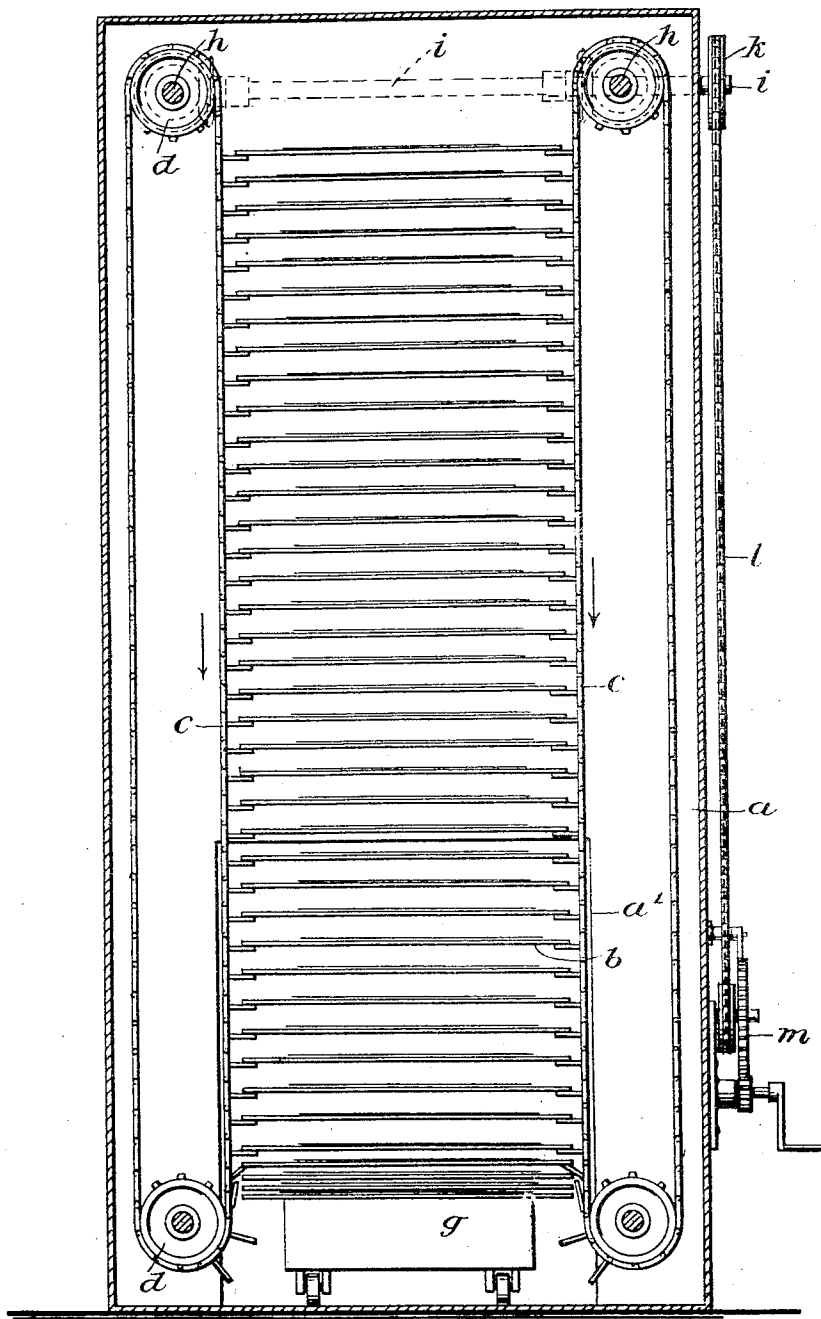


No. 835,312.

PATENTED NOV. 6, 1906.

B. A. McNABB.
APPARATUS FOR HANDLING HIDES.
APPLICATION FILED MAY 23, 1906.

3 SHEETS—SHEET 1.



WITNESSES

John A. B. S. S. S.
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Fig. 1

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3 SHEETS—SHEET 2.

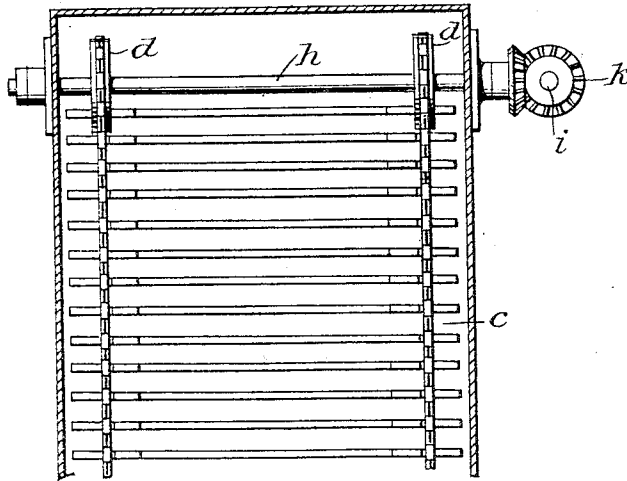


Fig. 2

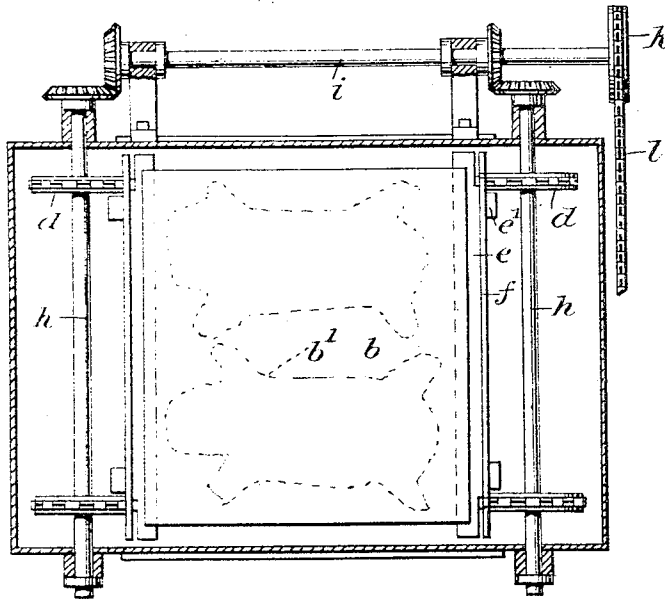


Fig. 3

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3 SHEETS—SHEET 3.

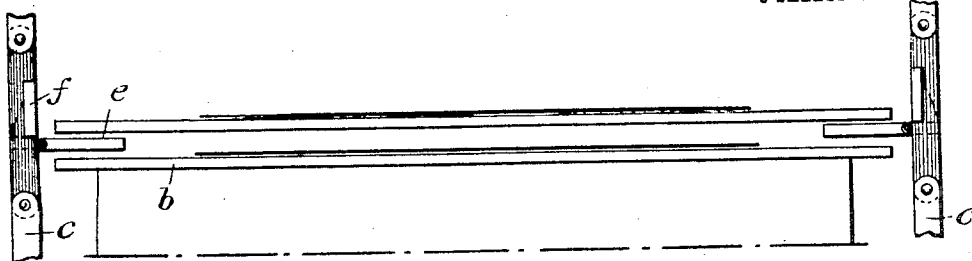


Fig. 4

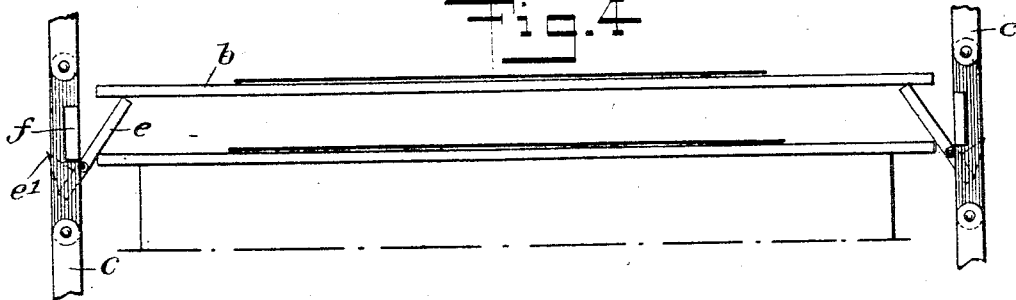


Fig. 5

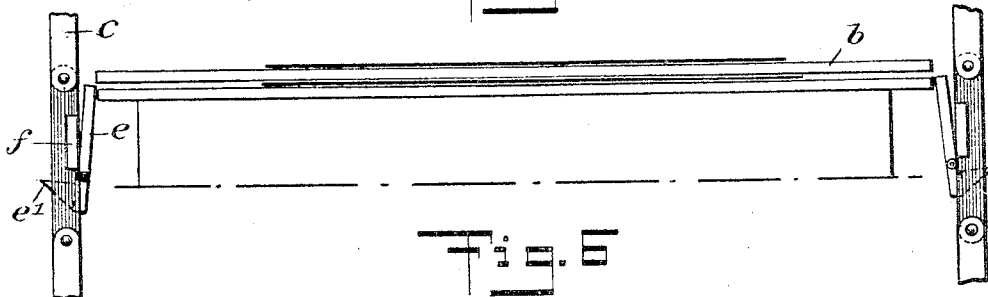
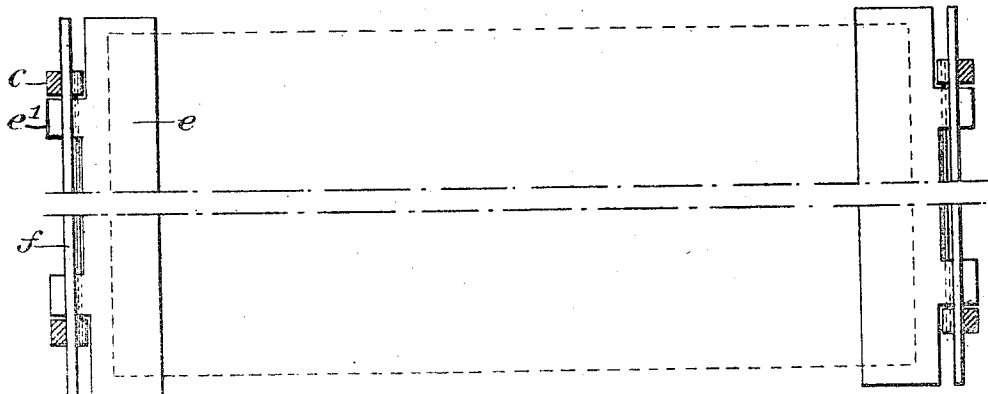


Fig. 6



WITNESSES

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Fig. 7

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UNITED STATES PATENT OFFICE.

BERNARD A. McNABB, OF LOWELL, MASSACHUSETTS.

APPARATUS FOR HANDLING HIDES.

No. 835,312.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed May 23, 1906. Serial No. 318,331.

To all whom it may concern:

Be it known that I, BERNARD A. McNABB, a citizen of the United States, and a resident of Lowell, in the county of Middlesex and State of Massachusetts, have invented a new and Improved Apparatus for Handling Hides, of which the following is a full, clear, and exact description.

My invention relates to a means for handling hides or skins, particularly those being treated for so-called "patent-leather," and by means of which the hides fastened to the boards in the usual manner may be readily placed in proper position in the drying-oven, and when the drying process is finished the hides may be removed from the oven in far less time and with far less labor than by the ordinary method of handling.

The invention resides in certain special features of construction and combinations of parts, and all will be fully set forth hereinafter and particularly pointed out in the claims.

Reference is to be had to the accompanying drawings, which illustrate, as an example, the preferred embodiment of my invention, in which—

Figure 1 is a sectional view of the oven, showing my apparatus applied thereto. Fig. 2 is a detail section of the upper part of the oven. Fig. 3 is a sectional plan of the same, and Figs. 4, 5, 6, and 7 are detail views, illustrating the automatic latches for holding the skin-boards and depositing them on the truck or other vehicle provided for the removal thereof.

The invention may be applied to various types of ovens. The drawings show an oven having an outer shell *a* and a door or opening *a'* to permit entering and removing the skins. The skins are, as usual, stretched over boards *b*, as indicated by the broken lines *b'* in Fig. 2. It is customary to place the boards separate from each other for the circulation of heated air between them within the oven, so as to dry and harden the composition with which the leather is coated. For this purpose I provide two sets of chains *c*, which run over suitable sprockets *d*, and, as shown best in Figs. 4, 5, 6, and 7, these chains are provided with latches *e*, which are pivoted on the chains and have lugs *e'* which coact with stops *f*, fastened to the chains, said stops being in the form of bars stretched across between

the members of each pair of chains and the arrangement being such that the stops may assume the vertical position shown in Figs. 5 and 6, releasing the boards *b*, as Fig. 6 shows, or the latches may swing out, as shown in Figs. 1 and 4, supporting the boards, in which latter position said latches are held by the lugs or dogs *e'*, engaging the stops *f*. During the drying operation the boards are placed in the latches and held thereby properly disposed in the oven. When the drying operation has been concluded by moving the chains *c* in the direction of the arrow shown in Fig. 1, the boards may be successively disposed upon a truck *g* or other means for removing the boards from the oven. As the boards engage the truck the latches automatically disengage the boards, as is illustrated in Figs. 1, 4, 5, and 6.

The sprockets *d*, carrying the chains *c*, may be operated in any desired manner. As here shown, the upper sprockets *d* are attached to shafts *h*, which pass horizontally through the sides of the oven and are geared to the shaft *i*, having a sprocket *k*. Over this sprocket runs a chain *l* down to a suitable gear *m*, by which motion may be imparted to the train of gearing and the chain *c* moved in either direction as desired.

It will be observed that this arrangement not only provides means by which the boards may be quickly placed in the oven in proper disposition, but also enables the boards to be "duffed" or removed from the oven far more rapidly than by the ordinary practice, it being only necessary to run the truck *g* into the oven and move the chains *c* downward into the oven, properly disposing the boards on the truck in succession, after which the entire load may be instantly removed.

In the following claims I desire it understood that the term "chain" is employed with the intent to cover such equivalents thereof as ropes, cords, or other flexible constructions.

Having thus described the preferred form of my invention, what I actually claim, and desire to secure by Letters Patent, is—

1. The combination with the drying-oven, of opposing pairs of chains arranged to move vertically therein, pivoted latches connecting the individual members of each pair, at spaced intervals, said latches having dogs adjacent to the chains, and stops on the

chains for engaging the dogs whereby to retain said latches at right angles to the chains, the latches on one pair of chains registering with the latches of the other pair.

- 5 2. The combination with the drying-oven, of opposing pairs of chains arranged to move vertically therein, pivoted latches connecting the individual members of each pair at spaced intervals, the latches of one pair of chains registering with the latches of the other pair, and

means for retaining the latches on the adjacent runs of the chains at right angles with said chains.

In testimony whereof I have signed my name to this specification in the presence of 15 two subscribing witnesses.

BERNARD A. McNABB.

Witnesses:

ANDREW J. HALPIN,
WILLIAM JONES.