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(b) APPARATUS 5 UCO SINGLE CHANNEL NO. 1.

Single channel duplex synchronous equipment using random one-time five unit tape for cypher key. Accepts 31 characters (excluding blank). By using a magnet operated tape reader, facilities for the encryption of all 32 teleprinter characters can be provided. Designed to give traffic flow security but this facility has recently been found to be inadequate and a modification unit is being designed to rectify this deficiency. Equipment is used on long-distance telegraph circuits over radio and wire.

Size: One 6' x 19" double sided rack per duplex terminal. Weight 450 lbs.

Status: In use and in production at rate of six equipments per month.

Existing orders will be completed early in 1954.

Radiation: The equipment is inherently insecure and it must be assumed that security is compromised by radiation.
Remedial measures would involve re-design.

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