

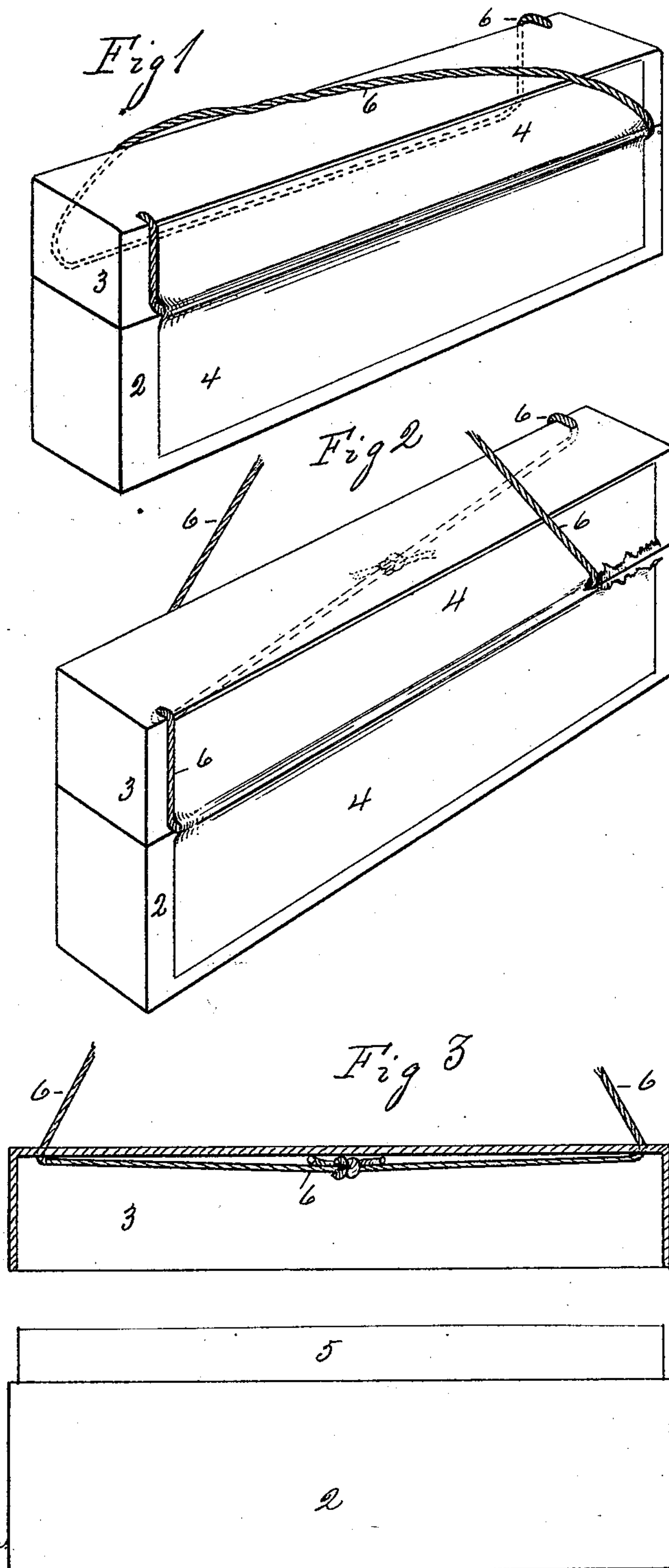
(No Model.)

J. C. INGERSOLL.

DEVICE FOR DETACHING BOX COVERS.

No. 350,369.

Patented Oct. 5, 1886.



UNITED STATES PATENT OFFICE.

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DEVICE FOR DETACHING BOX-COVERS.

SPECIFICATION forming part of Letters Patent No. 350,369, dated October 5, 1886.

Application filed May 21, 1886. Serial No. 203,053. (No model.)

To all whom it may concern:

Be it known that I, JAMES C. INGERSOLL, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Devices for Detaching Box-Covers, of which the following is a specification.

This invention relates to improved means for detaching covers from boxes of paper and similar material when such covers are secured to the body of the box by a strip or strips of paper or of thin textile material cemented against the side or sides of the box and covering the joint between the body and cover thereof, thereby securing the latter to the former; and the invention consists in the peculiar arrangement of the cover-detaching device and the manner of connecting the same to the cover of the box, as hereinafter fully described, and set forth in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view of a box and cover provided with a cover-detaching device constructed according to my invention. Fig. 2 is also a perspective view of said box and cover-detaching device, illustrating the action of the latter in severing the connection between the body and the cover of the box. Fig. 3 is a side elevation of the box, showing the cover thereof in longitudinal section and that portion of the detaching device within the cover.

In the drawings, 2 indicates the body of the box; 5, the neck thereof, over which the cover shuts; and 3, the cover. The box herein represented is of the form of an ordinary paper box, such as is commonly used for packing cartridges therein and for other purposes; but when used for cartridges it is made preferably with the neck 5 therein, over which the cover shuts, and whereby the adjoining edges of the box and cover are brought against each other, as shown in Figs. 1 and 2, thereby bringing the sides of the box and cover to the same plane, and better adapting them to have the piece 4, of paper or thin cloth, cemented against the side of the box and cover, as shown, whereby the latter is secured to the box, so that when the latter is filled with cartridges or other articles the cover will not be accidentally thrown off from the box, allowing the contents of the latter to be spilled. The said piece 4 is in prac-

tice cemented on each side of the box and cover in the position shown, the drawings showing said piece only on one side.

When the above-described boxes are used for holding cartridges, it becomes desirable under many circumstances—as, for instance, when the cartridges are being used for firing machine-guns rapidly—that convenient means be provided for quickly severing the connecting-pieces 4 on each side of the box on the line between the body and cover thereof, so that the latter can be quickly and surely removed from the box without disturbing the contents thereof; and to this end the cord 6 is attached to the cover 3 of the box by passing its ends through said cover, near each end of the latter, and uniting them within the cover, as shown in Fig. 3, or otherwise securing the ends of the cord to the cover, near each end of the latter, in any suitable manner, thus forming a loop thereover, so that the cover will, by an equal force applied to each end thereof, be lifted squarely off from the box when the cord 6 is grasped for that purpose, as hereinafter described.

After the box has been filled with cartridges or other articles the cover is placed thereon, and the cord 3 is drawn from the top of the cover down to the line between the latter and the body of the box, as shown in Fig. 1, and on said line nearly to the opposite end of the box, and the connecting-piece 4 is then cemented onto the box and cover and over said cord, thereby securing the latter in the position shown, said cord being secured in the position relative to said connecting-piece and the meeting line of the cover and box on both sides of the latter, as indicated in dotted lines in Fig. 1, the cord passing diagonally over the cover of the box, from one end to the other of the latter, and that portion of the cord lying on the top of the cover is left sufficiently slack to permit of grasping it by the fingers.

To remove the cover from the box, that part of the cord extending diagonally across the cover is grasped and suddenly pulled in a direction away from the latter, causing the cord to be drawn against the edges of the connecting-piece 4 with equal force on both sides of the box, and said connecting-piece to be torn on the line between the box and the cover, as shown in Fig. 2, and when said piece is torn

from end to end, as it will be by the action of said cord, the latter will be drawn directly against the cover itself, and as it has its connection with the latter at each end thereof and
5 near its opposite edges, the cover will thereby be drawn squarely off from the box without disturbing the contents thereof.

The above-described manner of connecting the severing-cord 6 with the cover of the box
10 obviates the inconvenience pertaining to the attachment of a severing-cord at one end of the cover, as heretofore practiced, for when the cover of a cartridge-box has the cord attached thereto in the last-named manner, and
15 when the box of cartridges is being rapidly manipulated the end of the cover which is last drawn off from the box is frequently pulled with such force against the adjoining heads of the cartridges therein as to draw some of the
20 latter out of the box, whereas when the cover is lifted squarely off from the box it cannot become engaged with and disturb the position of any of the cartridges it may contain.

What I claim as my invention is—

25 1. As means for severing the connecting-strip

which temporarily secures the cover of a box to the latter, and for lifting the cover from the box, a cord attached to said cover and having a direct connection with the latter, near each
end thereof, forming a loop between the ends 30 of the cover, portions of which loop are cemented under said connecting-strip on each side of the box, the central portion thereof passing diagonally over said cover, substantially as set forth.

2. As means for severing the connecting-strip 35 which temporarily secures the cover of a box to the latter, and for lifting the cover from the box, a cord attached to said cover and having a direct connection with the latter, near each
end and near the opposite edges thereof, forming a loop between the ends of the cover, portions of which loop are cemented under said
connecting-strip on each side of the box, the
central portion thereof passing diagonally over 45 said cover, substantially as set forth.

JAMES C. INGERSOLL.

Witnesses:

WM. H. CHAPIN,

G. M. CHAMBERLAIN.