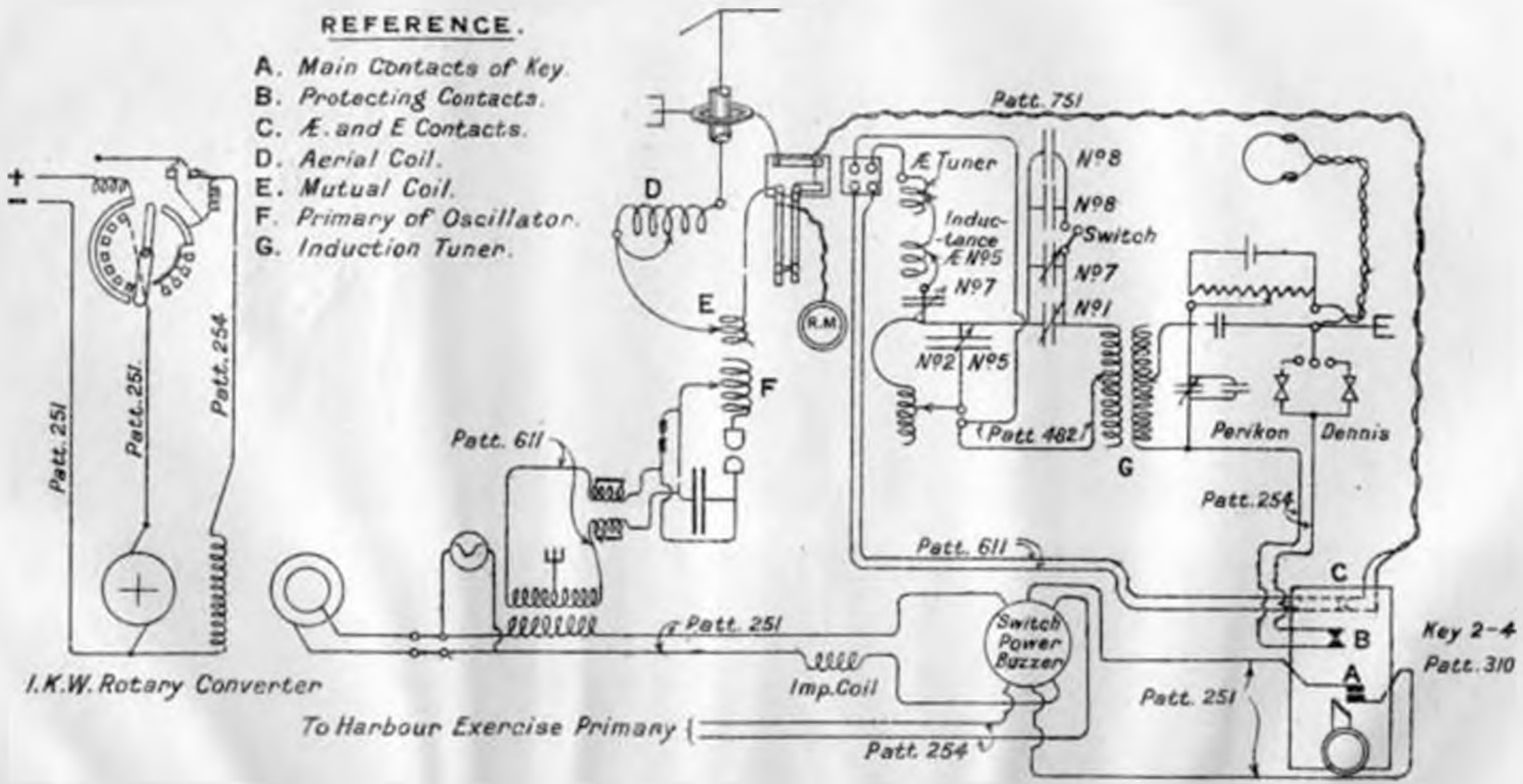
W/T. INSTALLATION, TYPE 4. DIAGRAM OF CONNECTIONS.

Fig. 1.



WIRELESS TELEGRAPHY HANDBOOK

FOR

TYPE 4 (DESTROYER) SETS.

1914.

HANDBOOK OF WIRELESS TELEGRAPHY FOR TORPEDO BOAT DESTROYERS.

In order to comply with the directions contained in Admiralty Letter G. 11724 050F. the 19th August 1905, care is to be taken to prevent any unauthorised person having access to the wireless office. When not actually in use the office is to be kept locked and the shutters for the windows are to be kept shipped.

INTRODUCTION.

It is impossible in a handbook of this nature to give much information other than that required for the actual working of the Wireless Telegraphy set under consideration, but, in order that all officers and men concerned may gain some knowledge of the theoretical considerations governing the practical application of Wireless Telegraphy, a careful study of the Manual of Wireless Telegraphy, Volume I., is most strongly recommended.

The increased capabilities of the modern Destroyer have rendered long distance communication essential, and the fact that the Type 4 sets may possibly be subject to more unfavourable conditions of working than the sets supplied to larger ships should only tend to increase the care taken to maintain the efficiency of these installations.

The Type 4 set has been designed to transmit any wave-length from 9·5 L.S. to 91·4 L.S. inclusive; and to receive any wave-length up to 14,000 feet.

For the present, "D" wave is the normal wave-length for Destroyers.

"D" wave is 700 feet and has an L.S. of 11·5.

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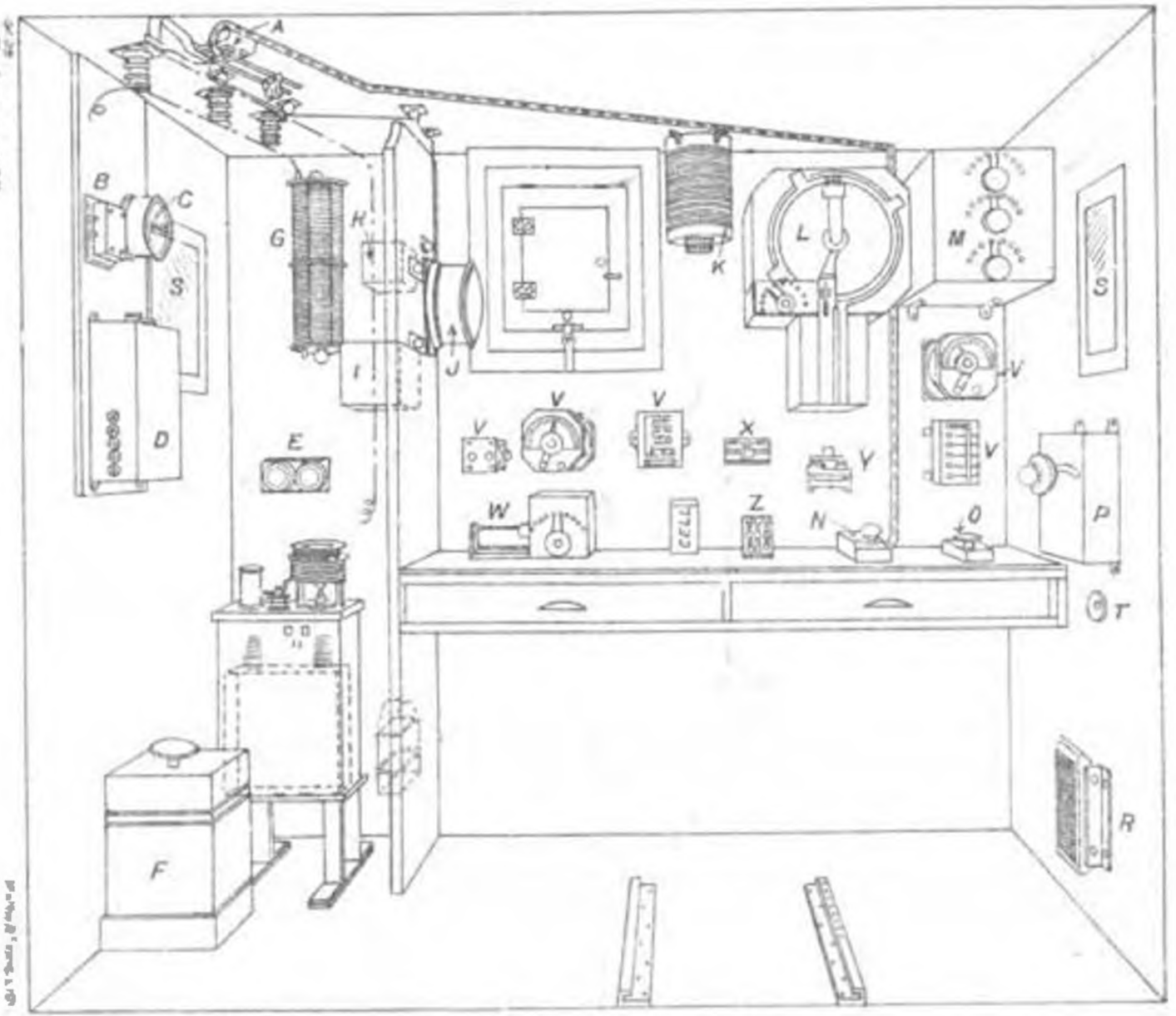

GENERAL ARRANGEMENT OF INSTRUMENTS.

Fig. Ii.

REFERENCE.

A Earth Ring fitting
B Double-pole cutout
C Frequency Meter
D Sway Distribution Box
E Protecting coils
F Starter and Field regulator
G Coil aerial Type 4
H Coil for exercise set
I Box of cells for exercise set
J Radiation meter
K Inductance aerial, No 5
L Rejector
M Aerial tuner
N Key. Type 2-4
O Switch power Buzzer
P Circulator regulator
R Radiator
S Windows
T Bell push to bridge
V Condensers. 7 8.13 & Telephone
W Induction turner
X Potentiometer
Y Break down Fuse
Z Detector

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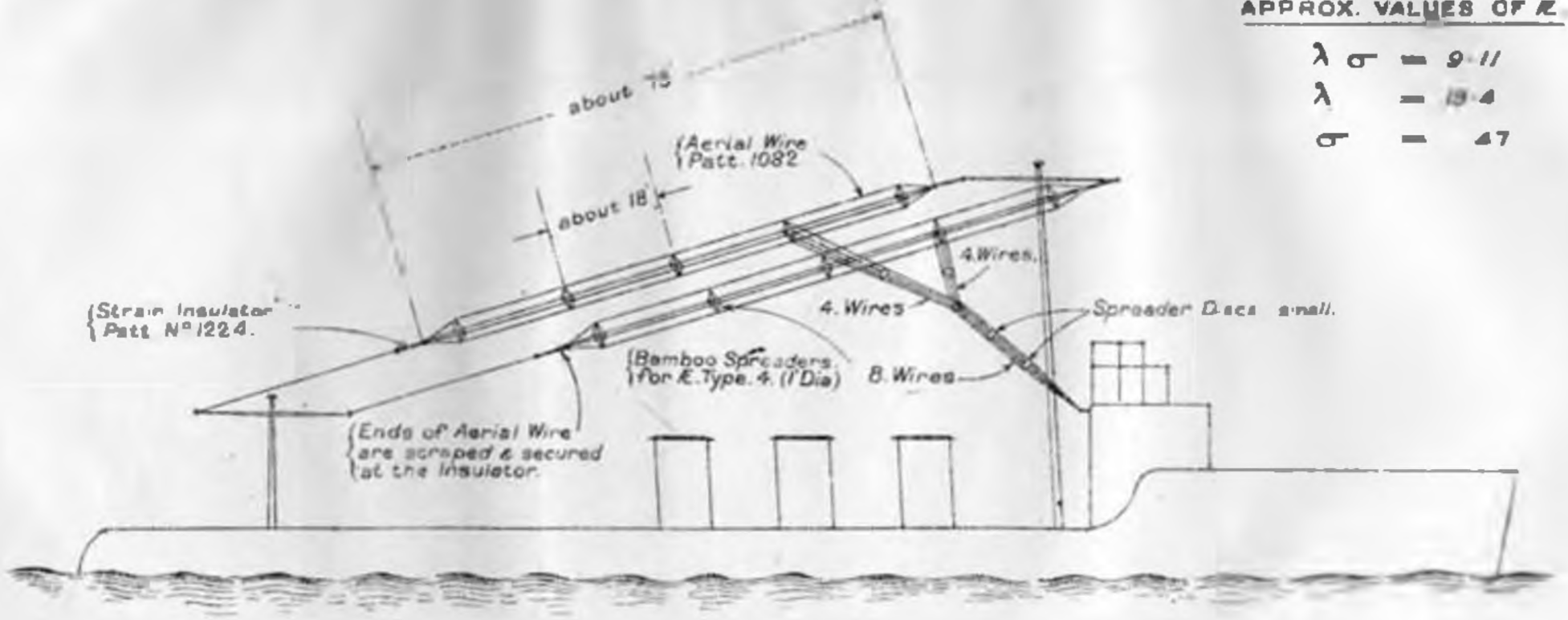
STANDARD AERIAL. TYPE 4. SETS. (WHERE YARDS ARE FITTED.)

Fig. 8.



APPROX. VALUES OF Æ.

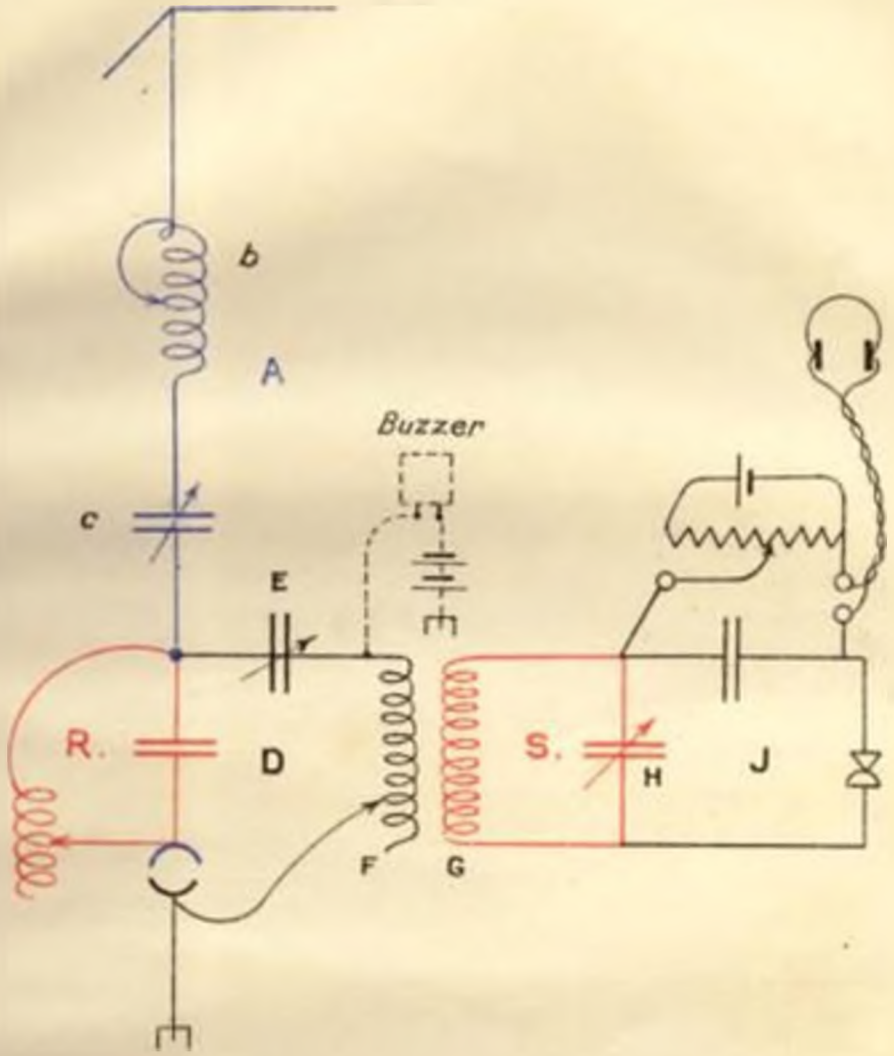
$\lambda\sigma = 9 \cdot 11$

$\lambda = 19 \cdot 4$

$\sigma = 47$

TYPICAL RECEIVING CIRCUIT.

Fig. 6.



REFERENCE.

A. Aerial Circuit.
D. Acceptor Circuit.
J. Detector Circuit (Aperiodic)
R. Rejector Circuit.
S. Intermediate Circuit.

NOTE. The Connections to the Testing Buzzer when using Carborundum are indicated.

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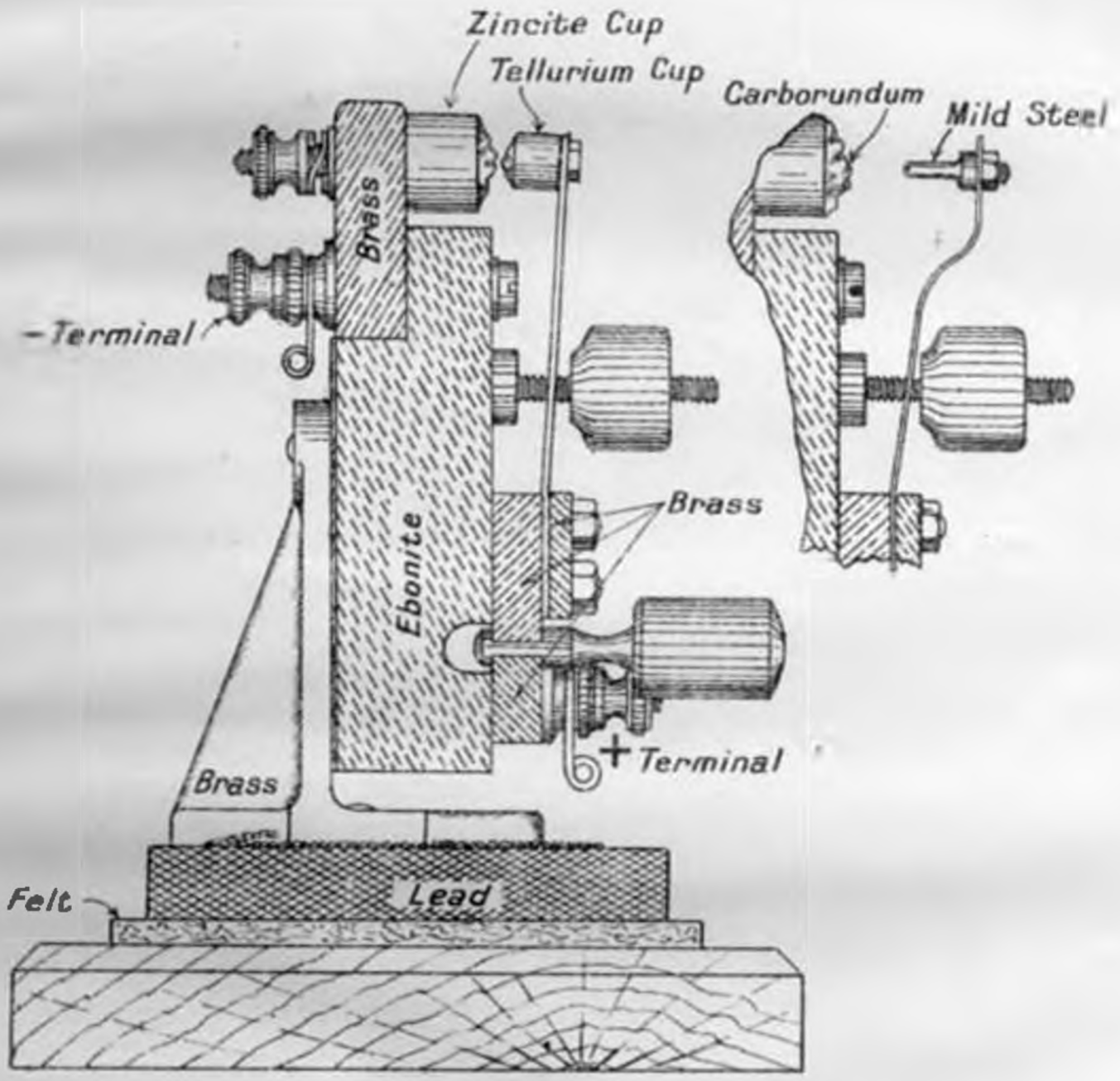
DETECTOR DENNIS, PATT. 309.

Fig. 4.

HOLDER FITTED FOR DENNIS DETECTOR.

HOLDER FITTED FOR CARBORUNDUM.



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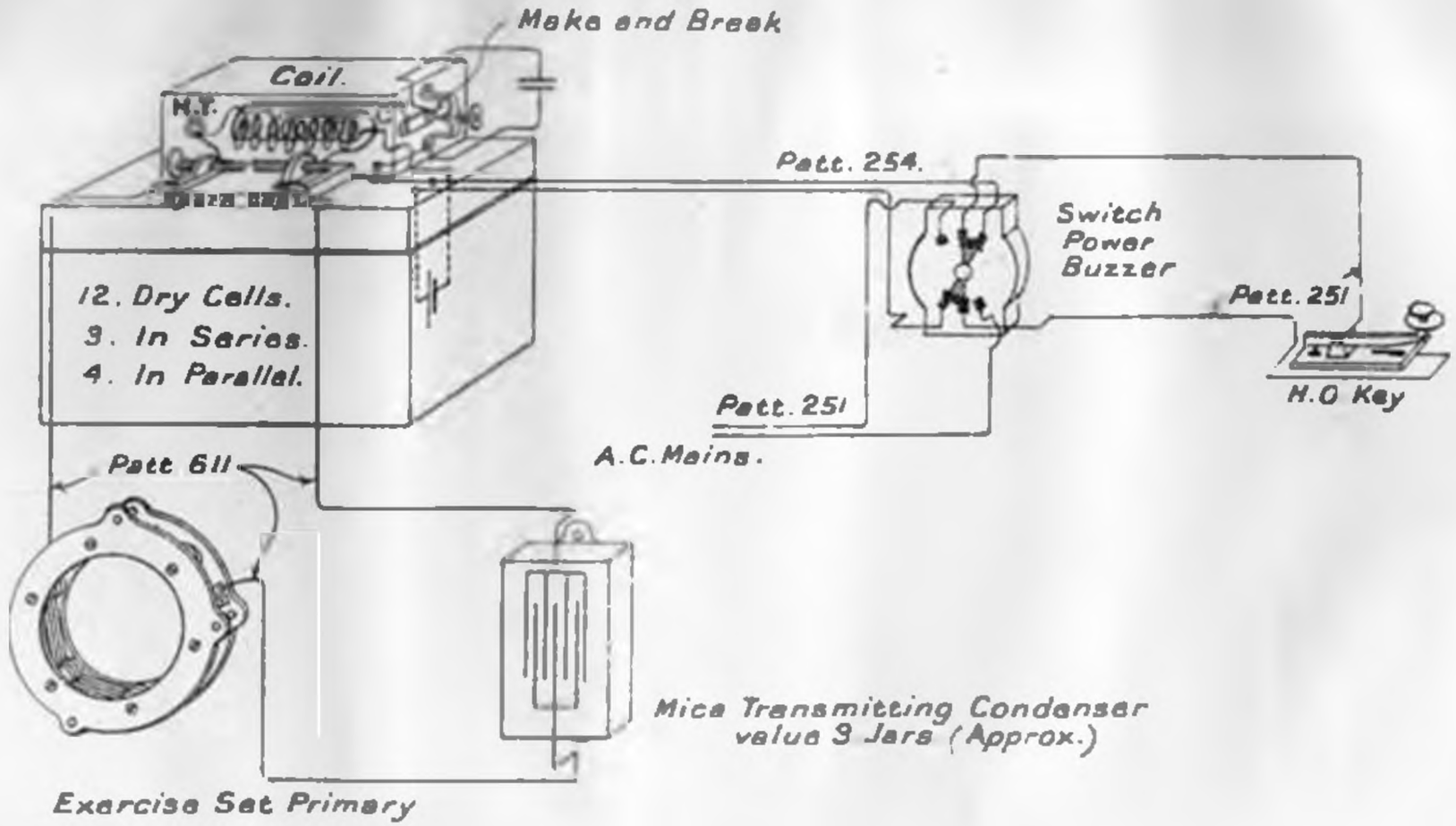
EXERCISE SET. TYPE. 4.

Fig. 10.



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