

(No Model.)

J. E. RICHARDS.

STATION BOX FOR WATCHMEN'S ELECTRIC TIME DETECTORS.

No. 432,645.

Patented July 22, 1890.

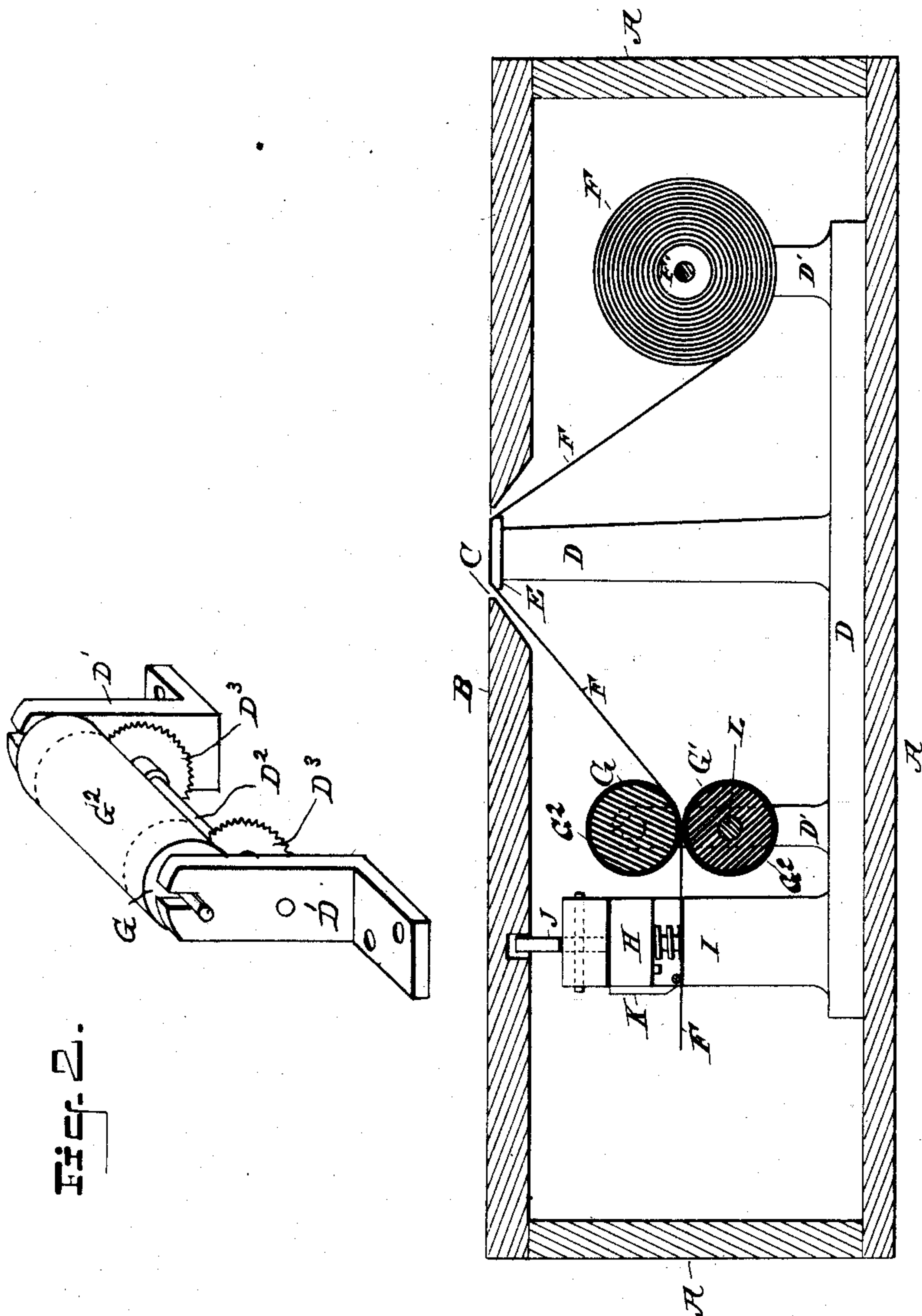


Fig. 2.

Fig. 1.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES EDGAR RICHARDS, OF CEDAR KEYS, FLORIDA.

STATION-BOX FOR WATCHMEN'S ELECTRIC TIME-DETECTORS.

SPECIFICATION forming part of Letters Patent No. 432,645, dated July 22, 1890.

Application filed September 10, 1889. Serial No. 323,509. (No model.)

To all whom it may concern:

Be it known that I, JAMES EDGAR RICHARDS, a citizen of the United States, and a resident of Cedar Keys, in the county of Levy and State of Florida, have invented certain new and useful Improvements in Station-Boxes for Watchmen's Electric Time - Detectors, of which the following is a specification.

My invention relates to an improvement on an invention in station-boxes for watchmen's electrical time-detectors, such as are patented to me by United States Letters Patent, dated August 27, 1889, and numbered 409,755; and it consists in the construction and arrangement of the parts hereinafter set forth and shown in the drawings, wherein the table on which the watchman writes his name is a rigid plate substantially flush with the outside of the cover of the station-box, and the winding-off devices are two rollers covered with rubber or otherwise adapted to grip the paper between them, and by their revolution pull it off from the reel of paper. By this construction the operation of the device is rendered much more simple, sure, and economical in power, and the watchman has a flat and stable surface to write upon instead of the rounding and somewhat unstable one described in my former patent.

Figure 1 of the drawings illustrates a longitudinal vertical section through the medial line of the paper-holding reel, writing-tablet, feed-rollers, and severing device. Fig. 2 illustrates an alternative construction of the feed-rollers.

A is the box of the station-box.

B is the cover.

C is a slot in the cover undercut or beveled off toward the slot, as shown, so that the wood or other material of the cover will not interfere with the paper as it passes over the rigid plate.

F' is the paper-reel supporting the paper F.

E is the rigid tablet or plate. It is supported on pillars or their equivalent D in such manner as to be opposite the slot C in the cover when the cover is closed.

G and G' are rollers supported on standards D' or otherwise, as preferred. They are pressed toward each other by springs, (not shown,) one at each end of their shafts or by other equivalent devices, and are adapted to receive the paper between them. The arbor of the

clock mechanism engages with the shaft L of one or the other of these rollers G or G', as preferred, either by suitable gearing, or the shaft of the roller may itself be an extension of the arbor.

I do not show the clock-work herein, since it is fully set forth and explained in said prior patent, and I refer to it for an explanation of the construction and operation of the same in connection with the paper-operating mechanism shown herein.

The rollers G and G' may be covered with rubber or have rubber bands G² G³ around them, whereby they will take more of a grip upon the paper to feed it; but any other means may be employed for this purpose, or the rollers may be used under many circumstances by themselves without special means to grip the paper.

K is the knife or other severing device, and the stamping attachment, which is fully explained in my said former patent, is shown at H I, J being the lever whereby the stamp and the knife are operated.

In Fig. 2 I show an alternative form of the paper-feeding rolls. D' D' are the standards for the rolls; but the lower roll, instead of being a cylinder, consists in a little shaft D², upon which are two toothed wheels D³ D³, the teeth on which cut into the paper and bind it when it passes between the upper roller and the little wheels. This is a very good feeding device.

I do not limit myself to the details of construction shown and described, because they may be somewhat departed from and still my invention be employed.

I claim—

The combination of a box provided with a cover having a slot therein, a rotatable reel for containing paper, a stationary flat tablet located adjacent to the slot in the cover when it is closed, rotatable paper-feeding rollers, and a paper-severing device in rear of the paper-feeding rolls, substantially as set forth.

Signed at Cedar Keys, in the county of Levy and State of Florida, this 27th day of August, A. D. 1889.

JAMES EDGAR RICHARDS.

Witnesses:

J. B. LUTTERLOH,

E. J. LUTTERLOH.