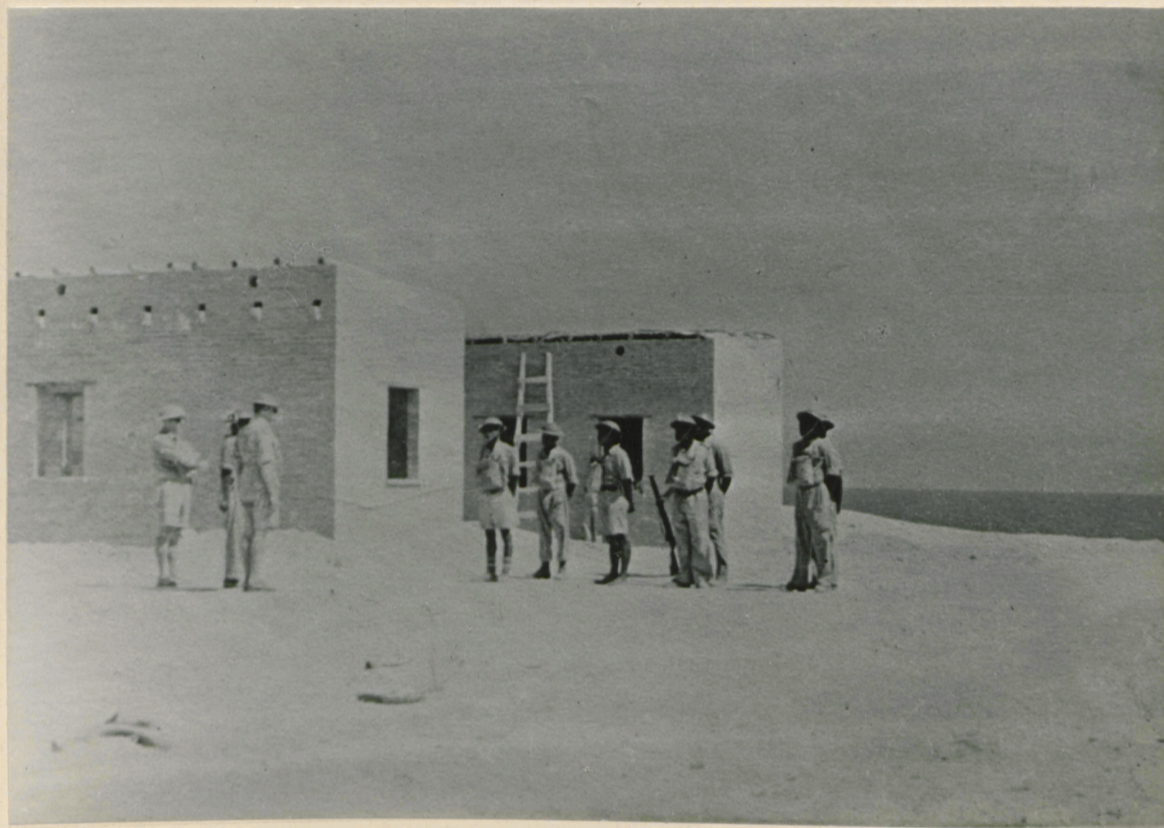


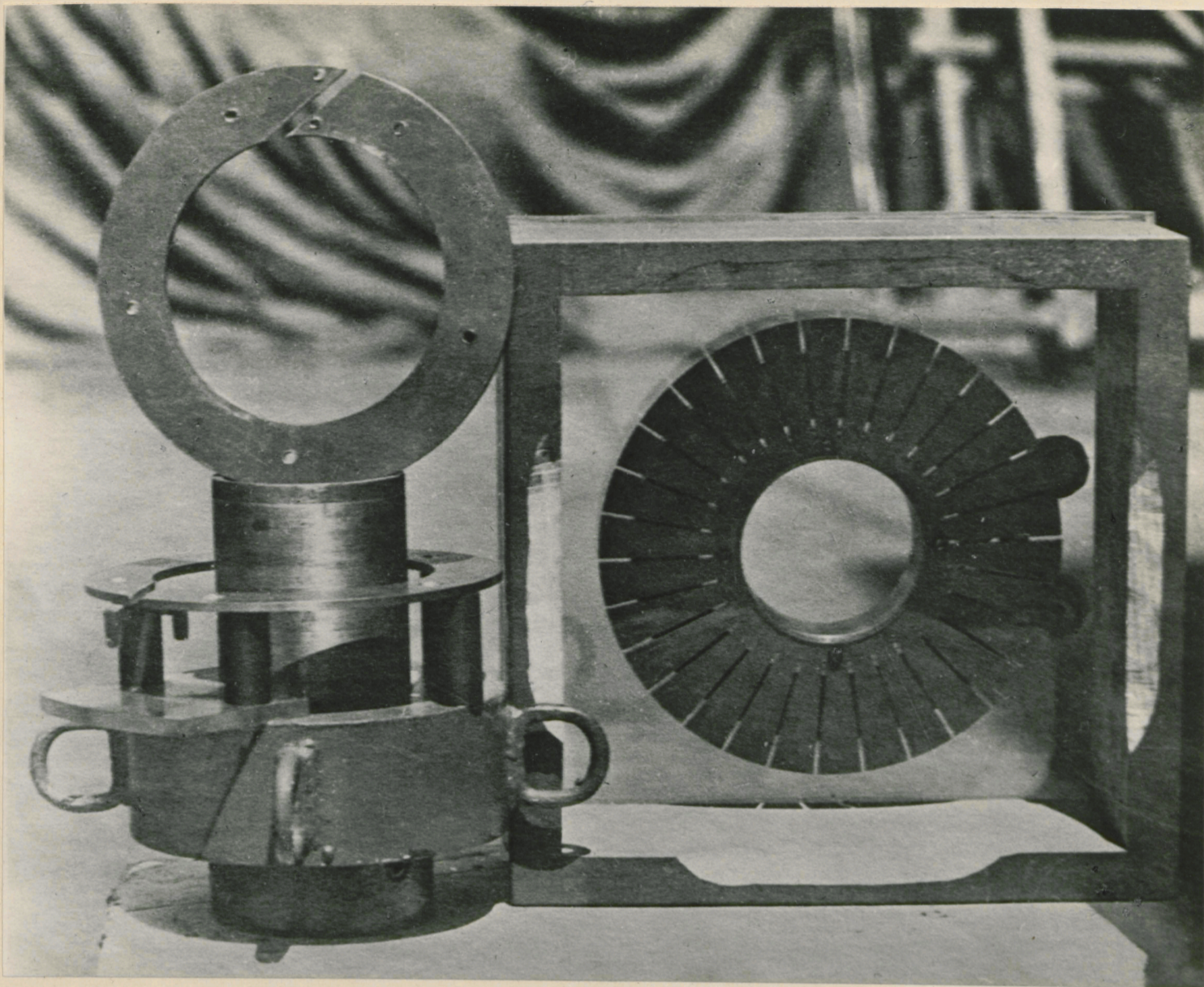
LT. JOUBERT - H.Q. TECHNICAL OFFICER IN THE DESERT.



N. M. C. DEFAULTER.

In the meantime, there was no sign of British radar equipment and the Japanese threat to the South African coast was growing. The S.S.S. in the Union consisted of a small research and training organisation with two mobile stations in operation in Cape Town and Durban, and its main purpose was to supply technical and operational personnel to the field force. A big expansion was called for and a new establishment was drawn up, designed to instal and operate twenty-five coastal radar sets of the J.B. type. These sets were to be effective against aircraft and shipping and an intensive research programme at the Bernard Price Institute resulted in the production of J.B.4. This set, while basically similar to J.B.1 and J.B.3. technically, was greatly improved from the operating and maintenance standards and embodied several new features, about which sketchy information had by now been received from England.

The J.B.4. employed a common aerial for transmitting and receiving, the switching function being performed by a specially designed spark gap. It also made use of a magnetic coupling device which eliminated the bothersome swinging cable to the rotating aerial.



EXPLODED VIEW OF THE ROTATING MAGNETIC COUPLING AND
ELECTROSTATIC SHIELD



ROTATING COUPLING ASSEMBLY ON THE AERIAL POLE.



S/SGT. J. FEJER - CIRCUITRY AND
AIRBORNE RADAR



S/SGT. P. MEERHOLZ - AIRBORNE
RADAR.



LT. F. SIVE - IN CHARGE OF RESEARCH
LABORATORY.

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