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TECHNICAL REPORT No. 419-45

GERMAN JDA 105 LINE UNIT

September 1945

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File: A9-16(3)(40/Hn)

Serial: 101177

28 September 1945.

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TECHNICAL REPORT No. 419-45

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GERMAN JDA 105 MINE UNIT

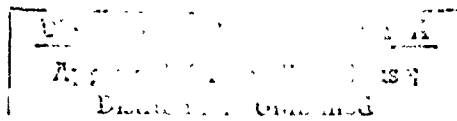
SUMMARY

This report contains information on the German JDA 105 mine firing unit. This unit is a combined induction-pressure-acoustic operated device designed for use in the M 1000 J mine. The JDA 105 unit was on the verge of production at the end of the war in Europe and was not used operationally.

September 1945

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GERMAN JDA 105 MINE UNIT

1. Introduction.

A. The German JDA 105 mine unit is an attempt to substitute an induction influence component into a combination mine firing mechanism. Essentially, the JDA 105 is the same as the MA 105 unit described in NavTecMisEu Technical Report No. 420-45, except that in JDA 105 an induction circuit is used instead of the dip-needle magnetic, and a "permissive" pressure (D) circuit is added.

B. No samples of the subject unit have been captured but considerable documentary information is available and is being forwarded to U.S. The information contained herein has been obtained through preliminary screening of documents and interrogation of German prisoners of war.

2. General.

The JDA 105 unit is a combined induction-pressure-acoustic mine firing mechanism of the same basic design as the MA 105. It is identical in appearance to the MA 101 except that it is fitted with an aluminum plate mounting the pressure-detecting device instead of the magnetic component hemisphere found on MA 101. As well, JDA 105 is fitted with a packing gland for leads to the coil-rod, which is mounted separately from the unit in a tube in the case of the EM 1000 J mine. Except for the introduction of the pressure component and substitution of the induction system, the unit appears to be identical to the MA 105.

3. Details.

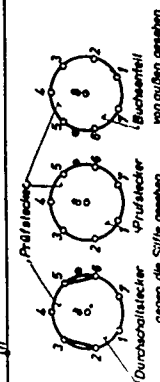
Information on the details, trials and state of development of JDA 105 is contained in the documents captured at the Luftwaffe Erprobungs-Stelle, Travemunde/Priwall, Germany. These documents are listed in Encl. B. of ComNavEu Ser. X 2929-S-45 of 3 Aug. 1945, and microfilm copies of these documents have been forwarded to U.S.

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5, Jun 2340

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