

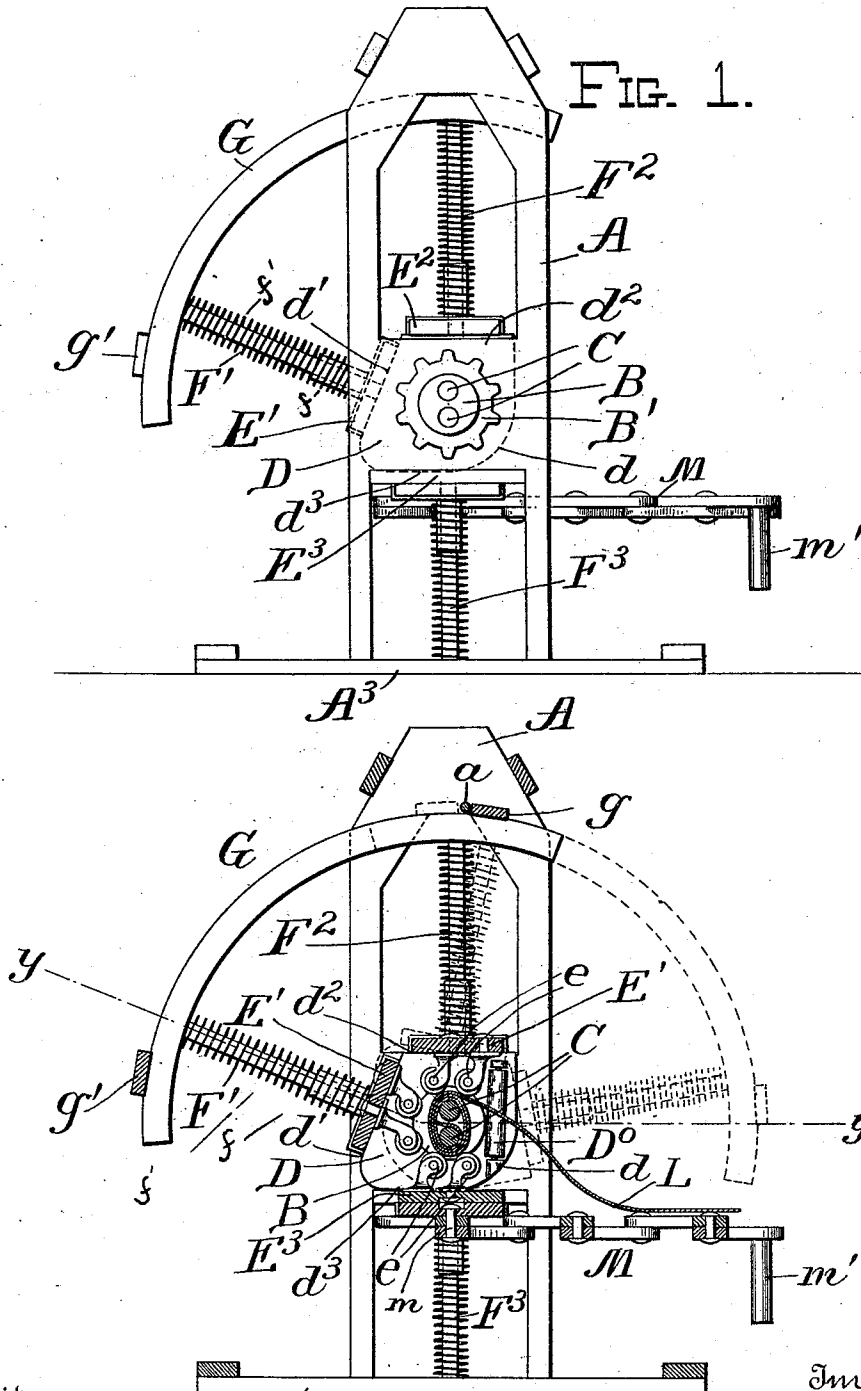
(No Model.)

2 Sheets—Sheet 1.

G. M. DISHER.
MACHINE FOR ROLLING HIDES, &c.

No. 515,200.

Patented Feb. 20, 1894.



Witnesses
Percy C. Bowen,
John Q. Wilson

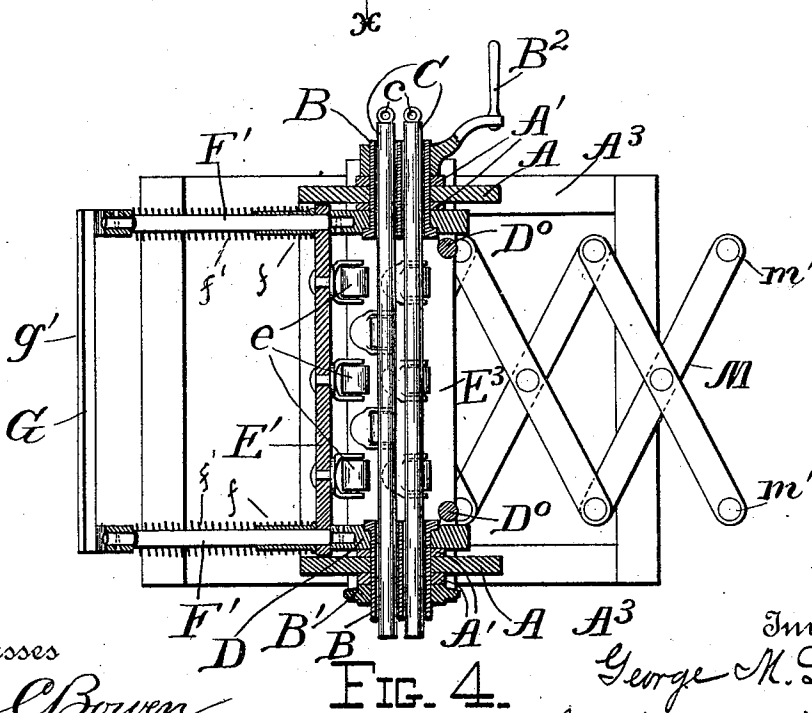
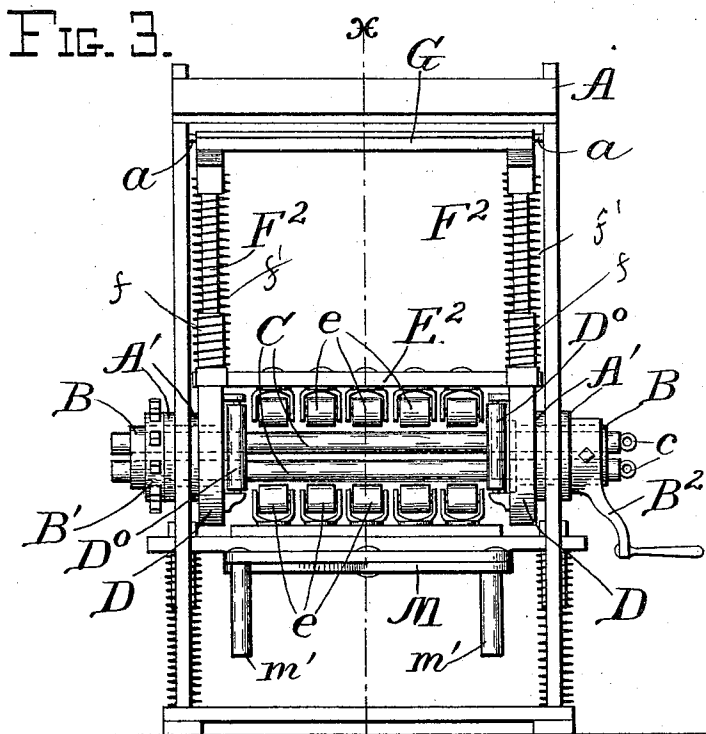
A³ FIG. 2.

Inventor
George M. Disher,
by Whitman & Wilkinson,
Attorneys.

G. M. DISHER.
MACHINE FOR ROLLING HIDES, &c.

No. 515,200.

Patented Feb. 20, 1894.



Witnesses
Wesley C. Bowen.
John Q. Wilson

Inventor
George M. Disher
by Whitman & Wilkinson,
Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE M. DISHER, OF WOODSBURG, NEW YORK.

MACHINE FOR ROLLING HIDES, &c.

SPECIFICATION forming part of Letters Patent No. 515,200, dated February 20, 1894.

Application filed November 14, 1893. Serial No. 490,946. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. DISHER, a citizen of the United States, residing at Woodsburg, in the county of Queens and State of New York, have invented certain new and useful Improvements in Machines for Rolling Hides, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in rolling hides, sides of leather, or in fact any flexible material having sufficient flexibility, such as mats, strips of bark, canvas, carpets, or other similar material, either of regular or irregular shape.

My invention will be understood after reference to the accompanying drawings in which the same parts are indicated by the same letters throughout the several views.

Figure 1 represents a side elevation of my improved machine as seen from the left of Fig. 3. Fig. 2 represents a central longitudinal section along the line *xx* of Fig. 3. Fig. 3 represents a front view of the machine, and Fig. 4 represents a section along the line *yy* of Fig. 2, except that the hub holding the rods C has been turned through an angle of ninety degrees from the position shown in Fig. 2.

A represents the framework mounted on the pedestal A³, and provided with journal bearings A' for the hubs B, through which the rods C C are slid, and from which they are drawn out by means of lines or tackles hooked to the eye-bolts *c*. The hubs B carry a sprocket wheel B', or other equivalent driving device, or they may be operated by a hand crank B² on either or both of the hubs. Journalled on the inner part of the hub I provide blocks D curved as at *d*, and provided with three faces *d'* *d*², and *d*³, so arranged as to limit the inward travel of the sliding cross pieces E' E² and E³, which carry the casters *e*, which casters are journaled in said pieces so that they may adapt themselves to the direction of the article being rolled up. These cross pieces E' E² and E³ are attached to the heads *f* of spring plungers mounted on the rods F', F² and F³, which plungers normally tend to compress the hide or other article while it is being rolled up. These plunger heads are

preferably in the form of a hollow sleeve *f*, loosely mounted on the spoke, and normally pressed forward by means of a coiled spring *f'*. Two of these cross pieces are mounted in a swinging frame preferably in the form of an arc G, of which the block D forms the hub, and the rods F' F² the spokes, the said swinging frame thus being a sector of a wheel having the block D for its own hub and being journaled on the hub B as an axle; the said arc being free to be moved from the position shown in full lines to that shown in dotted lines in Fig. 2.

The revolution of the arc G is limited by the studs *a* in the framework which bring up against one or the other of the strips *g* and *g'* securing the opposite arcs together.

The third of the cross pieces is connected to the pedestal A³ of the framework A, and tends to press the sliding cross piece E³ upward, as shown most clearly in Fig. 2.

Vertical side rollers D⁰ are attached to the inside of the block D to guide and center the hide or other article being rolled up.

L represents a hide or article being rolled up, and M represents an extension table pivoted at *m*, and adapted to be drawn out and form a support for the articles to be rolled up. The legs *m'* of this extension table, which are made short to adapt themselves to the position of the movable cross piece E³ to which the table is secured, may be shored up with blocks, not shown, or in any other suitable way. Or this table may be replaced by an ordinary table fixed to the framework.

The operation of the device is as follows: The end of the hide or other article to be rolled up is placed between the parallel rods C, which are revolved together with the hubs B, either by the sprocket wheel B', the hand crank B² or in any other convenient way. The end of the hide is nipped between the rods, and it is rolled up in the manner shown in Fig. 2. The casters *e* being pressed forward by the spring plungers give the pressure required for the article to be rolled up snugly, and prevent the end from hanging loose when the process of rolling up is completed. After the hide has been completely rolled, it is tied up with string or wire, the arc G is swung over to the position shown in dotted lines in Fig. 2, the rods C are drawn

outbodily by means of tackles or whips hooked in the eyes *c*, and the pressure of the spring F^2 throws the bundle out of the back of the machine where it may fall on a carrier, truck, or other receptacle placed there for the purpose. As soon as the rolled hide is ejected, the rods *C* are re-inserted, the arc *G* is swung back to the position shown in full lines in Fig. 2, and the operation of rolling may be repeated.

It is obvious that many modifications of the herein described device might be made, which could be used without departing from the spirit of my invention.

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

1. In a machine of the character described, the combination with two perforated hubs, rods adapted to slide into and out of said hubs, and means for revolving said hubs; of a plurality of movable cross pieces arranged in close proximity to said rods, rollers mounted in the sides of said movable cross pieces next said rods, and springs normally pressing said movable cross pieces and rollers toward said rods, substantially as described.

2. In a machine of the character described, the combination with two perforated hubs, rods adapted to slide into and out of said hubs, and means for revolving said hubs; of a plurality of movable cross pieces arranged in close proximity to and parallel to said rods, rollers mounted in the sides of said movable cross pieces next said rods, springs normally pressing said movable cross pieces and rollers toward said rods; and guide rollers mounted near the inner ends of said hubs, substantially as described.

3. In a machine of the character described, the combination with two perforated hubs, rods adapted to slide into and out of said hubs, and means for revolving said hubs; of a plurality of movable cross pieces arranged in close proximity to and parallel to said rods, rollers mounted in the sides of said movable cross pieces next said rods, springs normally pressing said movable cross pieces and rollers toward said rods; guide rollers mounted near the inner ends of said hubs; and a feed table mounted in front of said rods and guide rollers, substantially as and for the purposes described.

4. In a machine of the character described,

the combination with two perforated hubs, rods adapted to slide into and out of said hubs, and a swinging frame journaled on said hubs; and means for revolving said hubs; of a plurality of movable cross pieces arranged in close proximity to said rods, plunger heads connected to said cross pieces and mounted in said swinging frame and in the framework of the machine, respectively, rollers mounted in the sides of said cross pieces next said parallel rods, and springs normally pressing said cross pieces and rollers toward said parallel rods, substantially as described.

5. In a machine of the character described, the combination with two perforated hubs, rods adapted to slide into and out of said hubs, means for revolving said hubs, and a swinging frame journaled on said hubs; of a plurality of movable cross pieces arranged in close proximity to and parallel to said rods, plunger heads connected to said cross pieces and mounted in said swinging frame and in the framework of the machine, respectively, rollers mounted in the sides of said cross pieces next said parallel rods, and coil springs surrounding said plunger heads and normally pressing said cross pieces and rollers toward said parallel rods, substantially as described.

6. In a machine of the character described, the combination with two perforated hubs, rods adapted to slide into and out of said hubs; means for revolving said hubs, and a swinging frame journaled on said hubs; of a plurality of movable cross pieces arranged in close proximity to and parallel to said rods, and having plunger heads mounted in said swinging frame and in the framework of the machine, respectively, rollers mounted in the sides of said cross pieces next said parallel rods, coil springs surrounding said plunger heads, and normally pressing said cross pieces and rollers toward said parallel rods; guide rollers mounted near the inner ends of said hubs; and a feed table mounted in front of said parallel rods and guide rollers, substantially as and for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE M. DISHER.

Witnesses:

ROBERT T. McDONALD,
GEO. A. KOCH.