

July 12, 1932.

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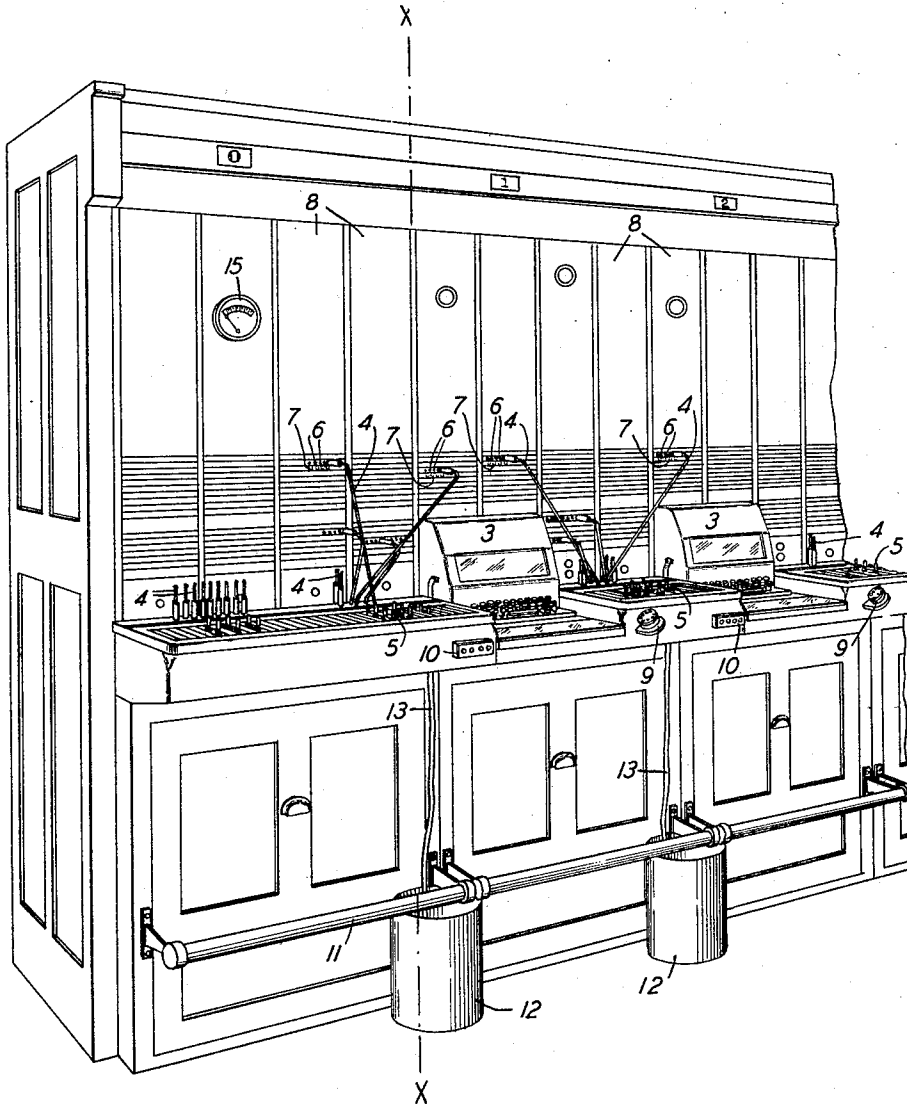
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TELEGRAPH EXCHANGE SWITCHBOARD

Filed Dec. 31, 1930

2 Sheets-Sheet 1

FIG. 1



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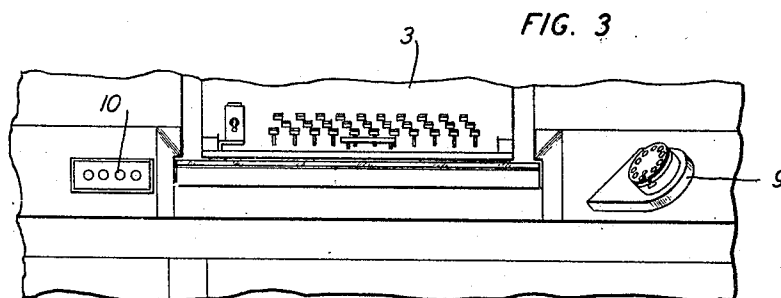
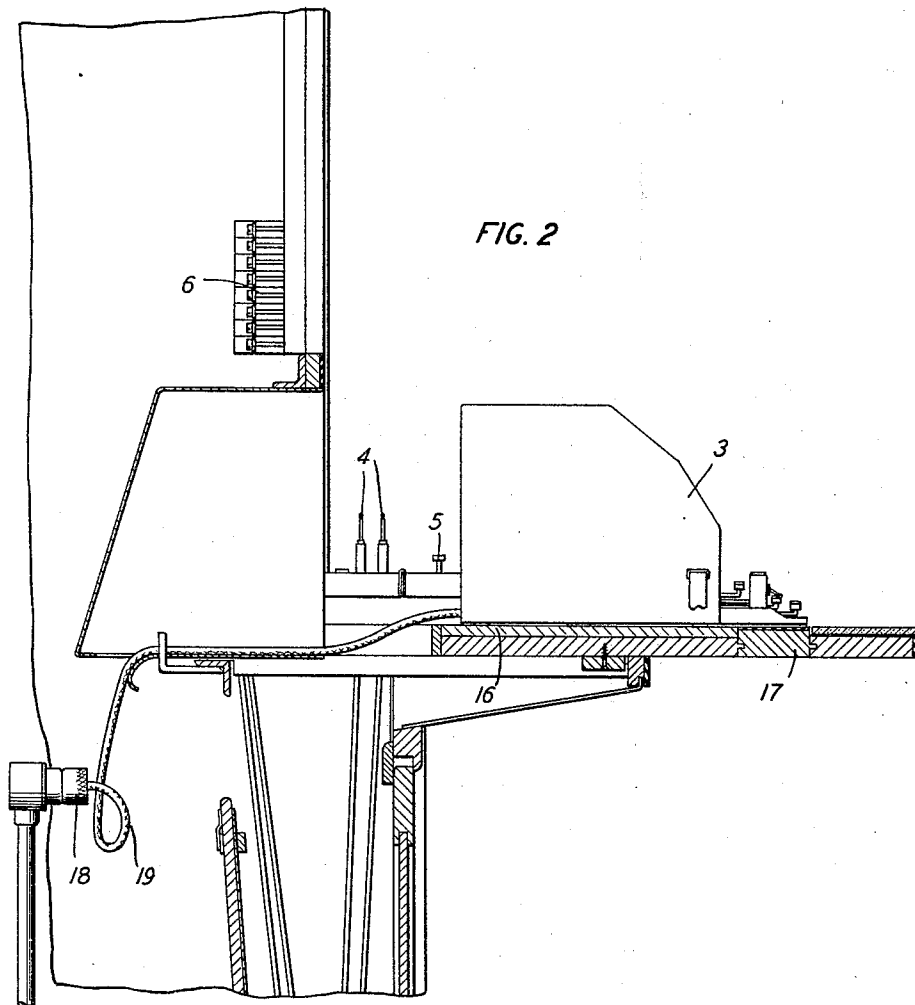
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TELEGRAPH EXCHANGE SWITCHBOARD

Application filed December 31, 1930. Serial No. 505,826.

This invention relates to switchboards for use with telegraph exchange systems of the type which requires an operator at the switchboard to supervise the calls of printer stations connected to the system.

An object of this invention is to provide a switchboard for a telegraph exchange system at which an operator can communicate by printer means with any of a plurality of telegraph printer stations connected thereto in a convenient and efficient manner.

A further object of this invention is to provide means whereby an operator at such a switchboard can obtain information relating to the telegraph system by means of telephonic communication.

A feature of this invention is the detachable plug arrangement for the switchboard printer set. This arrangement permits an operator's printer set to be easily replaced in case of trouble to the printer equipment.

Other features are the gliding rails for supporting the operator's printer set. These rails enable the attendant at the switchboard to adjust the position of the printer equipment.

In accordance with this invention a printing telegraph switchboard is produced which is as convenient and effective as those used for telephone exchange systems. A removable printer set, adapted for movement in one direction only, is mounted in the switchboard for communicating with printer stations connected to the board. On both sides of the printer set are shelves on which the cords and keys of the switchboard may be arranged. To the rear and slightly above the printer set and key shelves are terminating jacks for telegraph circuits connected to the switchboard. An operator's telephone set and associated equipment is also provided for making a call over the telephone system. This apparatus provides the switchboard operator with means for obtaining information relating to the telegraph system. This is desirable so that the operator may be informed whenever interconnecting telegraph circuits or printer stations located at distant points are in trouble.

Referring to the drawings,

Fig. 1 shows, in perspective, several positions of a telegraph exchange switchboard constructed in accordance with this invention;

Fig. 2 shows a cross-section of the switchboard of Fig. 1 along the plane X—X with the printer machine withdrawn from its normal position; and

Fig. 3 illustrates in detail the front equipment provided for making a call over the telephone system.

In Fig. 1 are shown positions 1 and 2 of a telegraph switchboard at which operators may be seated for supervising calls of printer stations connected to the switchboard. Each operator may be provided with a chair or stool (not shown) which may be located in front of the printer machines 3. Cords 4 and keys 5 are provided for connecting the printer machines with the subscribers' printer stations over telegraph line circuits which are connected to terminal jacks 6. These jacks are supported in vertical panels 8. Associated with each subscriber's line jack 6 is a signal lamp 7 for indicating visually that a printer station wishes to communicate with the operator. It is to be understood, of course, that other jacks may be provided which connect with telegraph line circuits leading to distant switchboards.

Telephone dials 9 and telephone jacks 10 are utilized in the event the operator wishes to make a call over the telephone system. To make such call, the operator need only insert the plug of her telephone handset (not shown) into jack 10 which, in turn, is wired to a telephone circuit. The operator may then dial the desired telephone number. If desired the telephone handset may be permanently wired into the position and a key provided for connecting the handset to the telephone circuit.

At each position and underneath the footrest 11 is a basket 12 into which the loose tape 13 from the printer machine 3 may fall.

Cords 4 located at position 0 connect with special circuits for testing lines in trouble. At this position a meter 15 may be provided for indicating the circuit condition of the line in trouble. Other features, such as a

time clock for the operator, ringing keys for ringing over the cords, and additional supervisory lamps may be conveniently arranged on the switchboard, if desired.

5 In Fig. 2 printer machine 3 is shown withdrawn from the panel equipment. Two sliding rails 16, one on each side of the machine 3, support the printer and permit its movement in one direction. This arrangement
10 allows adjustment of the position of the printer and provides easy access for maintenance purposes. The printer machine 3 can be moved toward the operator for a short distance only, further motion being prevented
15 by contact of the front margin of rails 16 with stop bar 17. Detachable plug 18 connected to flexible printer cable 19 allows convenient detachment of the printer from the switchboard in case of trouble to the printer
20 equipment.

It is to be understood, of course, that this invention is not limited to the specific embodiment shown herein, but that numerous modifications may be made without departing
25 from the scope of this invention.

What is claimed is:

1. A telegraph exchange switchboard apparatus comprising a vertical panel, jacks in said panel to serve as terminations of associated telegraph subscribers' circuits, horizontal key shelves and cord shelves projecting forwardly from said panel and having keys and cords respectively mounted therein for associating a local printer apparatus at the operator's position with a subscriber's circuit terminating at said switchboard and for interconnecting the circuit of a calling subscriber with the circuit of a called subscriber; said horizontal shelves being discontinuous at operators' positions and telegraph printer apparatus detachably mounted in the spaces provided by said discontinuities to enable an operator upon an incoming call to ascertain the subscriber who is wanted and to perform
45 the necessary supervision incidental to connecting the circuits of the calling and called subscribers.

2. A switchboard as set forth in claim 1 including guide rails extending forwardly from the vertical panel in each of said spaces to support the telegraph printer apparatus in such manner as to permit it to be easily moved away from or toward the operator.

3. A switchboard as set forth in claim 1 including horizontal guide rails in each of said spaces to permit telegraph printer apparatus mounted thereon to be easily moved in a direction away from or toward the operator and an adjacent recess in said vertical panel aligned with the space in which the telegraph printer is mounted to permit the printer to be moved back into said recess.

4. A switchboard as set forth in claim 1 having a recess in said vertical panel opposite the space formed by said discontinuity

whereby telegraph printer apparatus mounted in said space may extend partly back of said vertical panel, guide rails in said space supporting said telegraph printer apparatus to permit it to be readily moved toward the operator for inspection or replacement and a stop bar at the forward end of said guide rails to limit the forward movement thereon of said telegraph printer apparatus.

In witness whereof, I hereunto subscribe my name this 29th day of December, 1930.

EDWARD M. SMITH.

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