

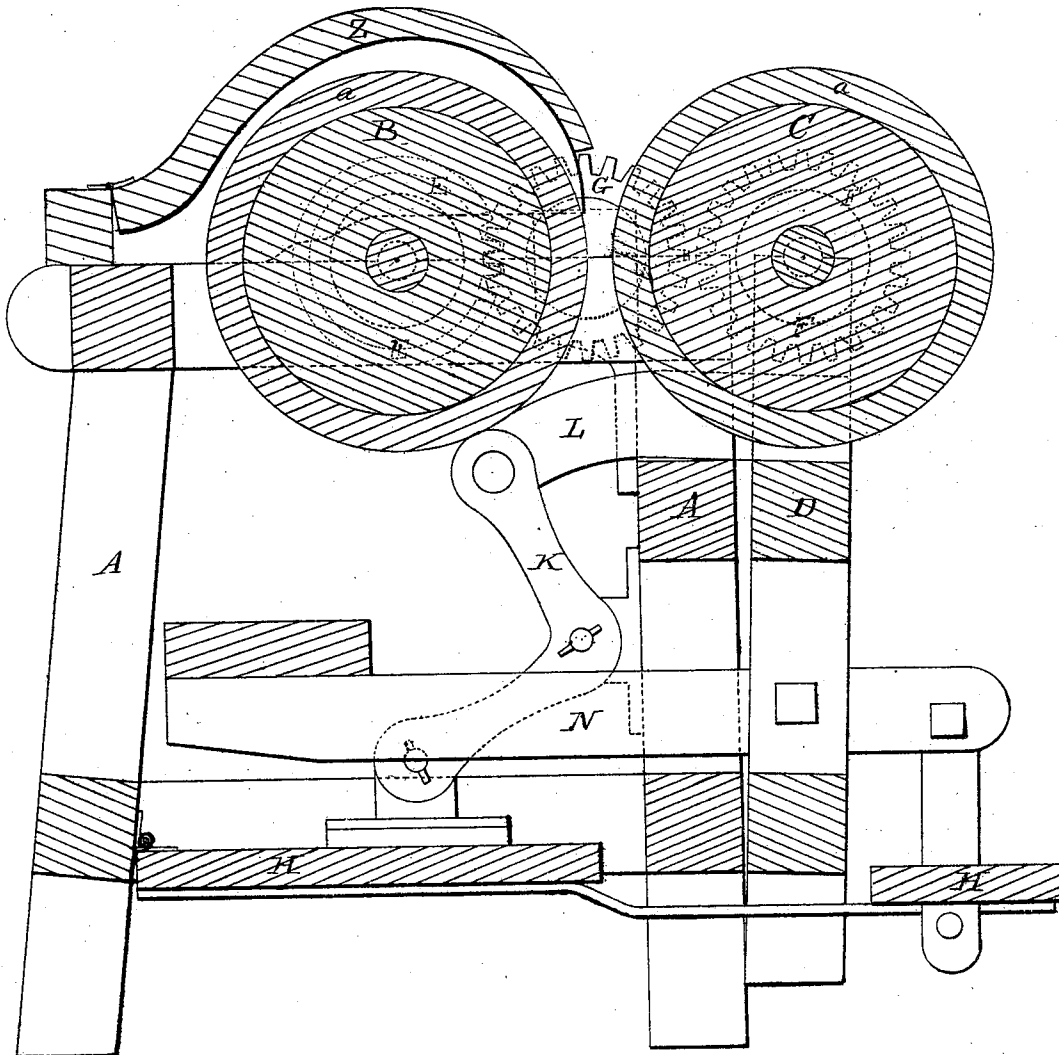
N. O. LOUNSBERRY.

Machinery for Pebbling and Graining Wet Skins.

No. 140,633.

Patented July 8, 1873.

Fig. 1.



WITNESSES.

Chas. H. Steele
E. A. Bates.

INVENTOR.

N. O. Lounsberry
Chipman & Son, & Co.
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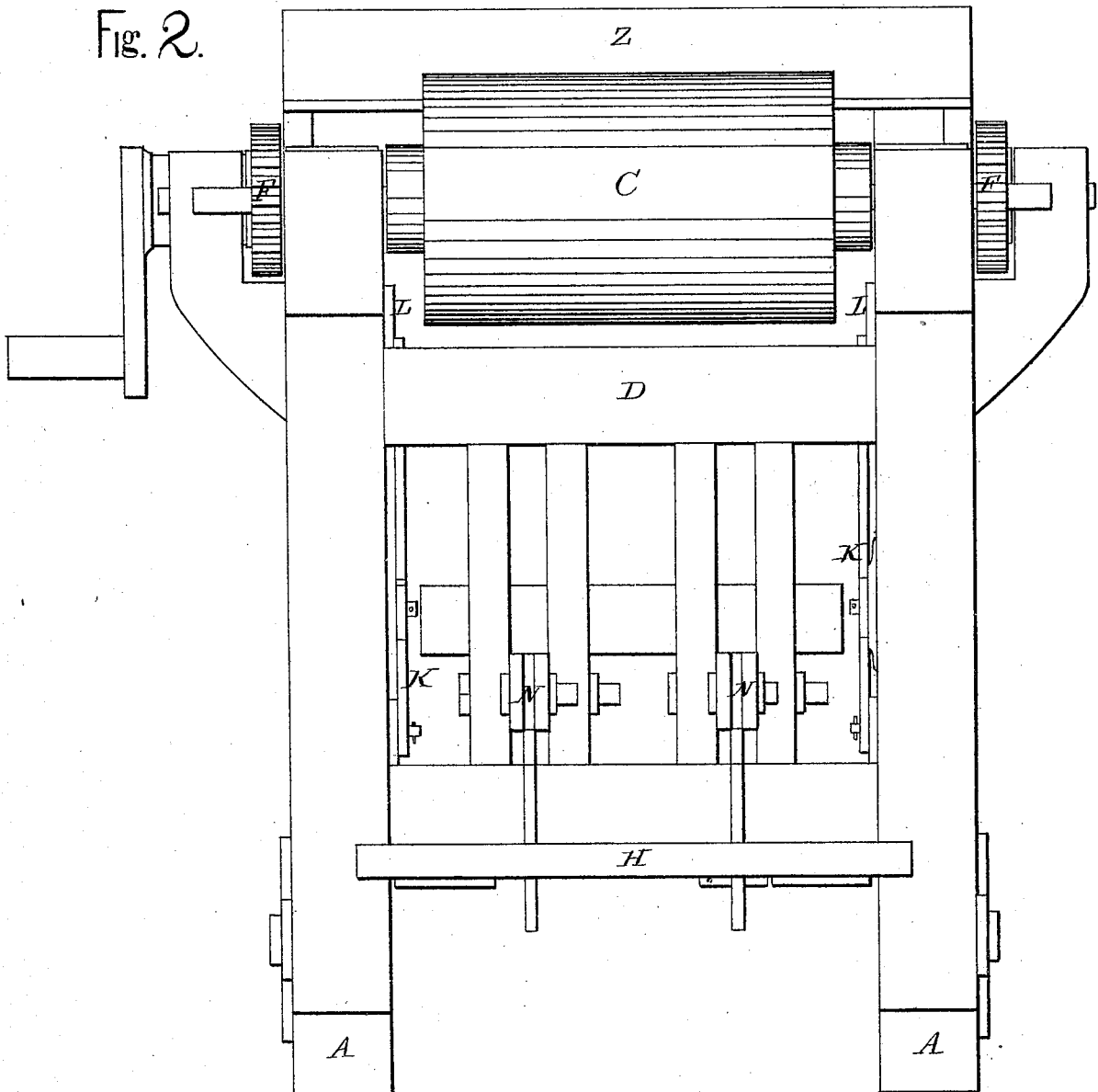
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Fig. 2.



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E. H. Bates

INVENTOR.

N. O. Lounsberry
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UNITED STATES PATENT OFFICE.

NOHNAN O. LOUNSBERRY, OF WILMINGTON, DELAWARE.

IMPROVEMENT IN MACHINERY FOR PEBBLING AND GRAINING WET SKINS.

Specification forming part of Letters Patent No. **140,633**, dated July 8, 1873; application filed April 12, 1873.

To all whom it may concern:

Be it known that I, NOHNAN OLMSTEAD LOUNSBERRY, of Wilmington, in the county of New Castle and State of Delaware, have invented a new and valuable Improvement in a Machine for Pebbling and Graining Goat and other Skins in a Wet State; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical transverse section of my pebbling-machine, and Fig. 2 is a front view thereof.

This invention has relation to means for pebbling goat and other skins; and it consists in the construction and novel arrangement of the cork-covered rollers, horizontally parallel with each other, and geared to turn in the same direction, and provided with suitable operating devices, designed to give complete command of the skin during the rolling thereof.

In order to make clear the object of this invention, it is premised that, in finishing goat-skins into pebbled or Turkey-grain morocco, it is necessary to dampen the skins, so that they will be perfectly soft, and then to roll them in different directions under cork or gum board, this manipulation bringing up a sharp, round grained surface on the skins, in such a manner that they will not "last out" in making a shoe. The object of this invention, then, is to produce a machine that will pebble or grain goat or other skins in a wet state, as well as soften or re-pebble them when dry.

In the accompanying drawings, the letter A designates the frame of the machine, consisting of suitable standards and horizontal connecting-bars. B indicates the stationary roller, having its cylindrical surface covered with cork, gum, or other suitable material, *a*. This roller is journaled in suitable slots in the frame, and its shaft should be provided with a crank, belt-wheel, or other suitable device for the application of power. C indicates the adjustable or movable roller, also covered with cork or other suitable material, and journaled to a frame, D, which is hinged or pivoted to the frame A near its lower end, and vibrates ver-

tically toward and from the front of the frame A. In this manner the adjustable roller is arranged horizontally parallel or on a level with the stationary roller, so that the gravity of the leather will carry the doubling or plication down between the rollers to the point where they approach each other most closely. The shafts of the rollers B and C are provided with the toothed wheels E and F, respectively, at one or both ends, and these toothed wheels are designed to engage with an intermediate gear-wheel, G, pivoted to the frame A. To the rear and lower portion of the frame A is hinged or pivoted the treadle-frame H, which is connected with the frame D by suitable connecting-levers K and arms L, in such a manner that when the treadle is pushed down the cylinder C is moved toward the stationary cylinder B. When the treadle is relieved from the pressure it rises, being lifted by the weighted levers N. At the same time that the cylinder C is moved away from the stationary roller its gear-wheel F is disengaged from the intermediate wheel G. Pressure on the treadle causes these wheels to engage with each other, at the same time moving the front cylinder toward its fellow. When the cylinders B and C are in gear they will turn in the same direction upon the application of power.

In the operation of this machine, the skin is fed over the front roller, with the flesh side down, and falls between this and the rear roller. These rollers being on a level with each other, the rear roller carries the forward end of the skin upward under the cover herein-after mentioned. The doubling of the leather, by the pressing or crimping of which the graining is effected, thus falls naturally, both on account of its gravity and on account of its extreme pliability when in the wet or softened state, in the space between the rollers.

The operator has, by means of the above-mentioned devices, full control of the rollers in their action upon the skins, and is enabled to give them a similar crimping and rolling pressure to that applied in the ordinary manipulation.

The rear or stationary roller B is designed to be provided with a hinged cover, Z, curved to correspond somewhat with the upper surface of the rear roller, and extending forward

to the space between the rollers to guide the leather upon the rear roller.

What I claim as new, and desire to secure by Letters Patent, is—

In a machine for graining and pebbling skins, the arrangement, with or without the cover, of the two graining-rollers, turning in the same direction horizontally parallel with each other, as shown, so that the skin will gravitate into the space between said rollers,

together with operating devices, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

NOHNAN OLM TEAD LOUNSBERRY.

Witnesses:

S. B. BOND,

LEWIS P. BUSH, Jr.