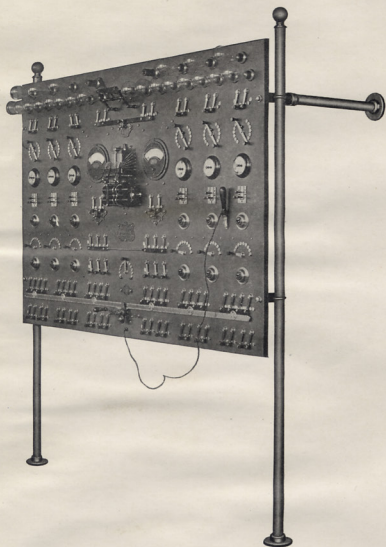


# GAMEWELL MUNICIPAL Fire Alarm Equipment



**GAMEWELL FIRE ALARM TELEGRAPH CO.**  
General Offices and Factory  
Newton Upper Falls, Mass.

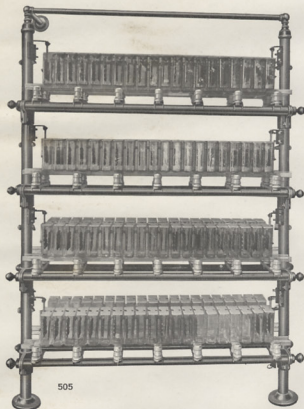
# The Gamewell Company



Switchboard to be 12 circuits

SIX-CIRCUIT AUTOMATIC STORAGE BATTERY AND REPEATER SWITCHBOARD  
Mounted on Iron Pipe Frame

## The Gamewell Company



METAL BATTERY RACK

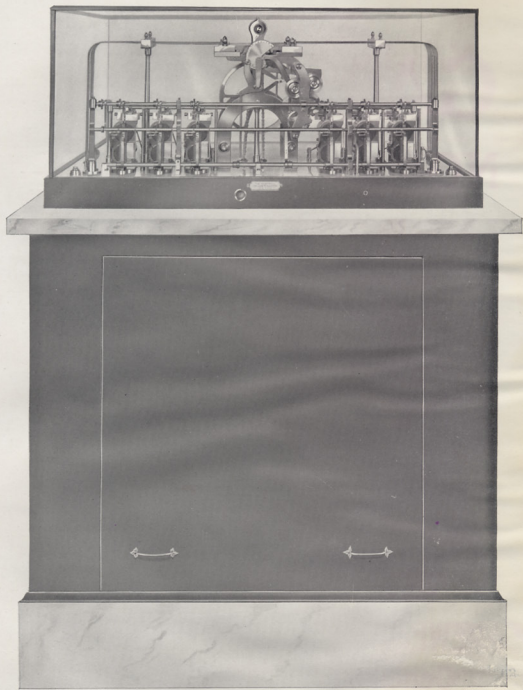
# GAMEWELL F.I.P. BATTERY

WITH

# 15 Improvements

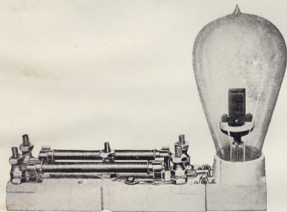






Repeater to be eqipped for 10 Box and 4 gong circuits  
SIX CIRCUIT AUTOMATIC REPEATER WITH FOUR ALARM CIRCUITS  
Mounted on an Art Metal Pedestal  
with Peerless Clear Vision Case

## VAC-M ARRESTER



TYPE NO. 17  
A COMBINATION FUSE MOUNT  
AND TERMINAL BLOCK

There shall be -12- arresters, each arranged to protect both sides of a line.

Each arrester shall consist of a glass bulb mounted upon a porcelain block with proper terminals, with three electrodes to be mounted inside the bulb, one to be connected to each side of the line and one to ground, and the space within the bulb to be evacuated to a degree which will allow discharge to take place between either of the line electrodes and the ground electrode with a potential difference of not less than 250 volts and not more than 600 volts, D.C. The lead-in wires shall have the same thermal co-efficient of expansion as glass, in order that the glass will not be broken or become unduly strained with difference of temperature. The electrodes shall be of ample size and properly spaced, so that successive discharges will not cause particles to be lodged between either of the line electrodes and the ground electrode so as to form a ground upon a line or a short circuit. The arrester shall be so designed as to be able to stand repeated static discharges or to blow a 3-ampere fuse in series with it without having the discharge voltage increased above 600 volts, D.C.

This type of arrester is designed to prevent accumulation of static charges upon the line of a potential greater than 600 volts, so as to eliminate the possibility of breakdown of the insulation of the lines due to the discharge which would take place if such static charges were allowed to accumulate to a potential high enough to break through the insulation of the line. Each arrester shall be provided with two 2000-volt, 3-ampere fuses, to be connected in series between the arrester and the line, in order that these fuses may blow and prevent the arrester from being damaged, or prevent excessive current being maintained over the line in cases of a cross between the line and a high tension line or other source which would cause excessive current to be maintained between the line and ground.

**Terminal Block:** Made of porcelain with standard R.S.A. square head binding posts washers, plain and beveled nuts all of brass, fitted with phosphor bronze clips to hold removable unit and form electrical contacts. Provided with projections to prevent shifting of the cartridge unit. These are suitably connected with binding posts.

The arrester can be placed ahead of the fuses, or vice versa. Dimensions of fuse block without arrester unit,  $6\frac{1}{4}$  in. long,  $2\frac{1}{4}$  in. high,  $2\frac{1}{4}$  in. wide.

**THE GAMEWELL COMPANY**  
NEWTON UPPER FALLS, MASS.

# PEERLESS

## PORCELAIN STEEL BOX

---

WITH

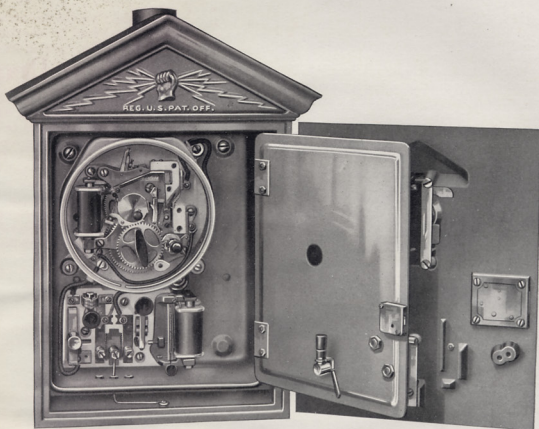
---

## QUICK ACTION DOOR



**THE GAMEWELL FIRE ALARM TELEGRAPH CO.**

General Offices and Factory  
Newton Upper Falls, Mass.



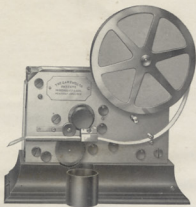
## SALES SPECIFICATIONS

### OPERATION:

This shall be a non-interfering, successive fire alarm box capable of sending (two rounds) (four rounds) of its number. If another box has control of the circuit when this box is operated, it shall not interfere with the signal of the other box or boxes. After the first box has completed its signal and the circuit is free, this box shall then take control of the circuit and send in its signal. It shall be capable of running fifteen rounds after one operation of the starting lever. The box shall be spring-operated, and have a capacity of thirty-six rounds when fully wound. It shall be provided with a stop wheel to prevent

over-winding. It shall be arranged to start signaling at the beginning of any round that the circuit is free. The mechanism shall stop and restore the box to normal condition when the complete signal has been transmitted. When the non-interfering magnet is retracted to prevent interference, it shall go out of its magnet field to such an extent that it will not be returned by 300 milli-amperes of current. When it is in its magnet field a minimum current of 60 milli-amperes and a low resistance magnet shall be sufficient to cause it to function properly. The signaling contacts shall be of hard-drawn silver, so arranged that dust and dirt shall be excluded when the contacts are in normally closed position.





## IDEAL PUNCH REGISTER

**T**HIS register provides a permanent visual record of any signals which may pass over a fire alarm circuit by punching holes one-eighth inch in diameter in a paper tape. The tape, one-half inch wide, runs outside of the instrument to prevent paper fuzz from getting into the operating mechanism. A removable cup is provided to catch all punchings.

The register is usually mounted on a shelf, and continuity springs are provided so that the register may be removed without the necessity for disconnecting wires. If the register is to be mounted

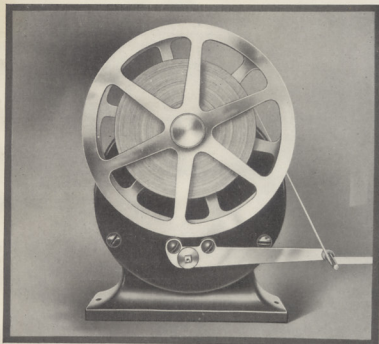
on slate or marble a different size of continuity spring will be provided.

The base and cup for clippings are black lacquered. The side plates are of Excelsior bronze with bevelled plate glass in the top and ends. This glass is removable to permit ready inspection and easy access. These registers are used not only in fire headquarters and apparatus houses but also in industrial concerns and the offices of the waterworks, electric, gas and street railroad companies.

**The Gamewell Company**  
**NEWTON UPPER FALLS, MASS.**

# PEERLESS TAKE-UP REEL

*A new reel with distinct improvements*



**T**HIS NEW TAKE-UP REEL has four advantages over the ordinary older style reel. Regardless of the size of the roll of paper the reel maintains a uniform speed, keeping the paper taut at all times. Less winding is necessary, as two windings will do the work that required six or eight windings on the older reels. The train work is completely enclosed in a dustproof case, protecting the mechanism and insuring longer service. A special device has been provided so that the reel will be automatically stopped if the paper breaks. Arrangements are made so that the paper can be pulled backwards to inspect previous signals. Winding the reel while it is in service will not interfere in the slightest with its operation. The reel will take any width paper from  $\frac{1}{2}$  inch to 2 inch.

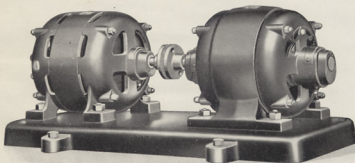
The paper wheel and the brake arm are of composition bronze and highly finished. The train work is enclosed in an attractive black lacquered cast-iron case. This new reel is a distinct advance over all previous reels, and is guaranteed to give most satisfactory service.

## GAMWELL FIRE ALARM TELEGRAPH CO.

**General Offices and Factory  
Newton Upper Falls, Mass.**



## The Gamewell Company



### MOTOR GENERATOR SETS

Single, Two or Three Phase  
125 Watts to 750 Watts