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Issue 1 - BT-502354.
March 6, 1922.

METHOD OF OPERATION
MAKE BUSY CIRCUIT
Relay Call Indicator Trunks - Full Mechanical Power Driven System.

GENERAL DESCRIPTION

1. This circuit is used in a mechanical office to make busy and later to make idle a graoup a relay call indicator trunks. When a relay call indicator position in a manual office is not is use or the trunks to that position are out of order, it is necessary to make those particular trunks busy at the district or office selector. Later when the load at the relay call indicator office increases so that the idle position must be used or the trouble is cleared, the busy condition is removed from the trunk.

2. It is necessary to select two numbers to make the trunks either busy or idle, one of these numbers represent the busy condition while the second number determines the group to be made busy. The call is originated by an R.C.I. operator in the manual office and completed by a cordless operator in the mechanical office. A tone is sent back to the R.C.I. operator as an indication that the trunks have been made busy or idle.

DETAILED DESCRIPTION

MAKE BUSY CONDITION

3. When the "Group Number" terminals of the final multiple are selected, the G relay is operated from battery in the final circuit, (not shown). When the "Make Busy Number" terminals of the final multiple are selected, the MB relay is operated from battery in the final circuit (not shown). The operation of both the G and MB relays advance the switch to position 6, 12 or 18 by the operation of the R magnet, depending on whether the switch was in position 1, 7 or 13. With the switch in position 6, 12 or 18 a "make busy" tone is sent back to the R.C.I. operator over lead "GR", also ground is connected through cams D to P inclusive, to the sleeve terminals of the trunks from the district or office multiple making them test busy, thus preventing their selection by the apparatus at the mechanical office. When the final selector returns to normal the G and MB relays release.

MAKE IDLE CONDITION

4. When the "Group Number" and "Make Idle Number", terminals in the final multiple are selected, the G and MI relays operate. The operation of the G and MI relays advances the switch to position 7, 13 or 1. In position 7, 13 or 1, the circuit to ground through cams D to P is opened, thus removing the busy condition on the group of trunks. With the switch in position 7, 13 or 1 a "Make Idle" tone is sent back to the operator over the GR lead.

CIRCUIT REQUIREMENTS

THE READJUST REQUIREMENTS SHOWN BELOW ARE FOR MAINTENANCE USE ONLY.

	OPERATE	NON-OPERATE	RELEASE
E727 (M3 & M1)	Readj. .007 amp. Test .021 amp. W.C.C. .035 amp.		Readj. .0008 amp. Test .0003 amp.
E791 (C)	Readj. .014 amp. Test .025 amp. W.C.C. .035 amp.		Readj. .002 amp. Test .001 amp.

ENG.--CHMcC-HK. CHK'D.--WJT--CWP. APPROVED - C. I. SLUYTER, G.M.L.
3-17-22.