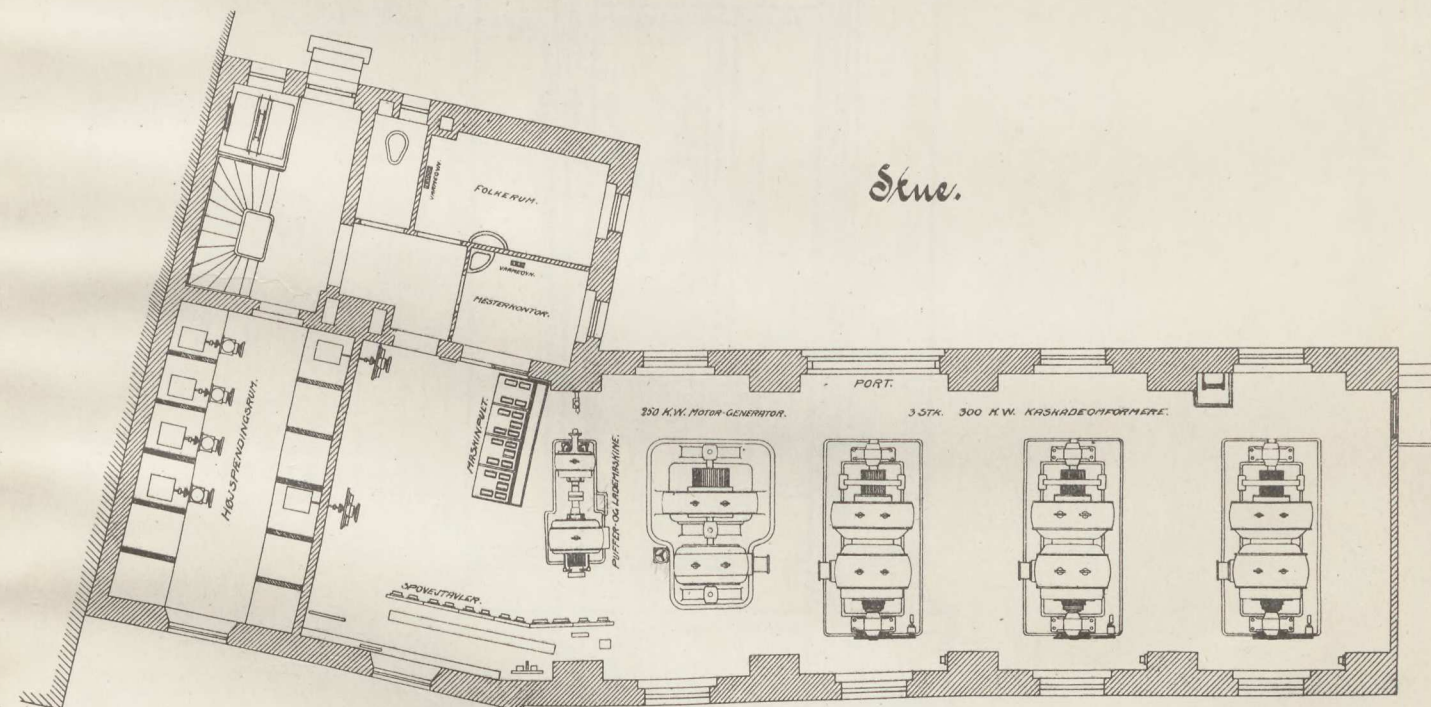


Understation
i
Bragesgade.

Kælder.



Stue.



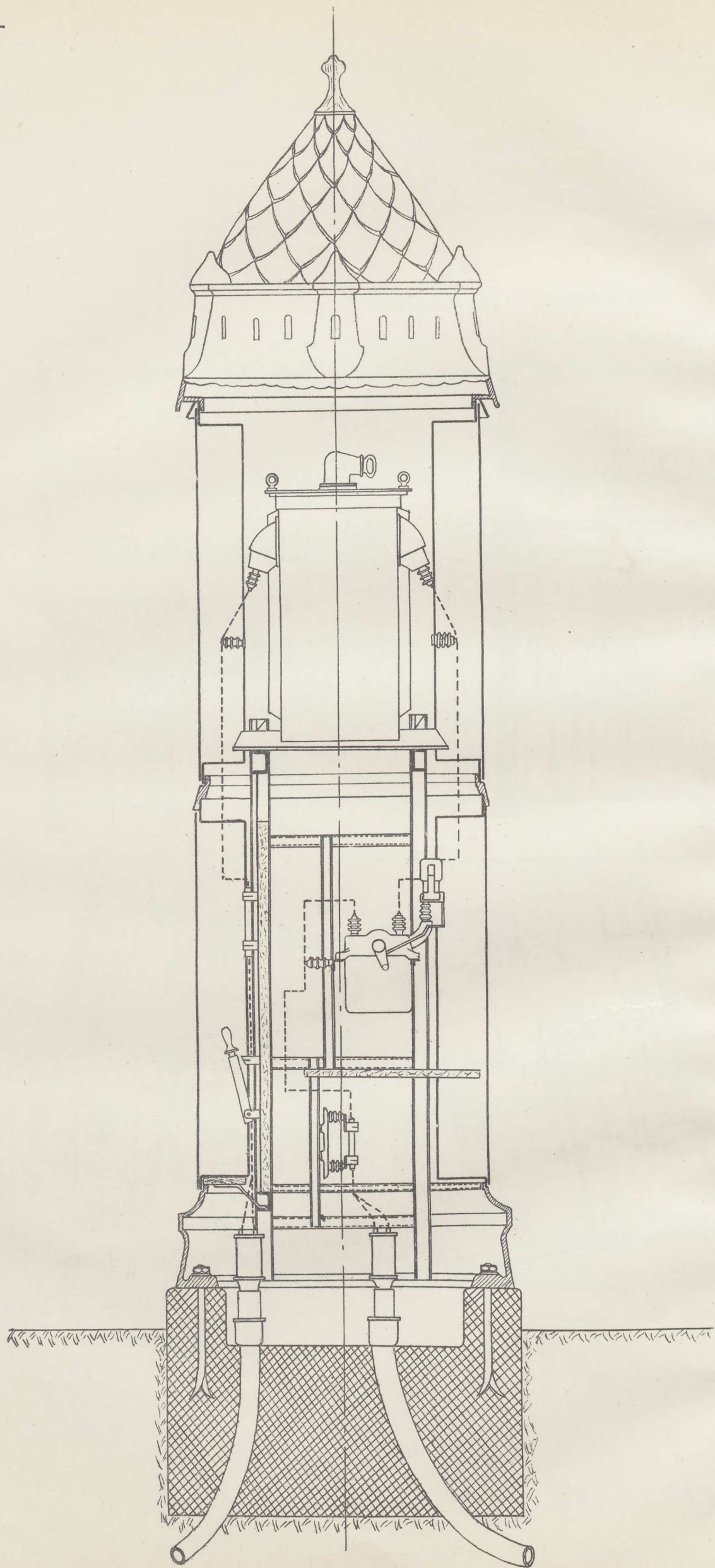
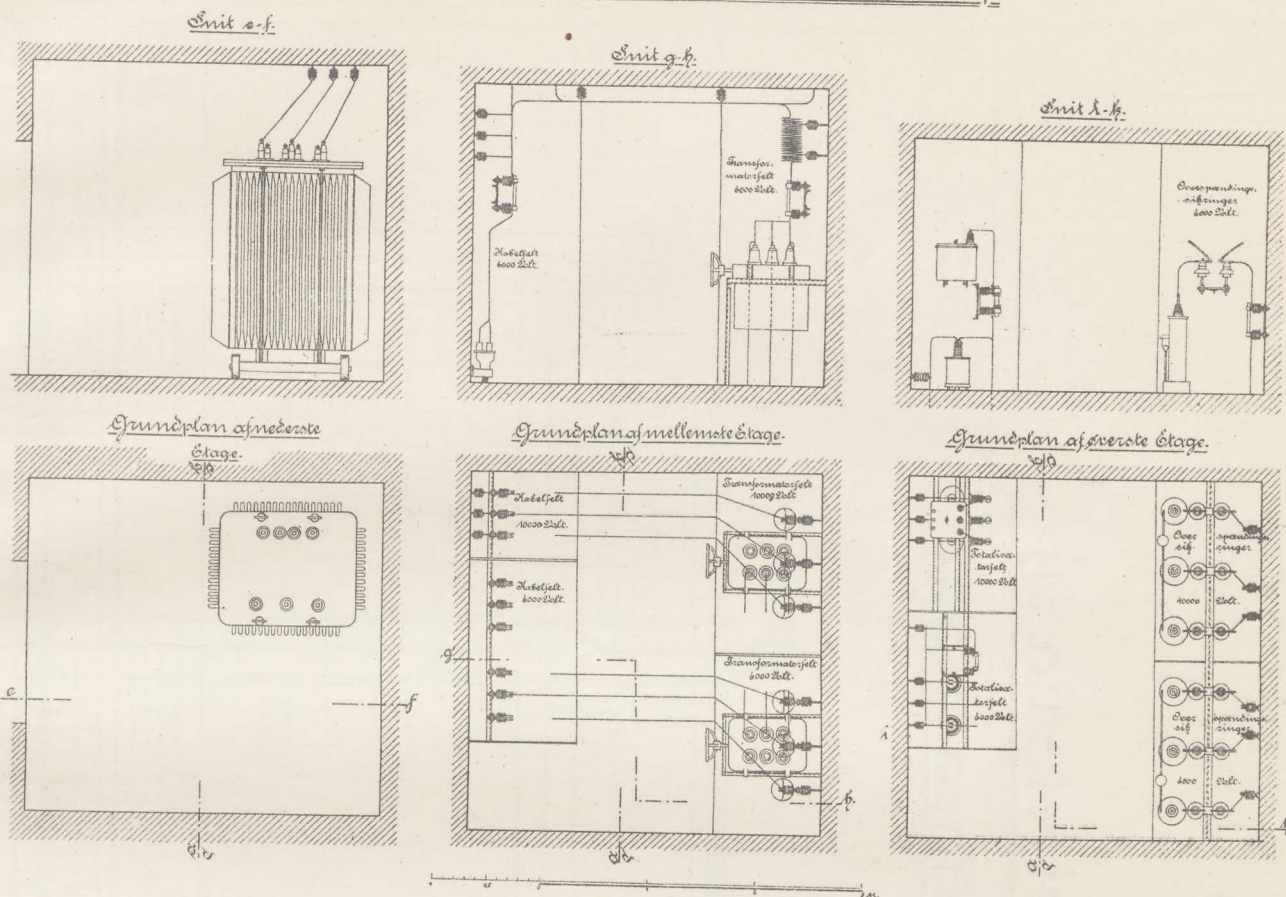
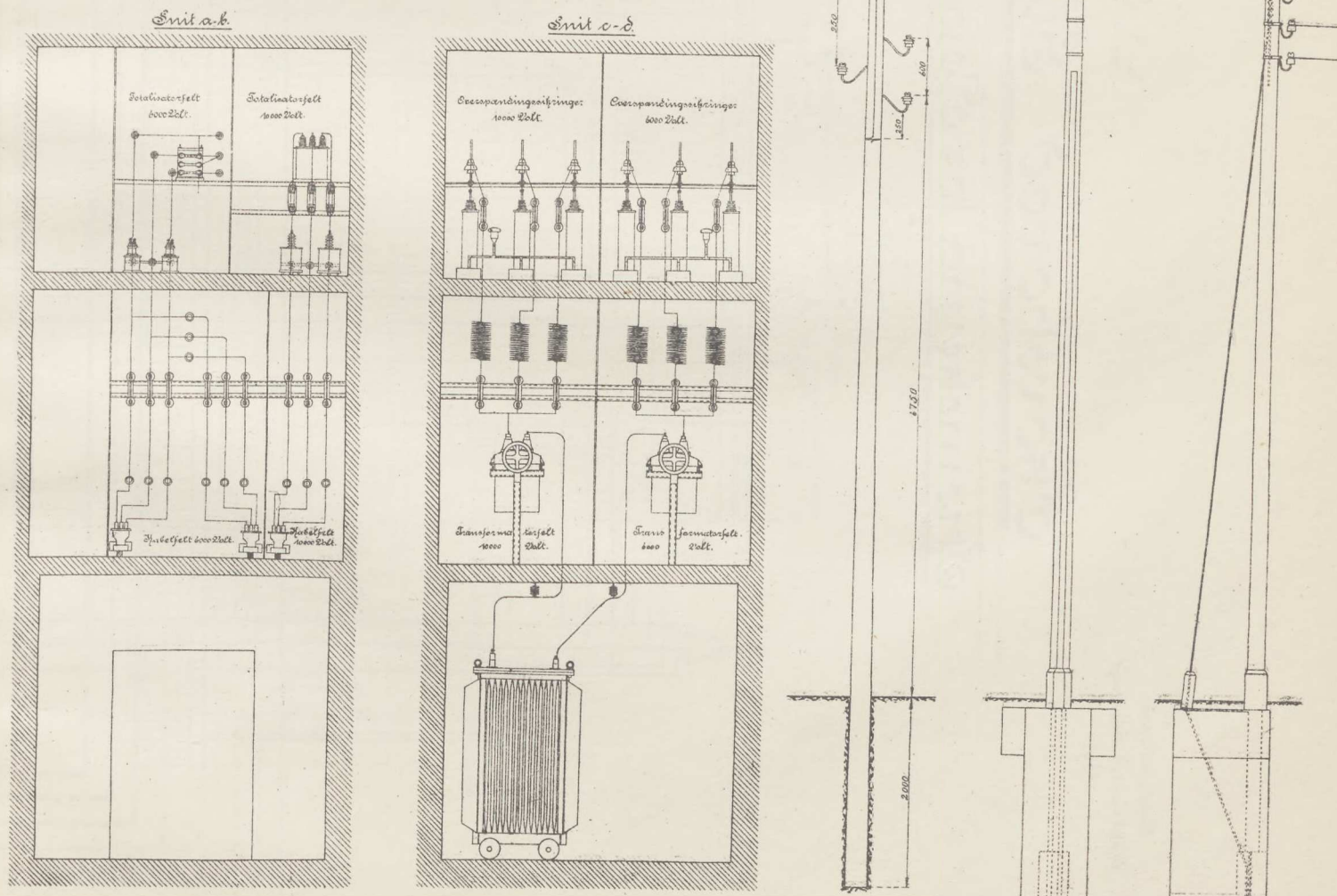


FIG. 149 TRANSFORMATORSØJLE · KBHVN.

6000/10000 Volte Transformatorstation ved Emdrup.



6000/10000 Volte Transformatorstation ved Emdrup.



Skovhoved Elektricitetsværk. Strømhøi for Sejerspændingsanlægget.

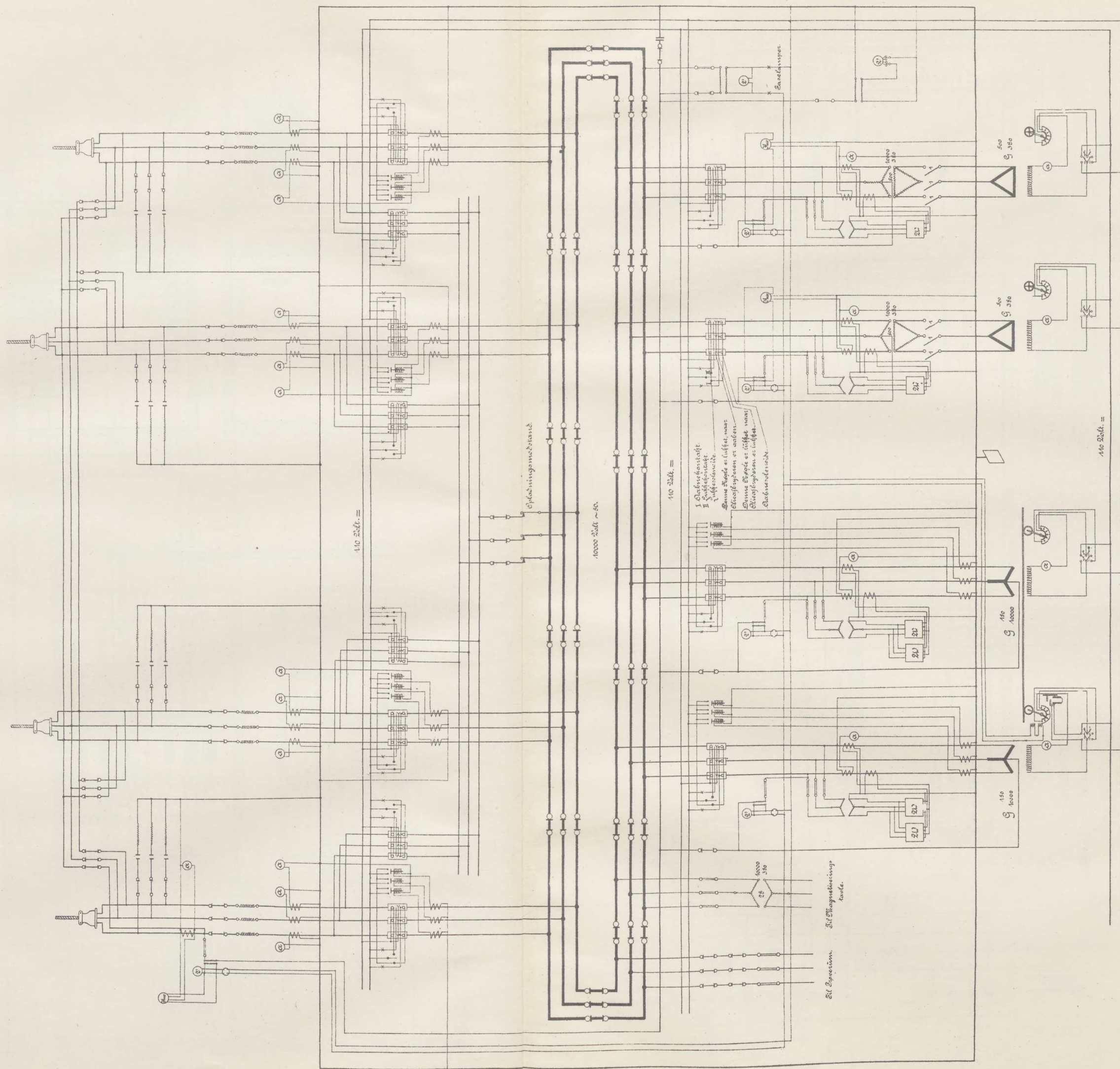


Fig. 151.

Südborg-Flämsborg elektriske Sporvej.
Sjællandsk Elektricitetværk.

Normal Transformatorstation.

Strømchema.

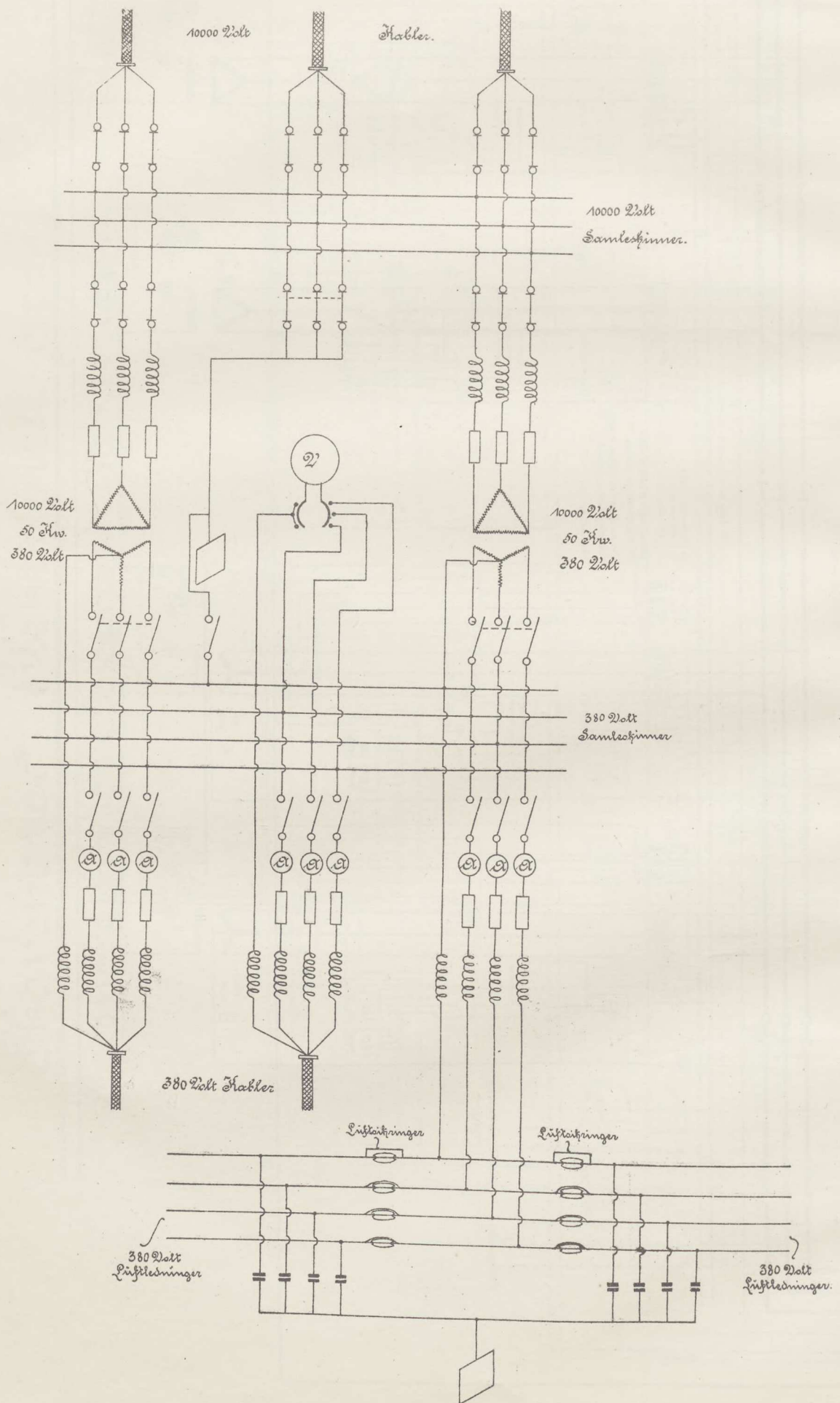


FIG. 152

Transformatorstation i Sterilkonstruktion Type Fz 63.

Elektrisk Udrustning.

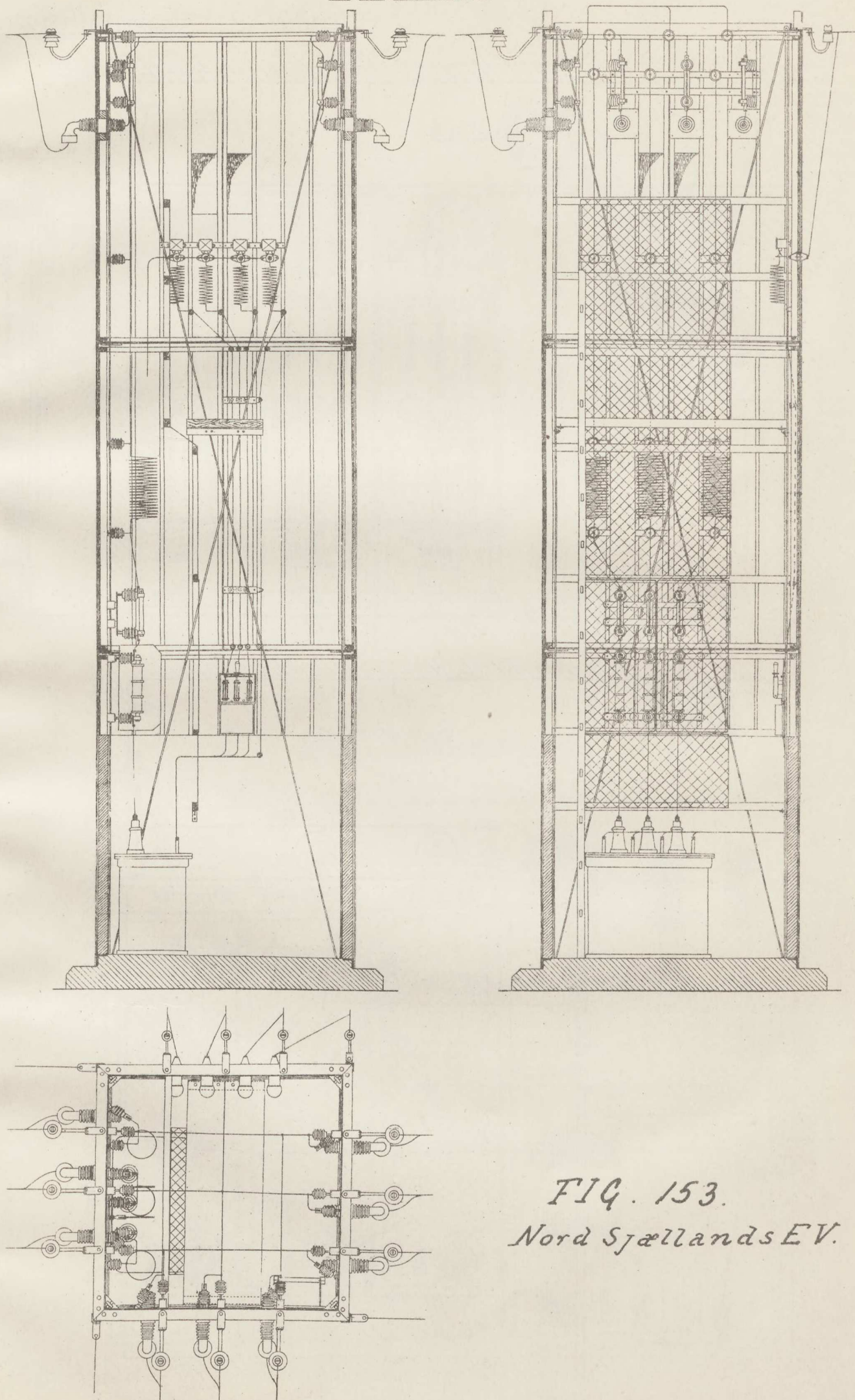
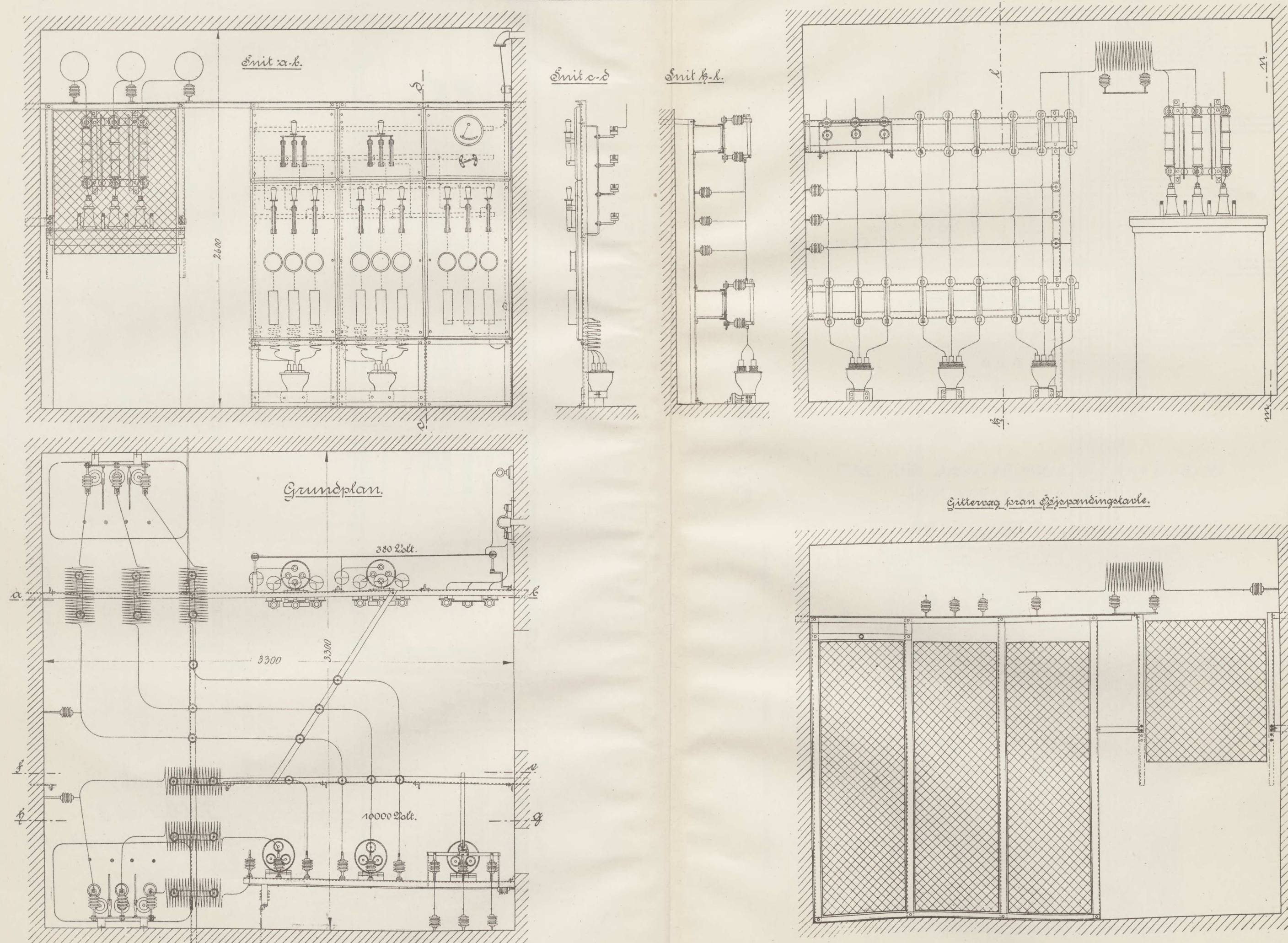


FIG. 153.
Nord Sjællands E.V.

Normal muret Transformatorstation for Hæbelstrækning.



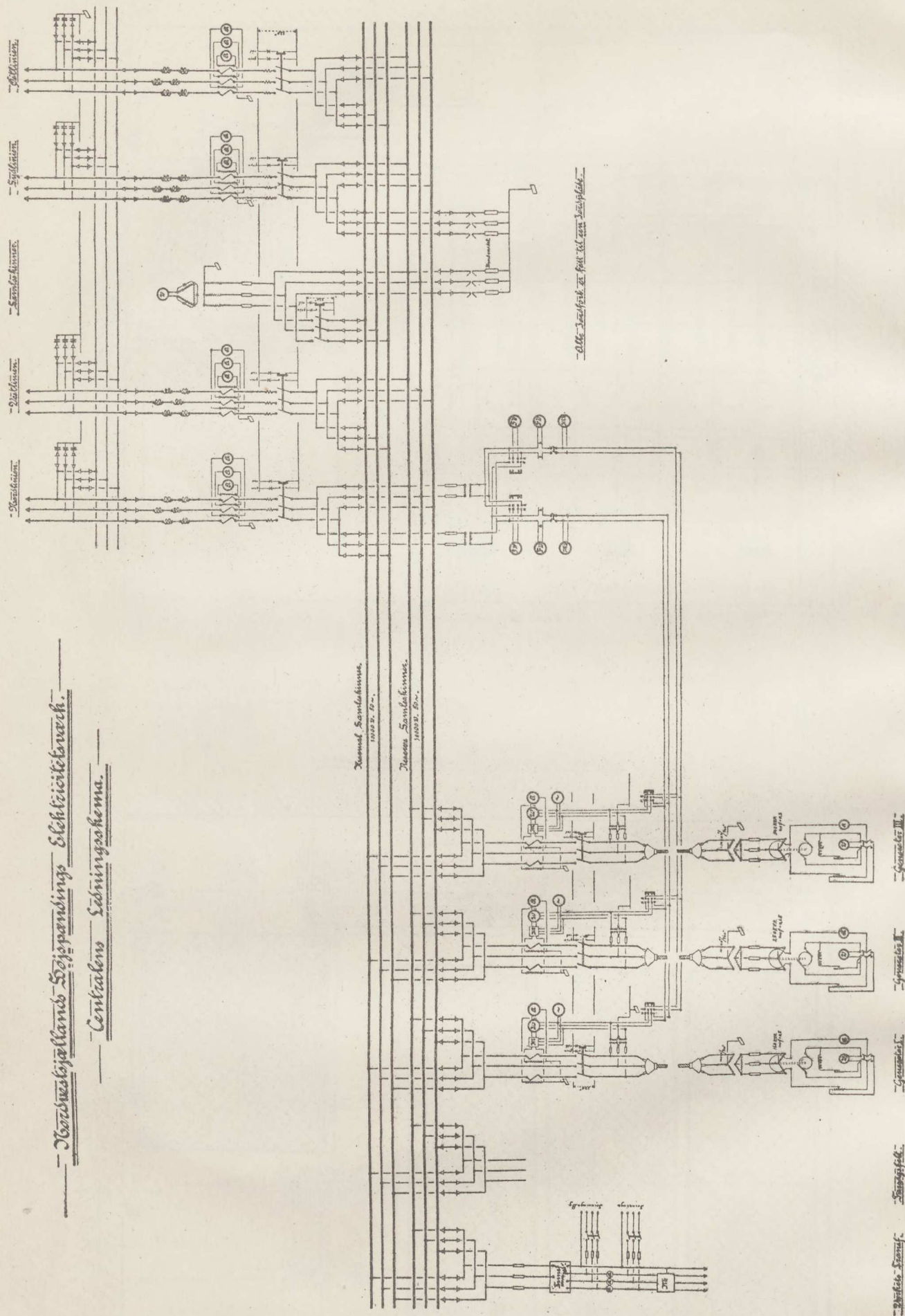
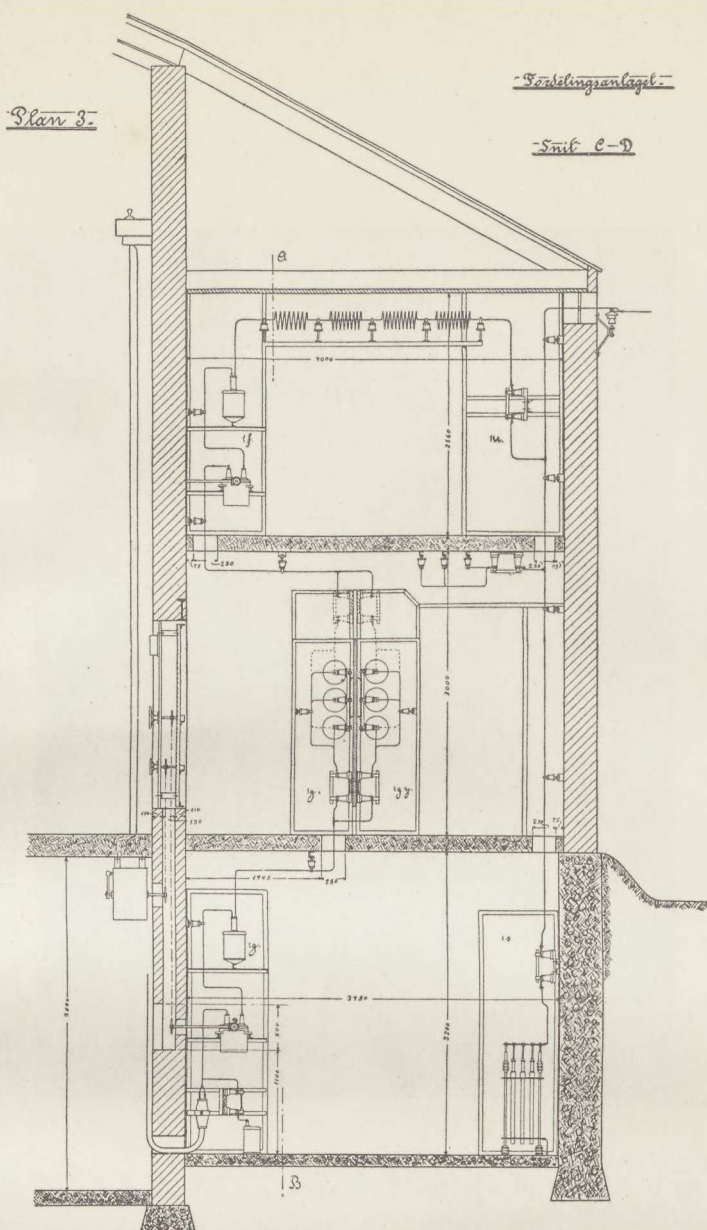


Fig. 155



PL LXXXIX

FIG. 156 SNIT AF HØJSPÆNDINGSRUM
NV. SJÆLLANDS E.V.

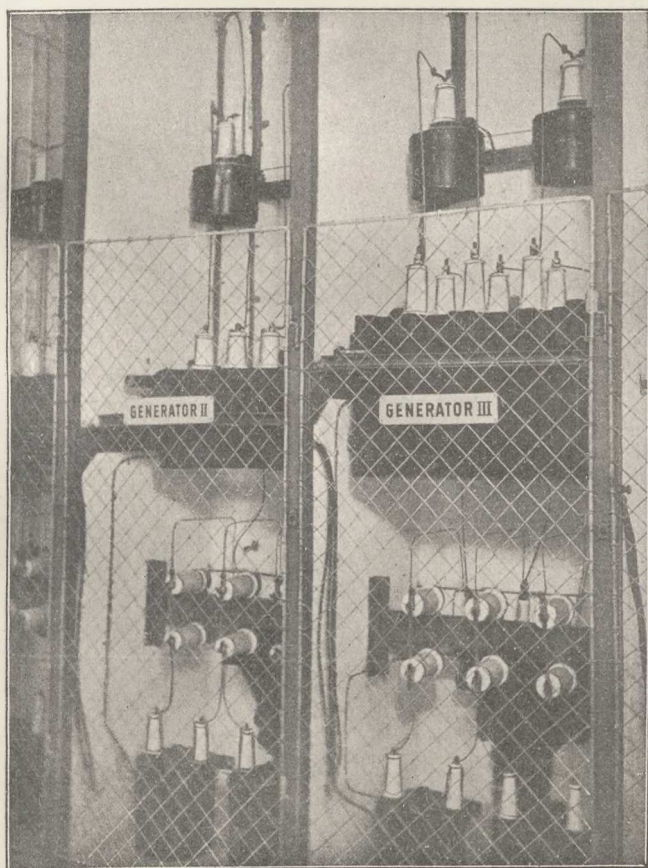


FIG 157. HØJSPÆNDINGSCELLE
NV. SJÆLLANDS E.V.

PL XC.



FIG. 158 KONDENSATORBATTERI.
N.V. SJÆLLANDS EV.

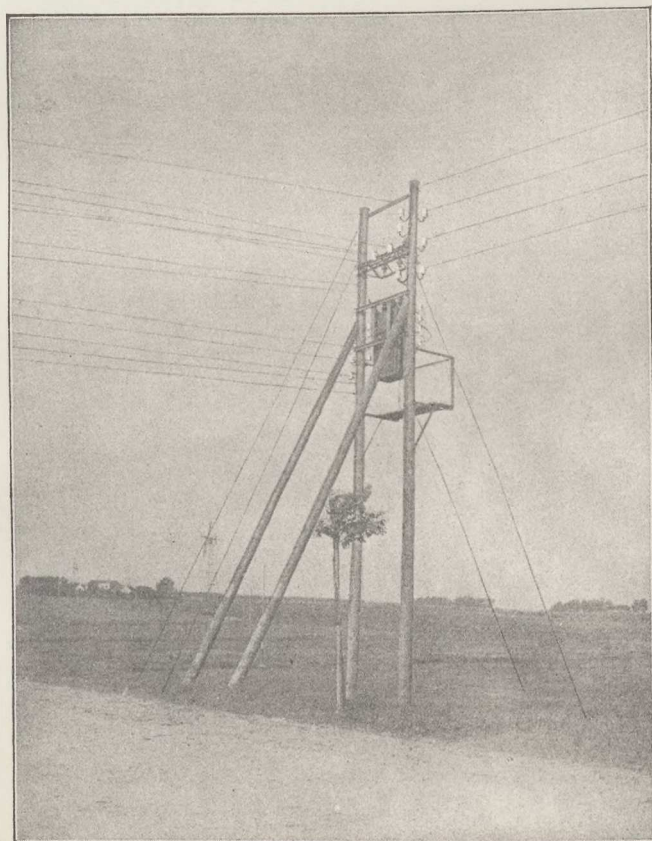


FIG. 159. MASTETRANSFORMATOR

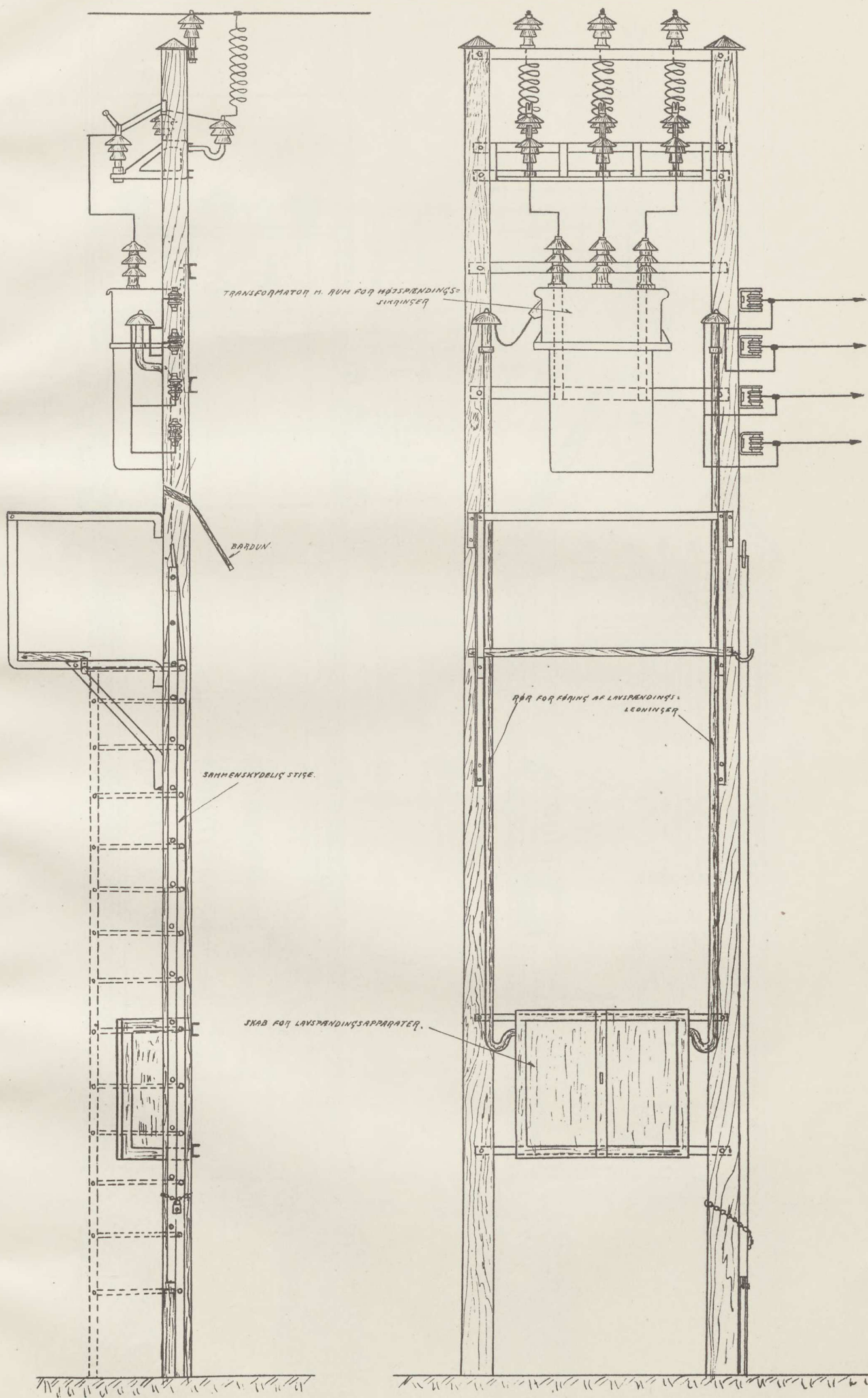


FIG. 160. MASTETRANSFORMATORSTATION.

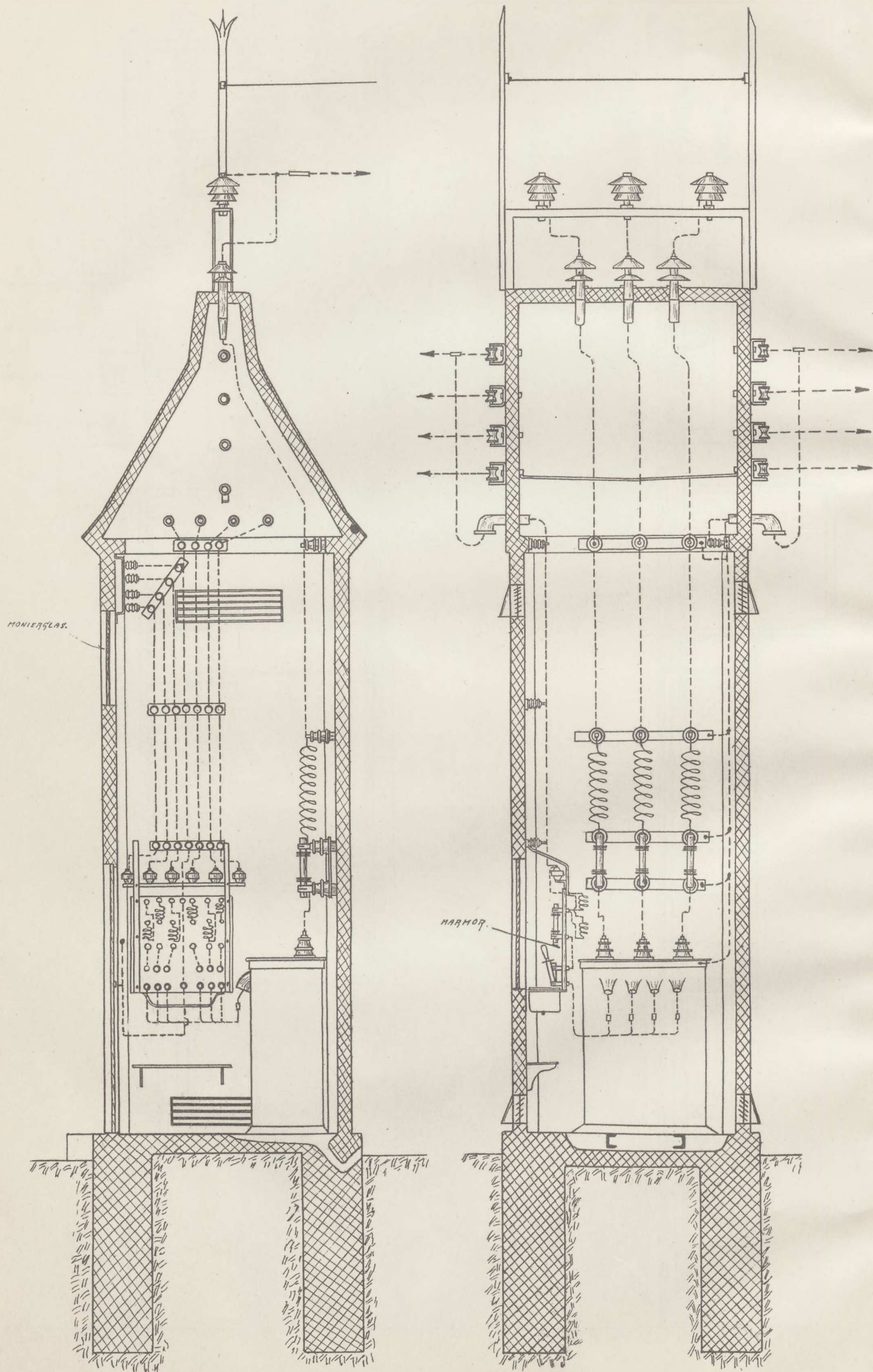


FIG. 161. TRANSFORMATORSTATION SØ. SJÆLLANDSE.V.

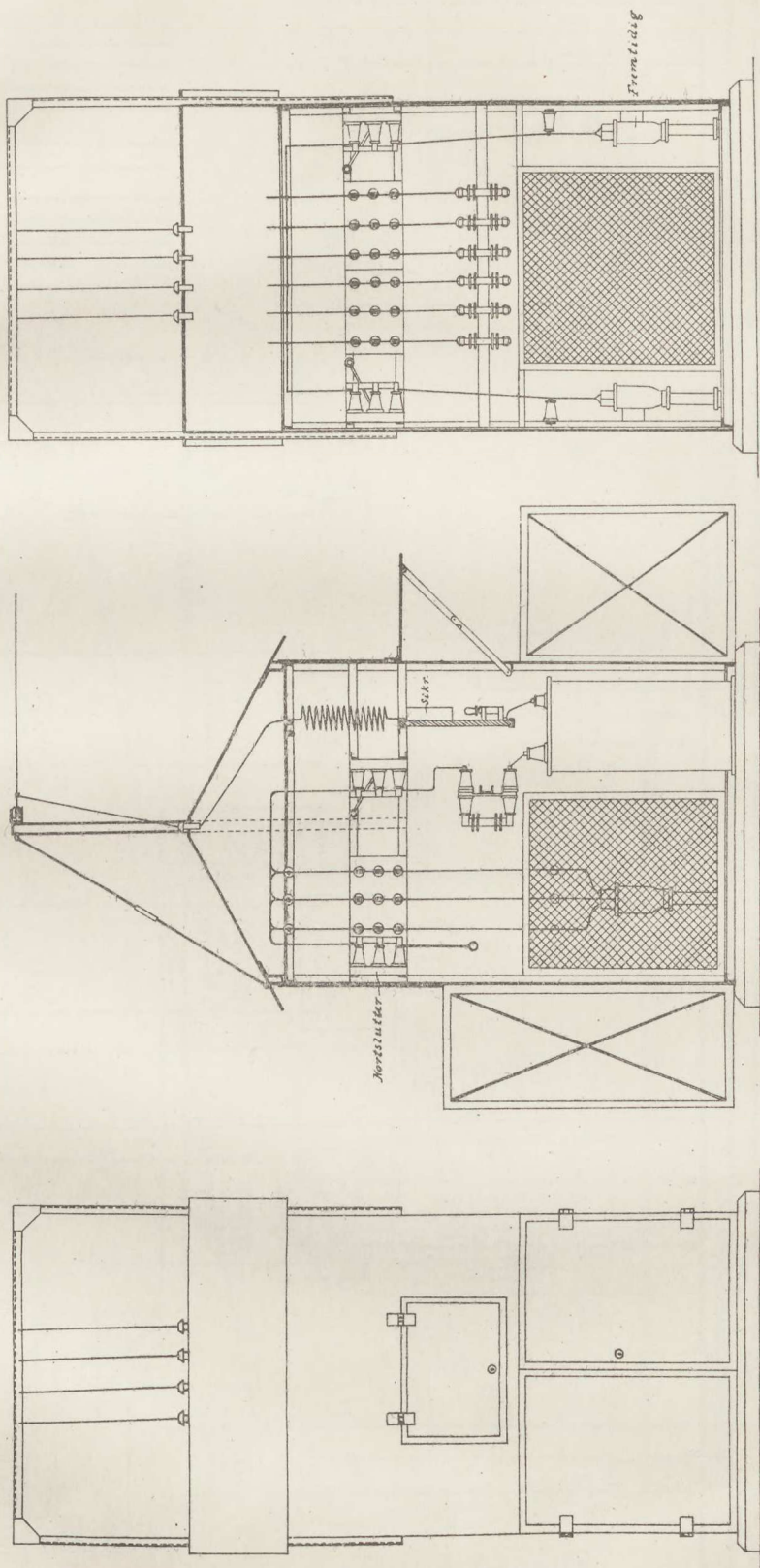


Fig. 162. Transformatorstation ved Havnen
1:40

Faaborg Elektricitetsværk
Udvidelse 1915

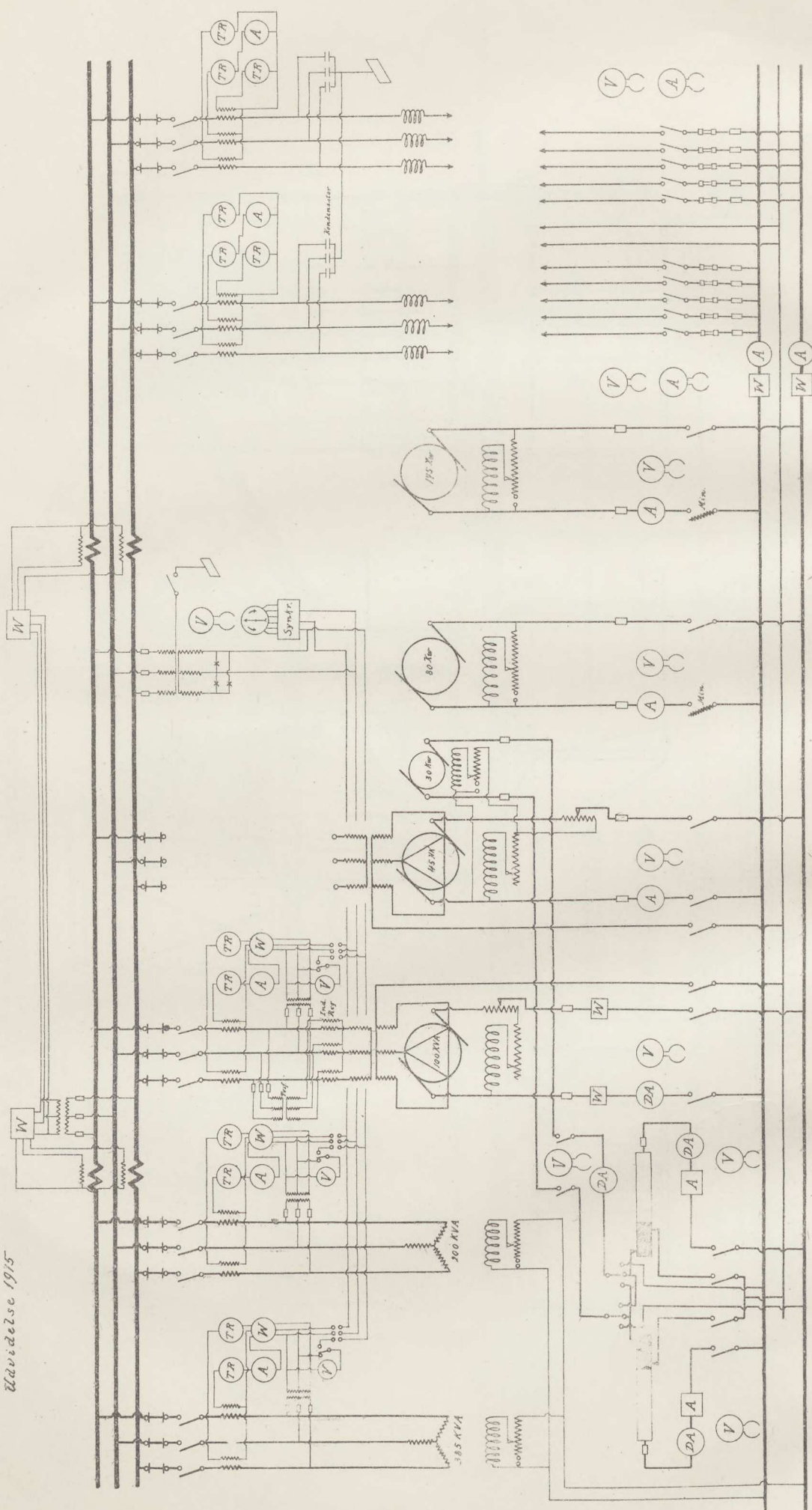


Fig. 163. Ledningschema.

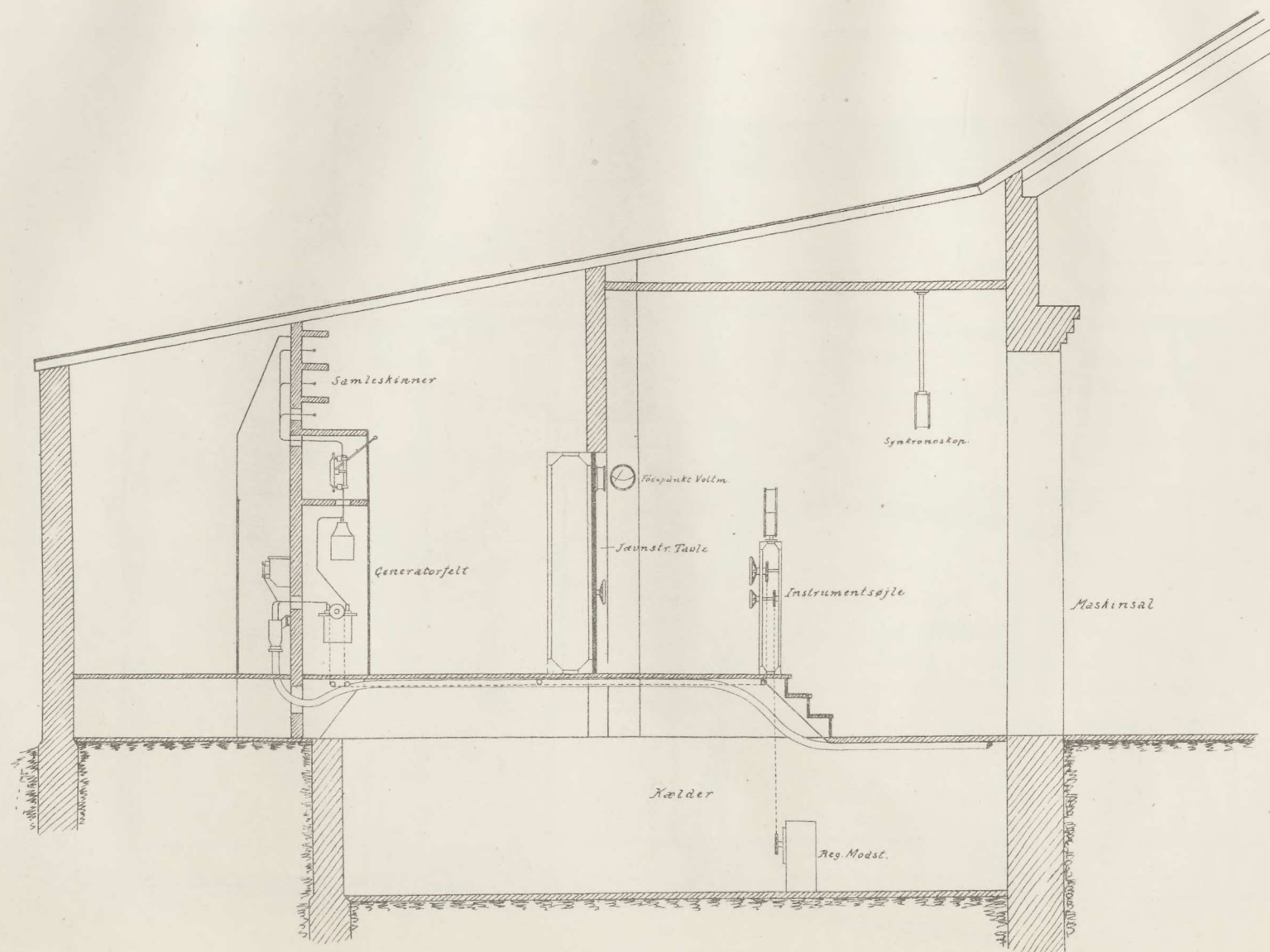


Fig. 164. Snit gennem Tavle og Højspændingsrum.

Faaborg Elektricitetsværk.
Udvidelse 1915
1:10

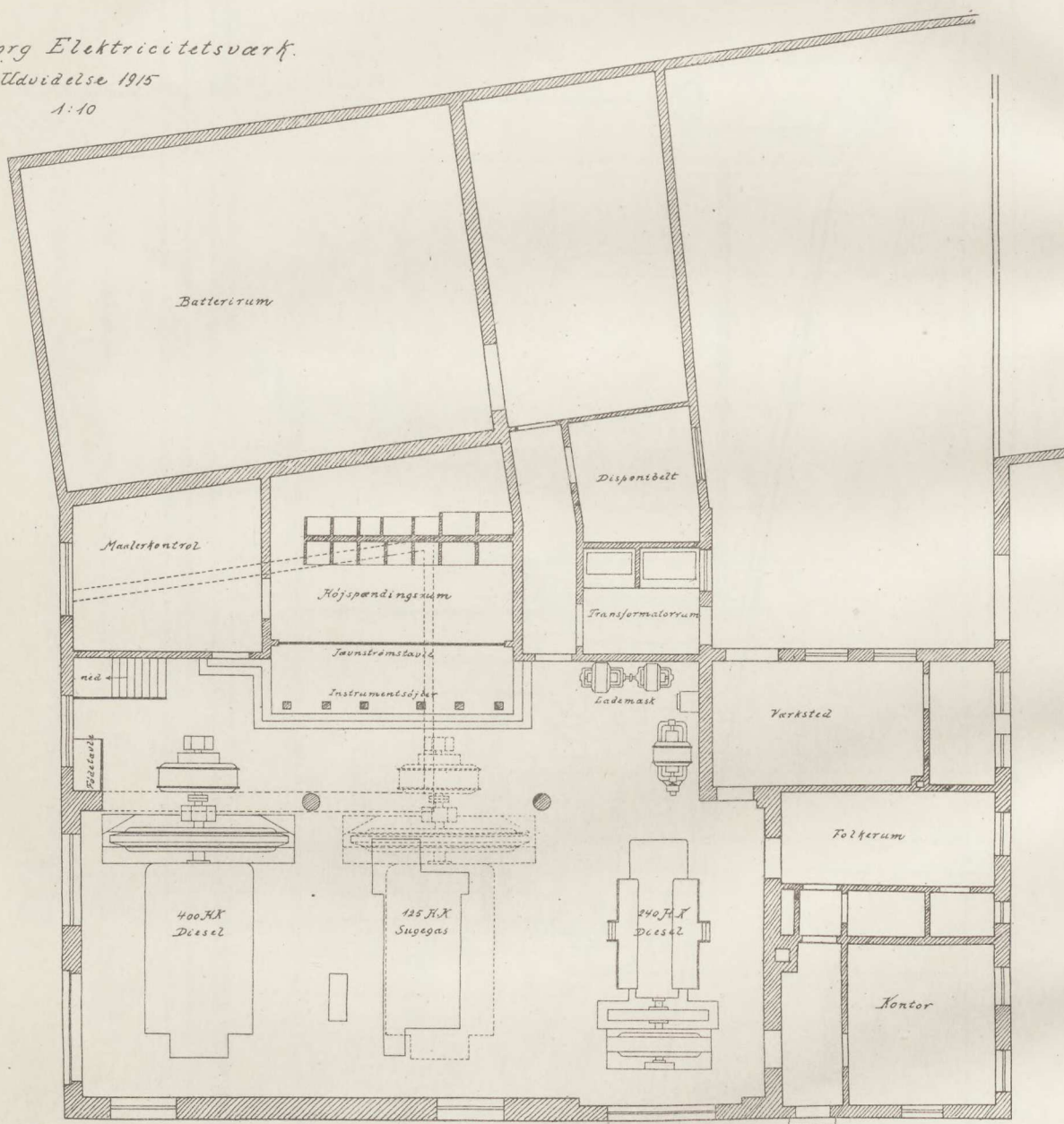


Fig. 165. Grundplan.

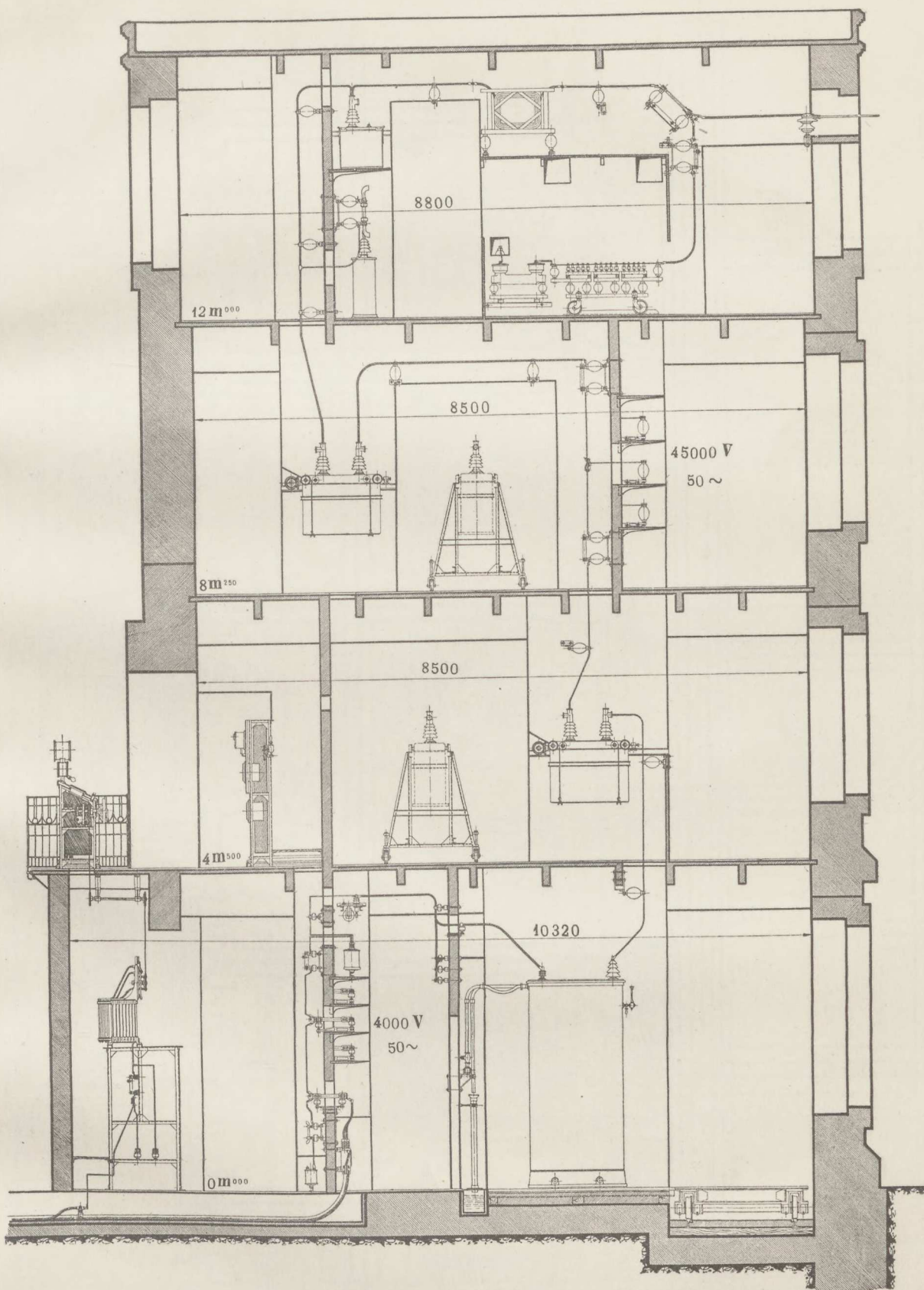


Fig. 166. Usine du Fayet.
45000 Volt

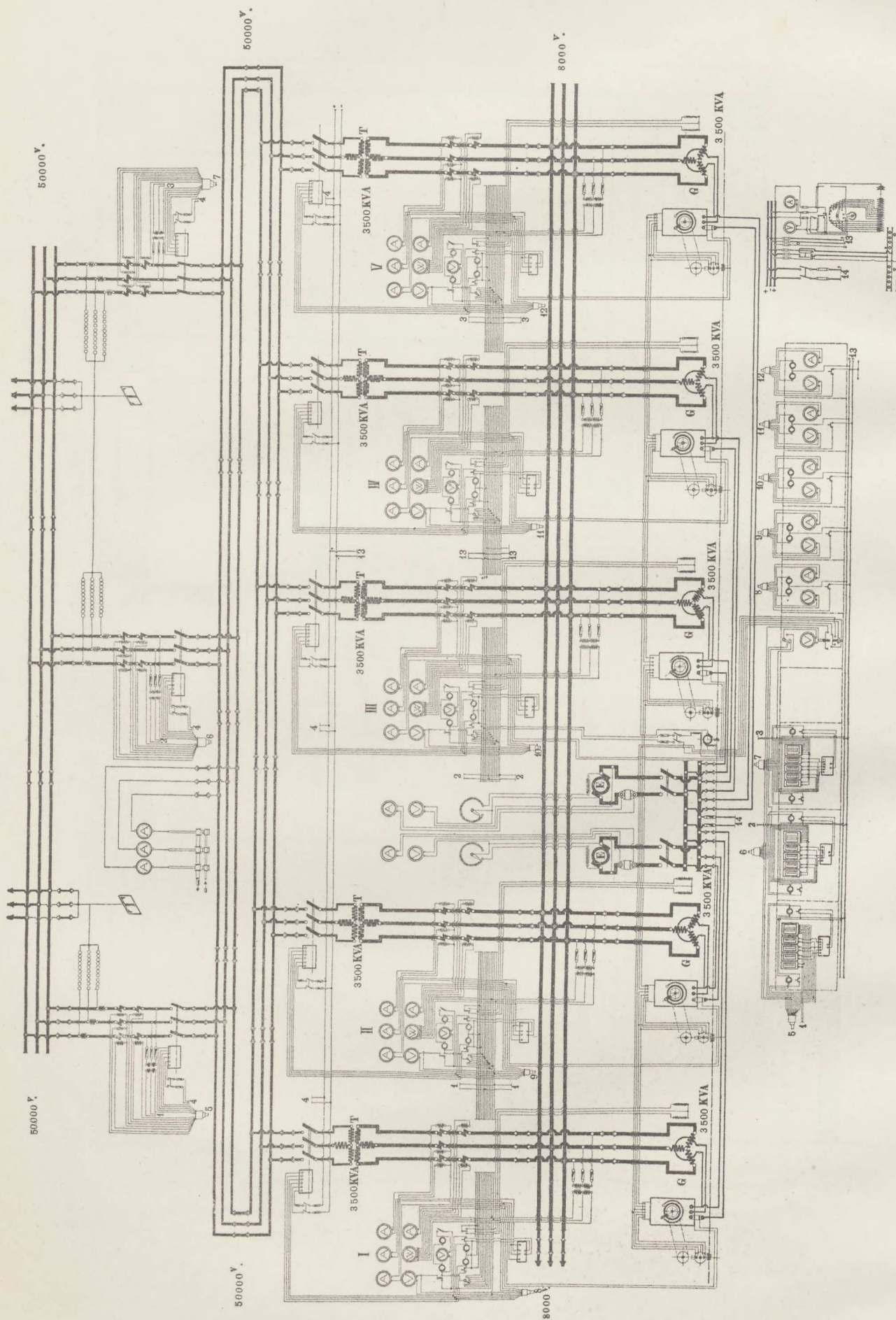


Fig. 167. Centralen Chionmonte.

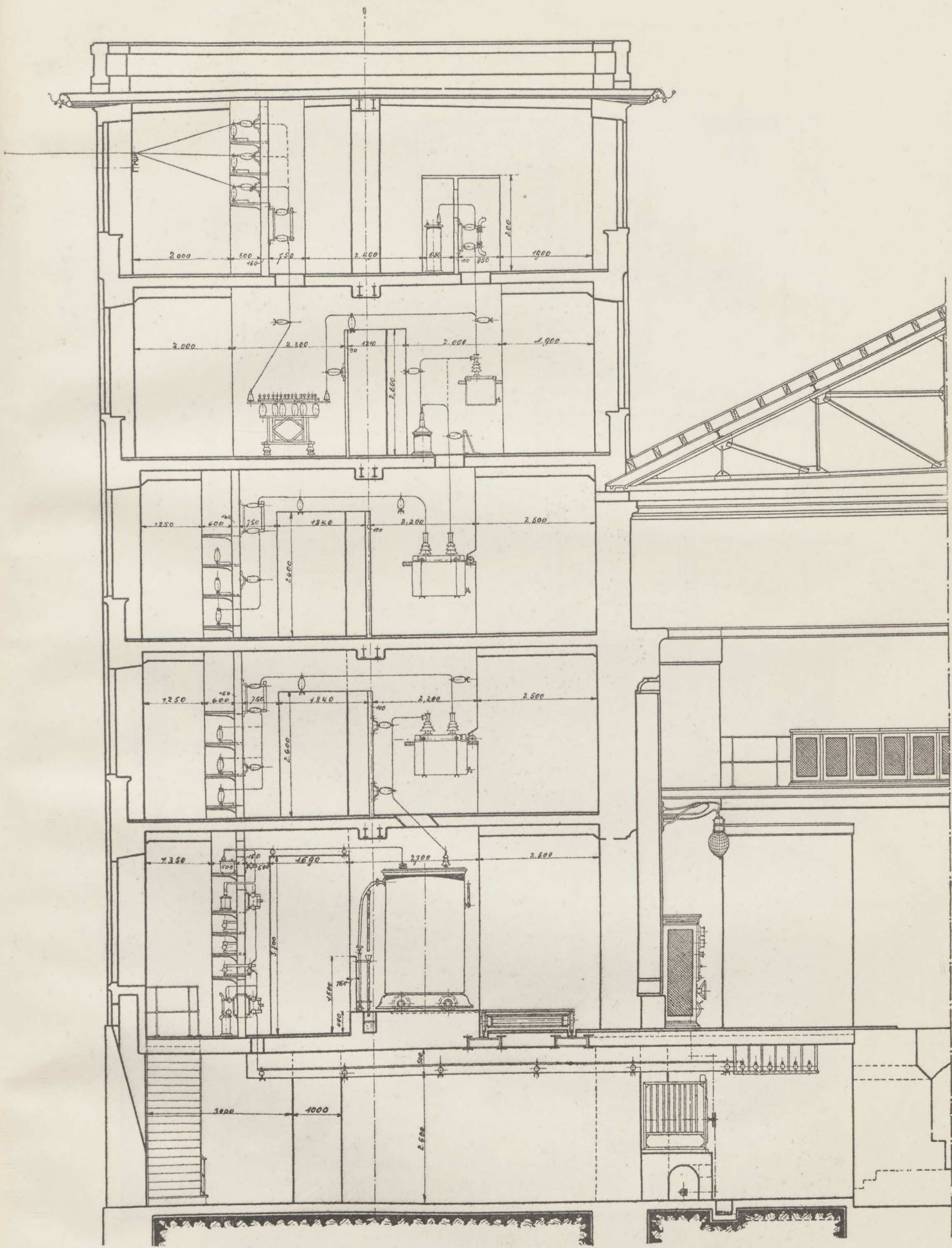


Fig. 168 Centralen Chiomonte

[illegible]

Fig. 169. Elektricitetsværket ved Löntsch.
(Schweiz)

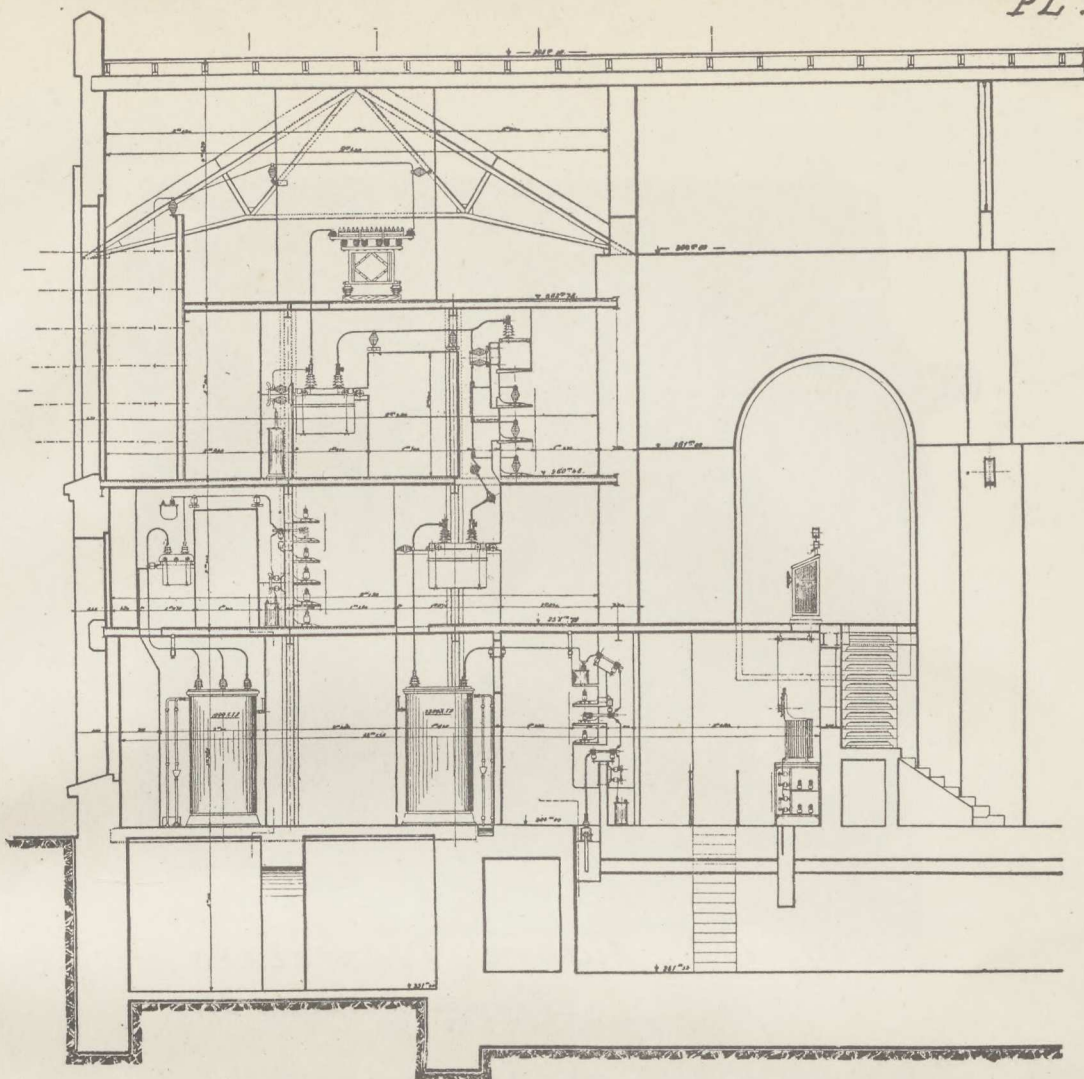


Fig. 170. Centralen Piedimulera

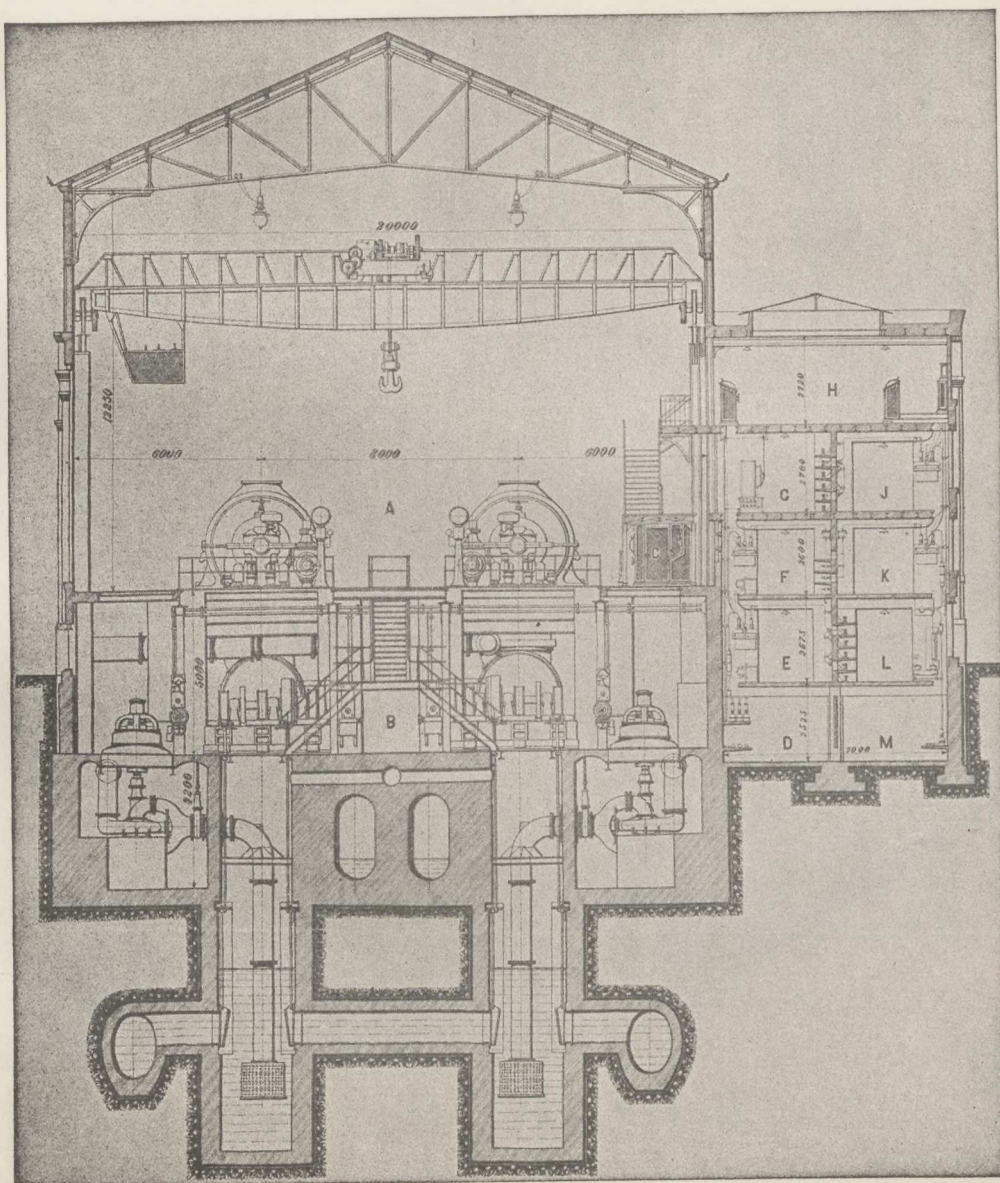
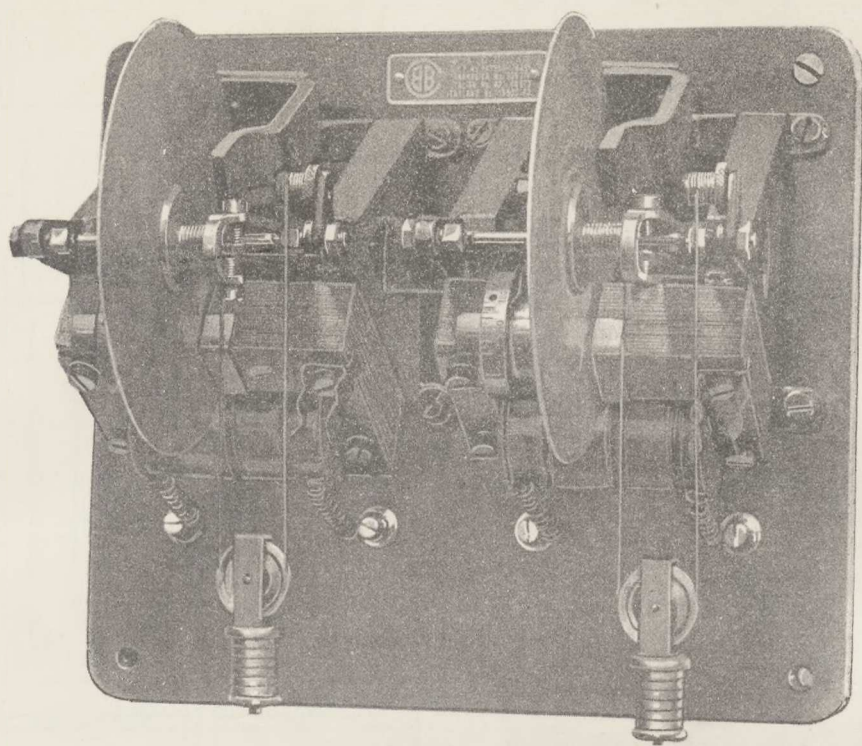


Fig. 171. St. Denis Centralen, Paris.



*Fig. 172. Autom. Tidsrelais.
(Brown, Boveri & Cie)*

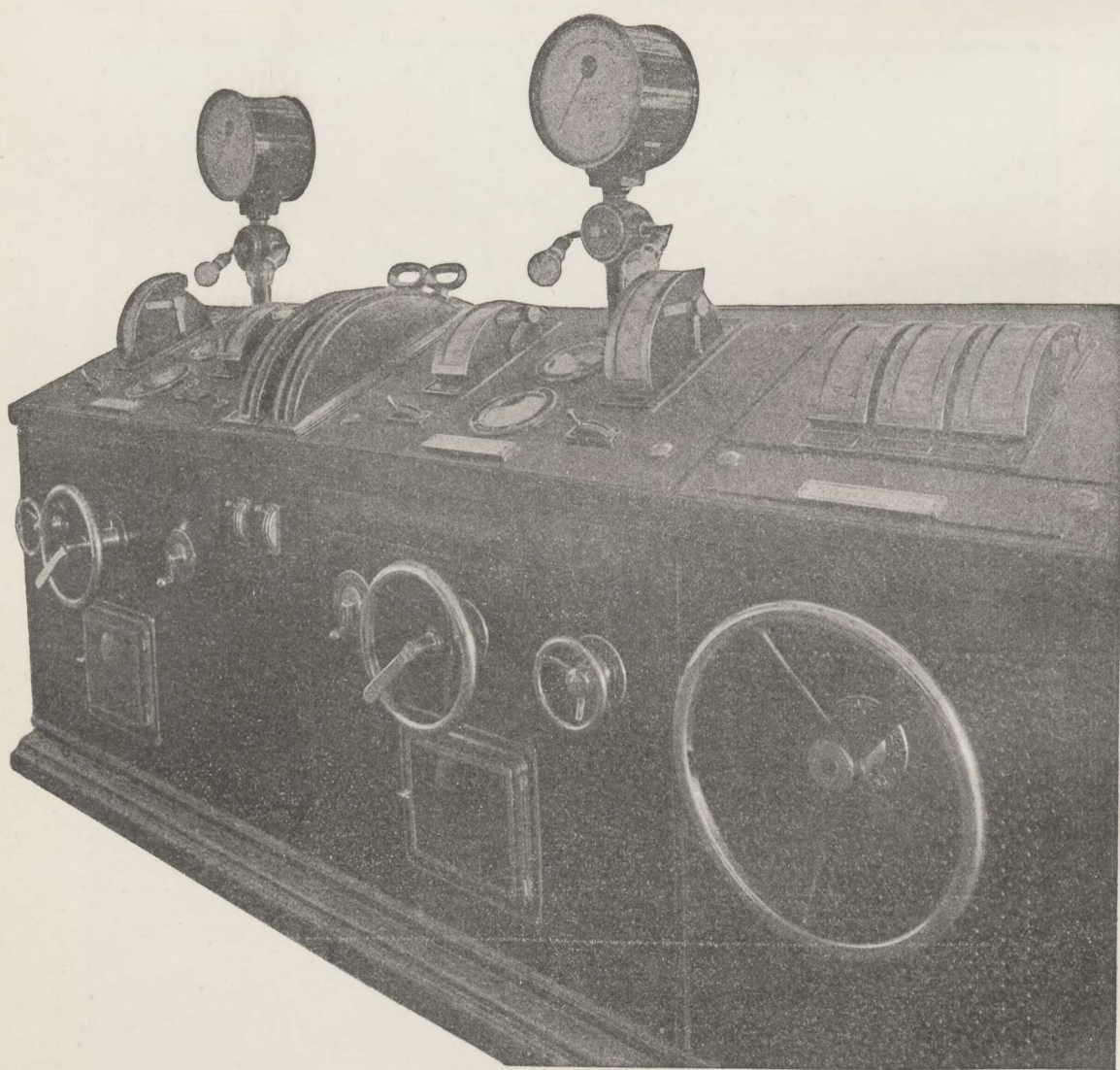
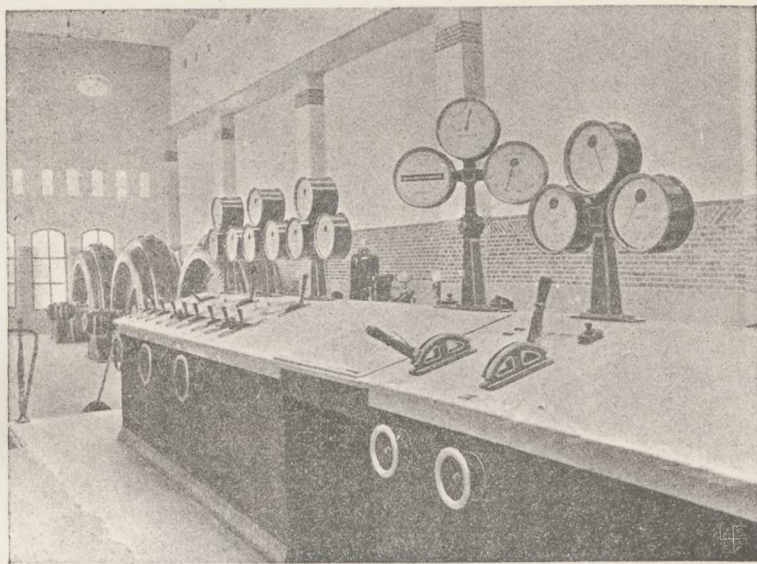
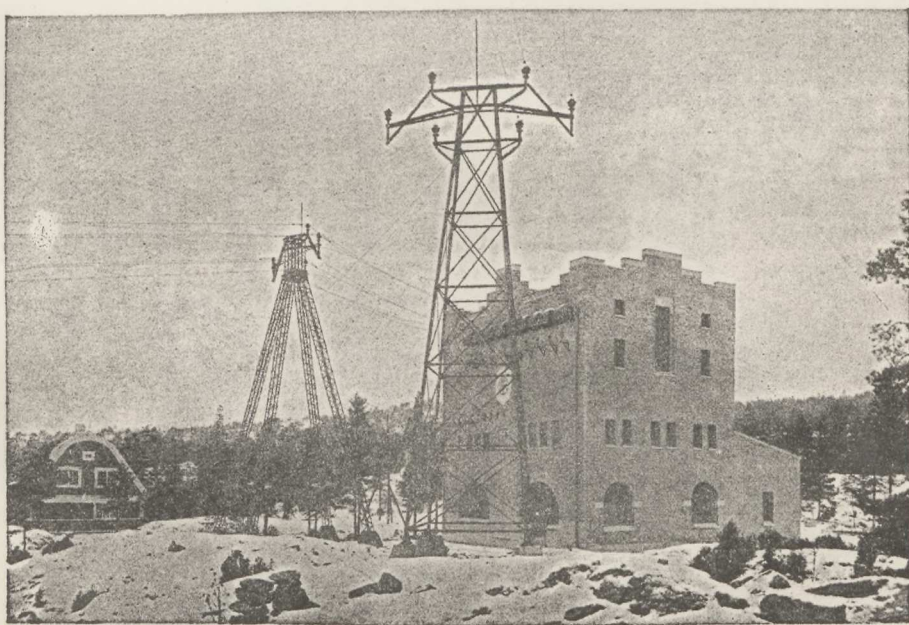


Fig. 173. Generatorpult ; Finsensværk.



*Fig. 174. Generatorpult.
(Allmänna Svenska Elektriske AB).*



*Fig. 175. Udføring af Højsp. Ledninger
(Allmänna Svenska)*

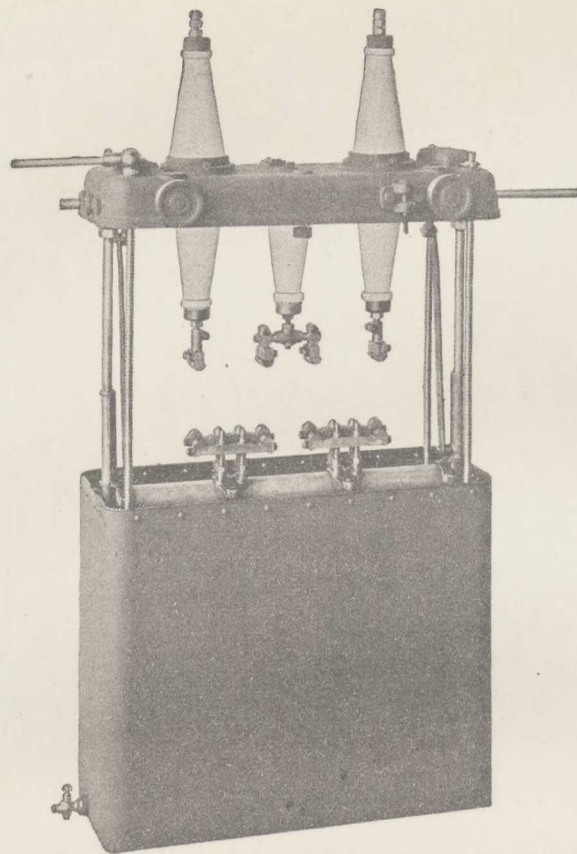


Fig. 176. Enpolet Olieafbryder, Brown-Boveri

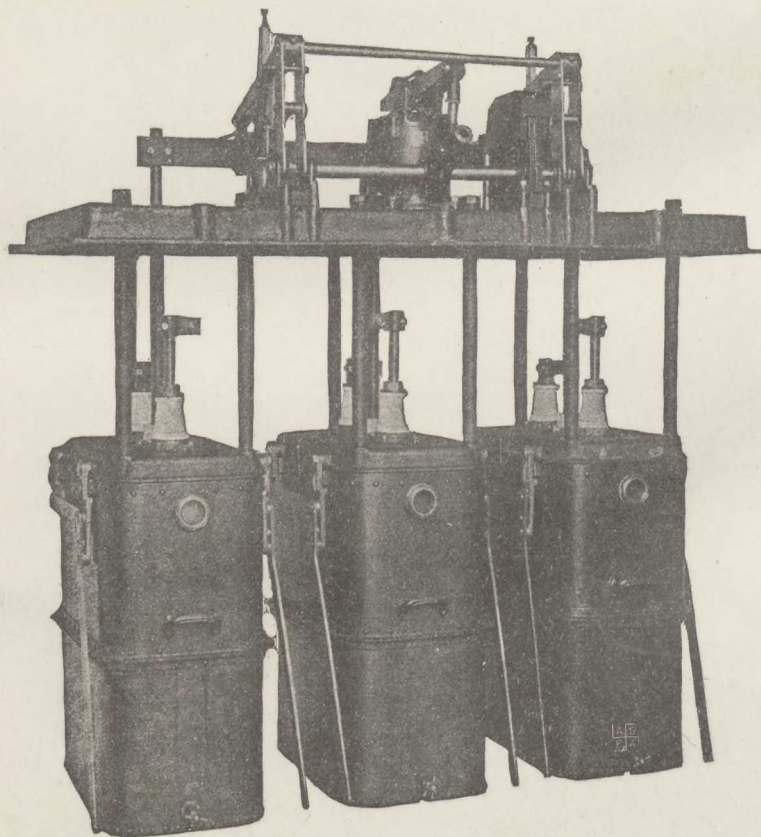
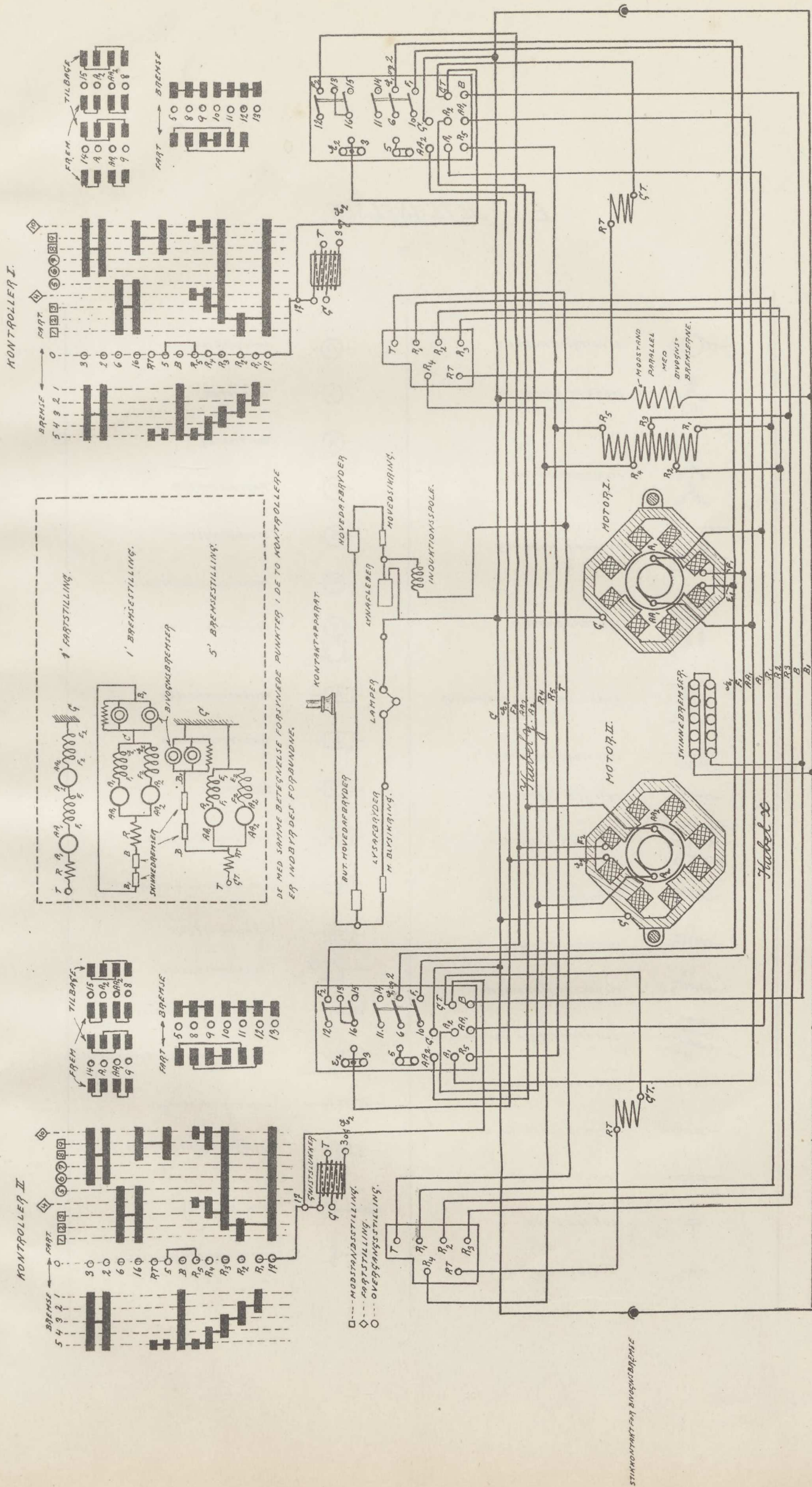
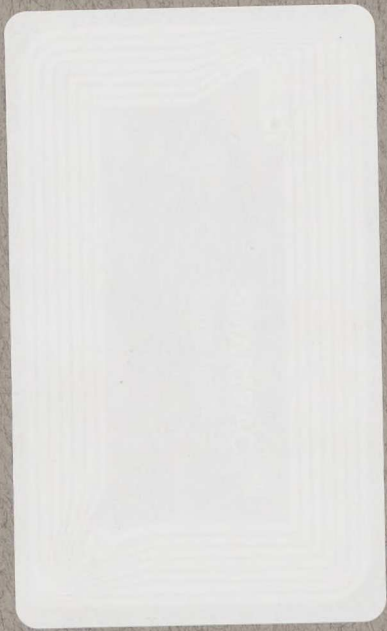


Fig. 177. Trepolet Olieafbryder, Allmänna Svenska.



E. BETEGNELSER.

	JEVNSTRØMSMASKINE		AMPEREMETER
	SYNKRON GENERATOR		VOLTMETER
	ASYNKRON MOTOR		WATTMETER
	ETANKEROMFORMER		FASEVOLTmeter
	TRANSFORMATOR		SYNCHROSKOP.
	SPÆNDINGSTRANSFORMATOR		FASEFORSKYDNINGSMÅLER.
	STRØMTRANSFORMATOR		VOLTMETER H. OMSKIFTER.
	ENPOLET AFBRYDER		AMPÈRETIMEMÅLER
	TREPOLET AFBRYDER		WATTTIMEMÅLER
	MINIMALAFBRYDER		TIDSRELAIS
	MAKSIMALAFBRYDER		TILBAGESTRØMSRELAIS.
	TILBAGESTRØMSAFBRYDER		HYLPERELAIS FOR TIDSRELAIS.
	OLIEAFBRYDER H. MAKSIMALSTØRSE		MAKSIMALRELAIS
	OLIEAFBRYDER H. MAKSIMALSTØRSE		TORDFORBINDELSE.
	LEDNINGSAFSKILLER		INDUKTIONSFRI MODSTAND
	AMPÈREMETER-SHUNT.		INDUKTIONSFRI, REGULERBAR MODSTAND.
	SMELTESIKRING.		INDUKTIV MODSTAND
	KONDENSATOR.		INDUKTIV, REGULERBAR MODSTAND.
	GLØDELAMPE.		ALM. OMSKIFTER.
			OMSKIFTER UDEN AFBRYDESTILLING.



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