

(No Model.)

H. WIXON & G. MENARD.

BOX PULLING ATTACHMENT.

No. 322,031.

Patented July 14, 1885.

Fig. 1.

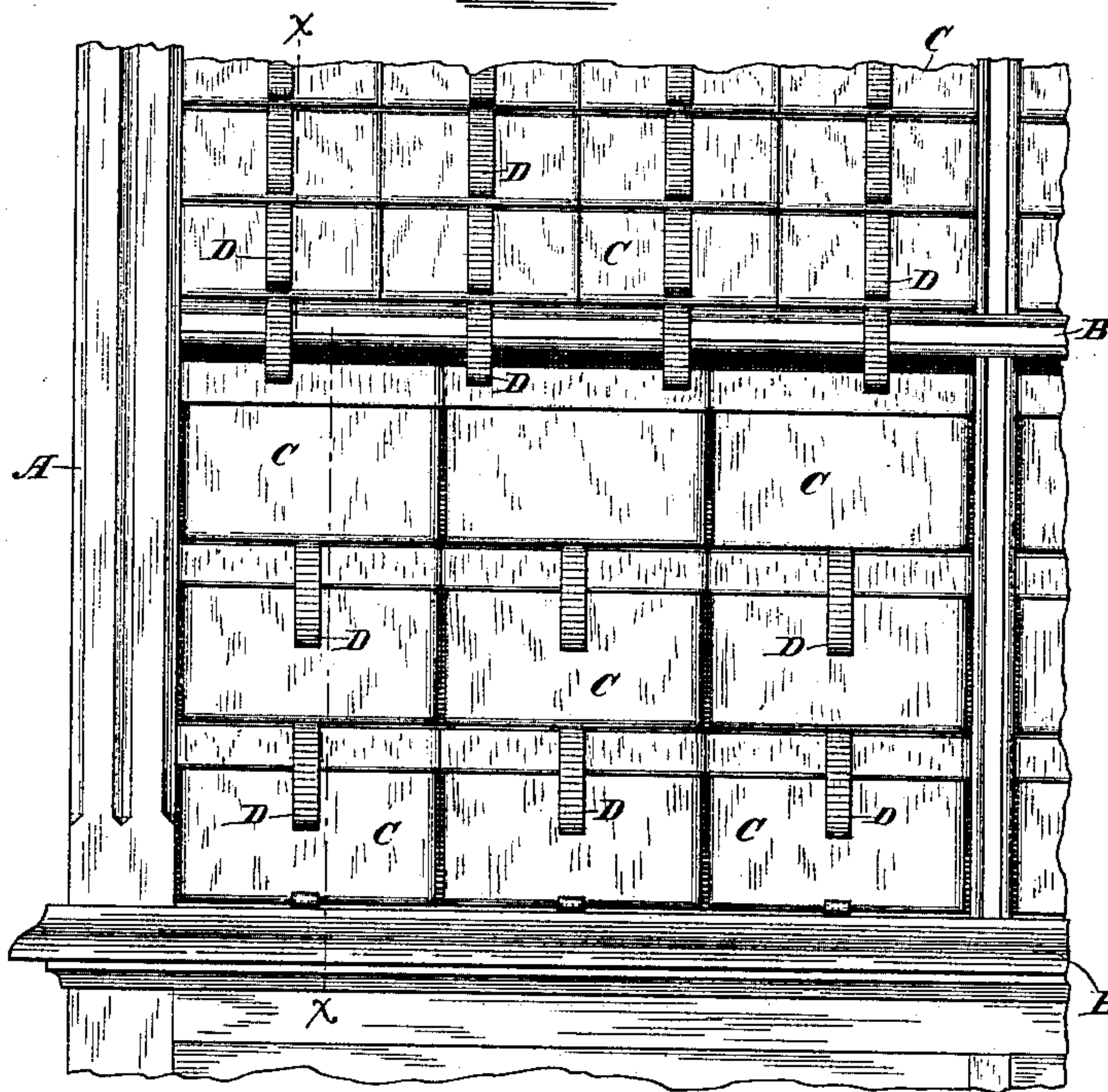


Fig. 2.

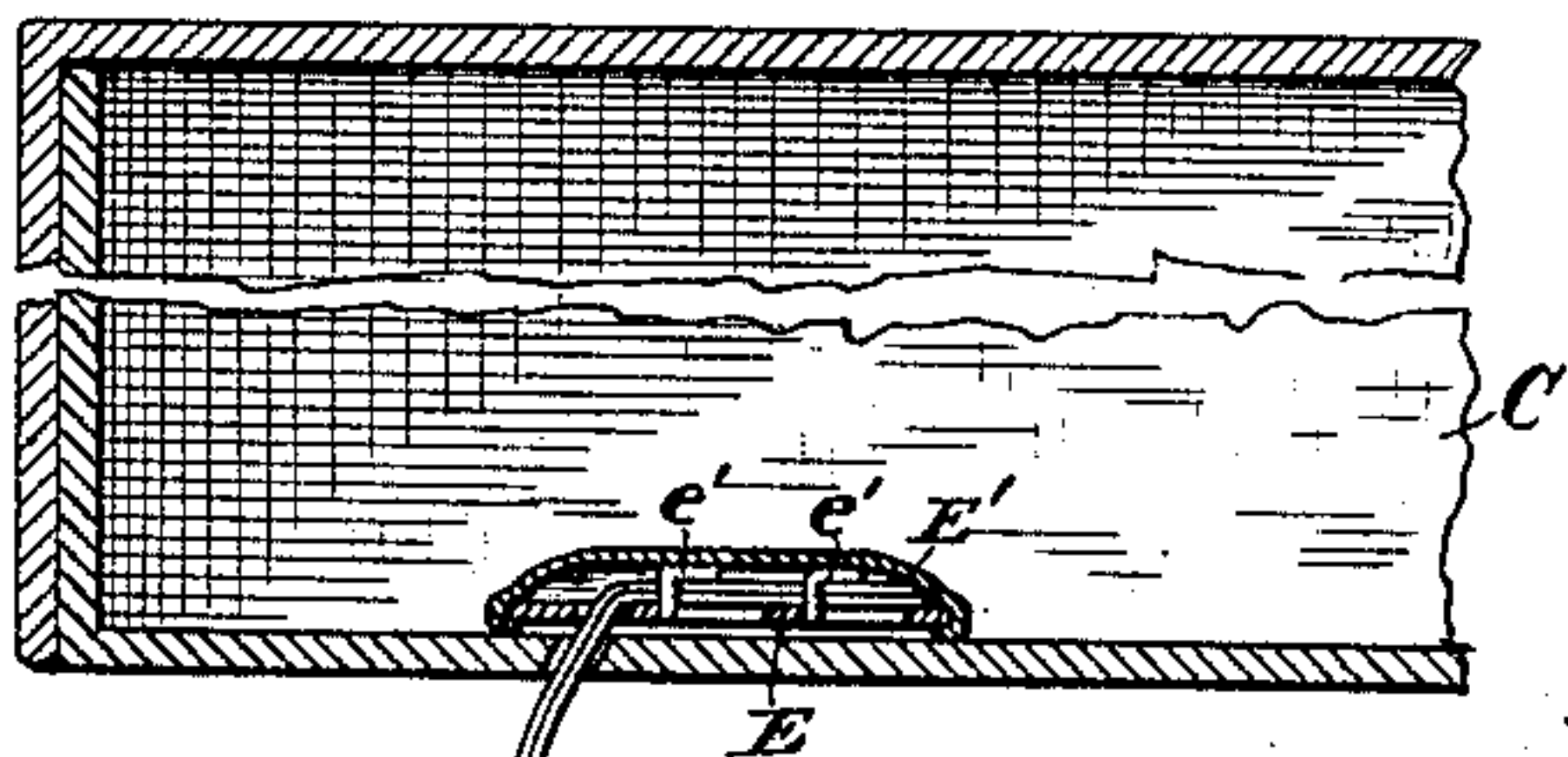
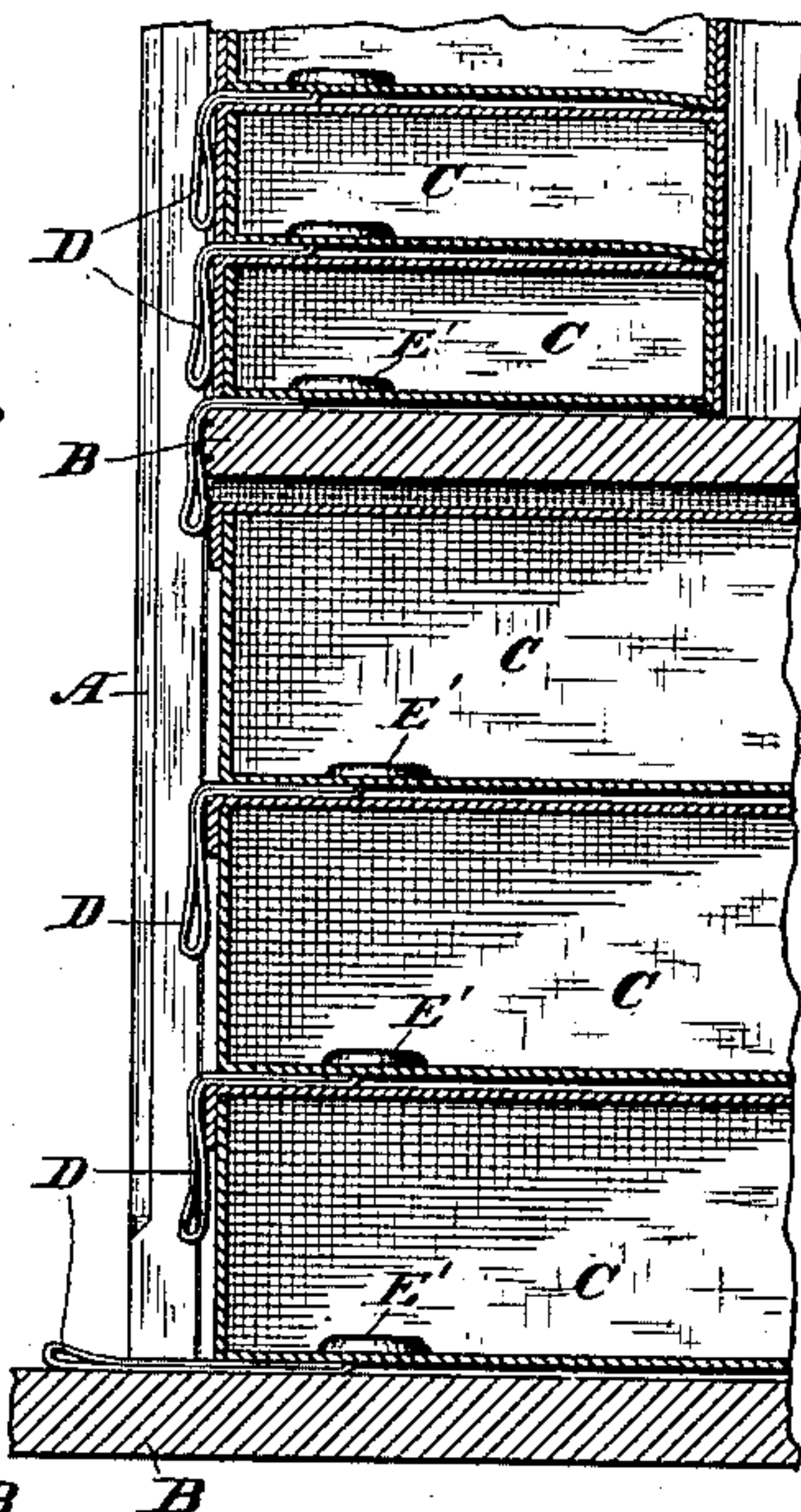


Fig. 3.

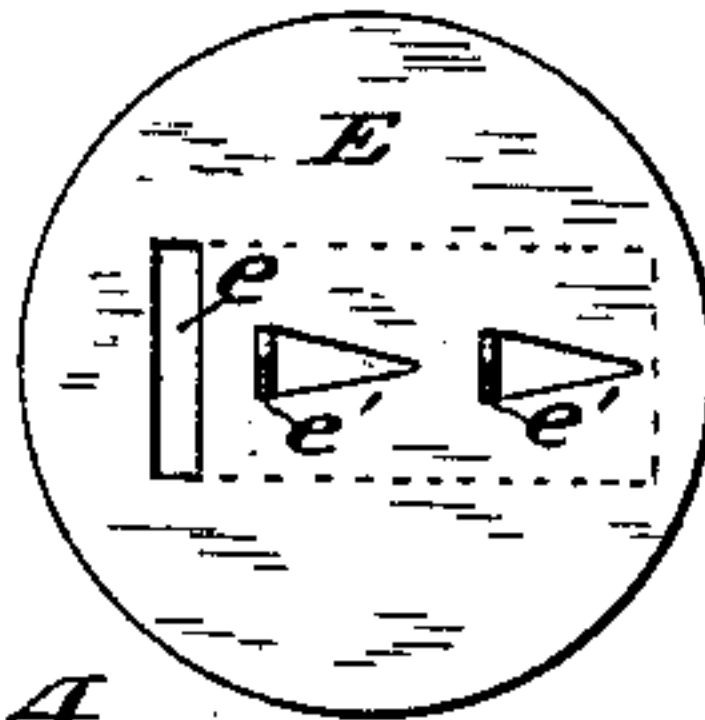


Fig. 4.

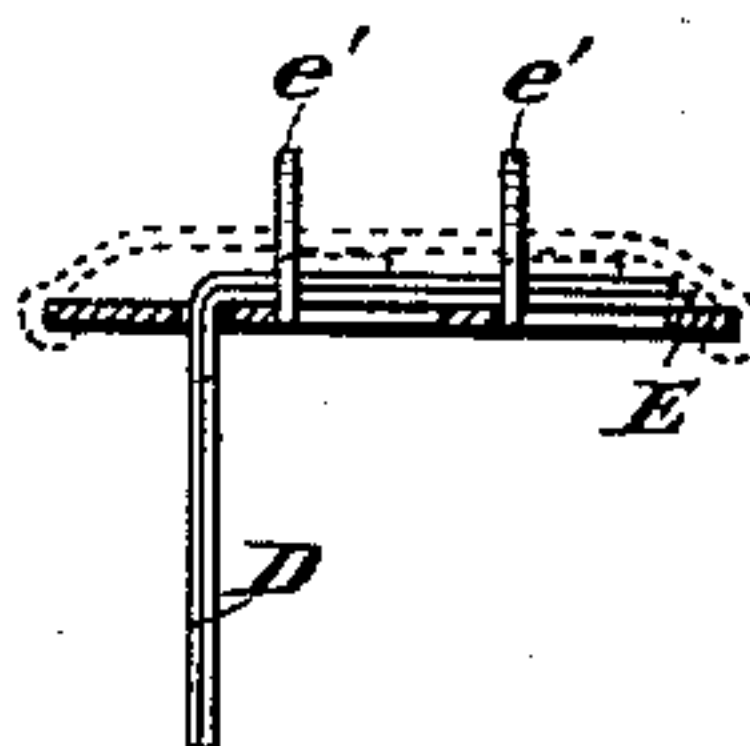


Fig. 5.

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UNITED STATES PATENT OFFICE.

HOWARD WIXON AND GEORGE MENARD, OF CHICAGO, ILLINOIS.

BOX-PULLING ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 322,031, dated July 14, 1885.

Application filed August 11, 1884. (No model.)

To all whom it may concern:

Be it known that we, HOWARD WIXON and GEORGE MENARD, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Box-Pulling Attachments, of which the following is a description, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation of shelving upon which are arranged pasteboard boxes having my improved attachment applied thereto. Fig. 2 is a transverse vertical sectional view of the same, taken on the line *xx*, Fig. 1. Fig. 3 is a central vertical sectional view of a part of a box, showing the manner of applying said attachment thereto, together with the construction of the latter. Fig. 4 is a plan view of the bottom plate as first stamped and in condition to receive the tape; and Fig. 5 is a transverse sectional view thereof with the tape attached, the covering-plate being indicated in dotted lines.

Like letters of reference indicate like parts in the different figures.

Great inconvenience and annoyance have heretofore been occasioned in dry-goods and other stores where paper and pasteboard boxes are used, resulting from the destruction of the same in withdrawing them from the shelves. The flanges of the lids and the ends of the boxes are torn out at the corners and otherwise broken and defaced, while the labels, if any thereon, are obliterated and destroyed as a result of having no satisfactory means of removing them than taking hold of the boxes themselves, by which they are soon soiled or broken, thus necessitating the covering or repairing thereof or the purchase of new ones.

The object of our invention is to overcome these difficulties and to provide a cheap and simple box-pulling attachment which may be readily attached to and detached from shelf-boxes in use in dry-goods, shoe, and other stores, thus saving the great expense and annoyance which have been caused to merchants for want of such an appliance. We accomplish said object by means of a short length of tape, twine, leather, or other suitable material, preferably arranged in the form of a loop, the ends of which are secured in any well-

known manner to a plate of sheet metal, preferably in the form of a disk, and preferably covered by another disk or plate of like material, when the loop or tape is inserted downwardly through a slit or hole in the bottom of said box, and near the end, the disk lying flatly upon the bottom of the box, and thus preventing the tape from being wholly drawn through, while the loop overhangs the shelf and forms a pull by which the box may be readily withdrawn without injury to or strain upon its weaker parts, all of which will be hereinafter more fully described, and definitely pointed out in the claims.

In the drawings, A represents the usual frame or case, provided with shelves B for the reception of the pasteboard boxes C. It is obvious that where said boxes are arranged closely side by side and upon each other, as shown, one cannot be grasped and removed except with considerable difficulty, aside from the injury thereto. With our attachment applied, as hereinafter shown, this may be wholly overcome.

D in the respective figures represents a tape or web, of proportionate strength to the size of the box, which is formed into a loop and the ends firmly secured to a disk, preferably of sheet metal, though it may be formed of stiff pasteboard or other similar material, the tape being glued thereto.

E, Figs. 3, 4, and 5, represents a metal disk, into which is formed a slot, *e*, while portions of the metal are partially cut out and forced upward, forming sharp-pointed projections *e' e'*. The doubled ends of the tape D are then drawn upwardly through the slot *e*, when the points *e' e'* are pressed through them, as shown in Fig. 5, after which they are bent downwardly, as shown in Fig. 3 and indicated in dotted lines in Fig. 5. The whole is then preferably covered by a plate, *E'*, Fig. 3, of thin metal of sufficient diameter to form a flange, which may be crimped over the disk E in any well-known manner, as clearly shown in said last-named figure, thus giving a smooth surface to the top and completing the attachment. Said attachment is then applied to the box by cutting a slit through the bottom of the latter as near the middle as may be, meas-

uring from side to side, and sufficiently near the front end to permit the tape to project outwardly from the front in order to be easily grasped. The looped end of the tape is then
5 drawn downwardly through the slit, as shown in Figs. 2 and 3, while the disk remains in the bottom of the box. It is obvious that said box may then be withdrawn without injury thereto, the entire strain being a tensional
10 strain upon the bottom of the box, while at the same time said bottom is supported by the shelf or other object upon which it rests.

It is manifest that said attachment may be readily removed from old boxes when dis-
15 carded and applied to new ones.

We do not confine ourselves to the exact manner shown of securing the tape, as it is obvious that the metal may be crimped or bent in various well-known ways; nor do we
20 confine ourselves to the use of the metal disks, as various other materials may be used with satisfactory results.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

25 1. The combination, with a shelf-box, of the tape or cord D and plate E, attached to the bottom of the box and near one end thereof, whereby in using the same as a pull to remove said box from the shelf a longitudinal strain
30 may be exerted upon said bottom, substantially as described.

2. As a new article of manufacture, a box provided with a tape or cord, D, and plate E, the latter being upon the bottom and within
35 the box, and said tape protruding from beneath and being of sufficient length to extend beyond the edge of the box, substantially in the manner and for the purpose set forth.

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