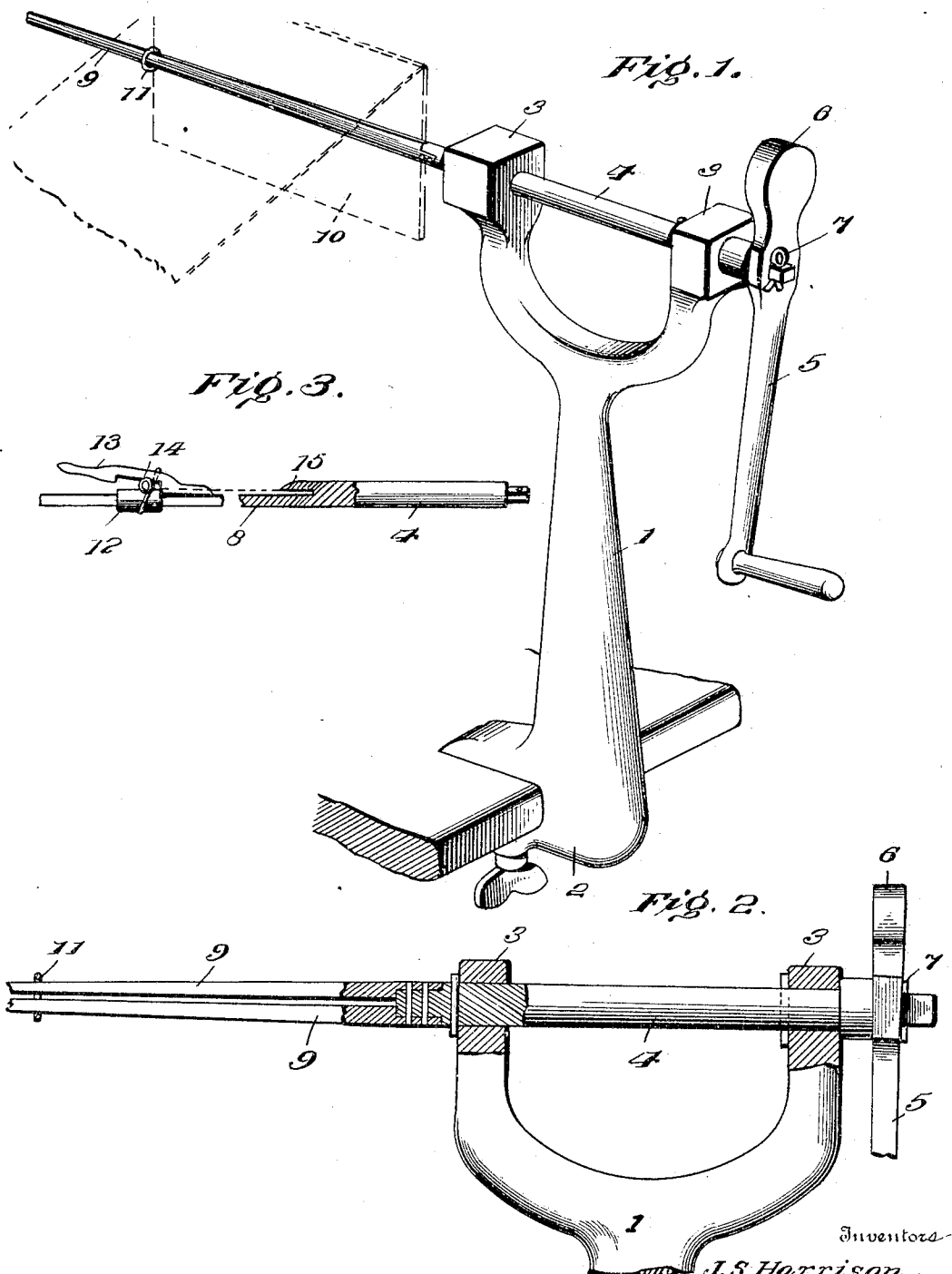


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PATENTED APR. 25, 1905.

J. S. HARRISON & R. L. SIMPSON.
DEVICE FOR WINDING OR UNWINDING GOODS.

APPLICATION FILED JUNE 14, 1904.



Witnesses

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JOSEPH S. HARRISON AND ROBERT L. SIMPSON, OF GREELEY, COLORADO.

DEVICE FOR WINDING OR UNWINDING GOODS.

SPECIFICATION forming part of Letters Patent No. 788,133, dated April 25, 1905.

Application filed June 14, 1904. Serial No. 212,579.

To all whom it may concern:

Be it known that we, JOSEPH S. HARRISON and ROBERT L. SIMPSON, citizens of the United States, residing at Greeley, in the county of Weld and State of Colorado, have invented certain new and Useful Improvements in Devices for Winding or Unwinding Goods, of which the following is a specification.

This invention has for its object to materially lessen the labor of sales-people and merchants engaged in handling goods usually wrapped upon a card or board, such as braids, lace, embroideries, veiling, and the like.

In its construction the device comprises, essentially, a spindle, a mounting therefor, a crank-handle for rotating the spindle, a holder applied to or forming a part of the spindle and adapted to grip the card or board upon which the goods are wound, and a clip or like contrivance cooperating with the holder for securing the part applied thereto.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a machine embodying the invention. Fig. 2 is a side view of the upper portion of the standard, the outer end of the holder and a portion of the crank-handle being broken away and a part of the spindle and bearings of the standard being in section. Fig. 3 is a detail view of a modified form of spindle, holder, and clip.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The standard is indicated at 1 and may be of any height and design and is provided at its lower end with attaching means for securing it to the counter, shelving, or other convenient portion of the store-fixtures. As shown, the standard is provided at its lower end with

a clamp 2 of ordinary construction, and its upper end is forked, the fork members terminating in bearings 3, in which the spindle 4 is journaled. A crank-handle 5 is fitted to one end of the spindle and is weighted, as shown at 6, so as to counterbalance the handle and enable the spindle to rotate freely when unwinding the goods from the card, board, or the like fitted to the holder. The crank-handle is detachably fitted to the spindle and may be secured thereto when in position either by means of a cotter-pin 7 or other contrivance.

The holder may form a part of the spindle or be attached thereto and may consist of a single element, as shown at 8 in Fig. 3, or of complemental members, as shown at 9 in Figs. 1 and 2. The holder may be formed either of wire or bars. As shown in Fig. 3, the holder 8 is a single element formed with or otherwise secured to the spindle 4. As shown most clearly in Fig. 2, the complemental members 9 of the holder are riveted to the inner end of the spindle 4 and are adapted to receive between them the card or board upon which the goods are wound. A clip 11 serves to confine the outer ends of the members 9 and to secure the parts 10 gripped between them. The holder is outwardly tapered to facilitate its entrance between the goods and support 10 when placing the latter in position either for unwinding or winding the goods, as may be required.

In practice the device is attached either to the counter or other convenient portion of the store-fixtures, and in the event of it being required to unwind the goods from a card or board the latter is fitted to the holder of the spindle so as to project about an equal distance from each side thereof. Upon loosening the end of the goods and drawing thereon the spindle and holder will rotate and admit of the rapid and free unwinding of the goods. When it is required to rewind the goods, it is only necessary to rotate the spindle 4 by means of the crank-handle 5. It is to be understood that any means may be resorted to for securing the card, board, or like part 10 to the holder, so as to insure rotation thereof with the spindle.

In some instances, and particularly when the holder consists of a single element, the form of clip substantially as shown in Fig. 3 is provided, the same consisting of a sleeve 5 12, member 13, pivoted to the sleeve, and a cooperating spring 14, the latter serving to pivotally connect the parts 12 and 13 and to cause the member 13 to bear against the holder 8 and retain the clip upon the holder 10 and at the same time grip the outer end of the card, board, or the like fitted to the holder. A projection 15 is arranged near the inner end of the holder for cooperation therewith to retain the inner end of the part 10 in place. 15 Having thus described the invention, what is claimed as new is—

In a machine for winding and unwinding goods, and in combination with a standard

provided with attaching means, a spindle journaled to said standard and having an end 20 portion extended to provide a holder and having a projection at the inner end of the holder spaced therefrom, a sleeve slidable upon the holder, and a spring-actuated clamp member pivoted to said sleeve and adapted to cooperate 25 with the holder to materially assist in securing a card or the like thereto and forming a support for the goods, substantially as set forth.

In testimony whereof we affix our signatures 30 in presence of two witnesses.

JOSEPH S. HARRISON. [L. s.]

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