

P. O'BRIEN.

Pebbling-Machines for Leather.

No. 157,632.

Patented Dec. 8, 1874.

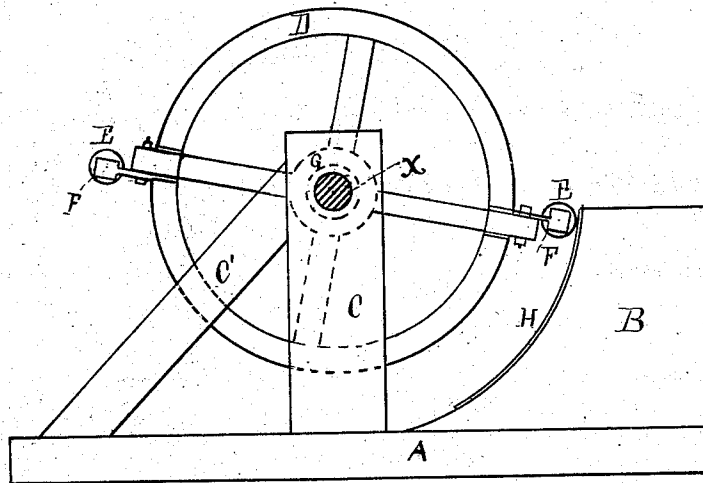


Fig. 1.

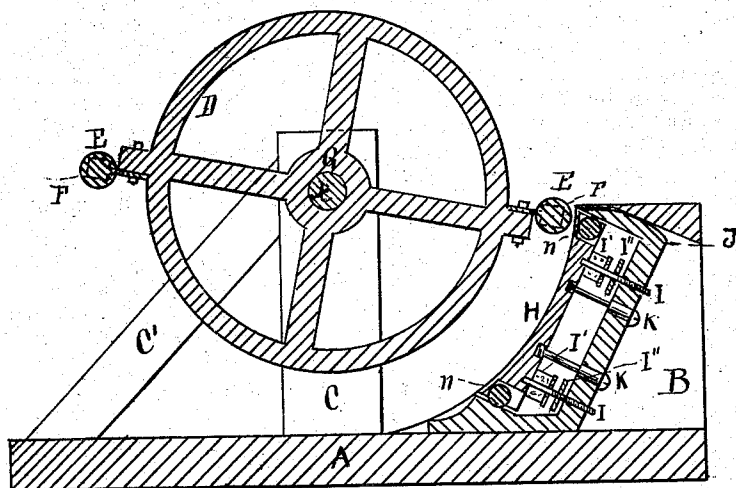


Fig. 2.

Witnesses

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PATRICK O'BRIEN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN PEBBLING-MACHINES FOR LEATHER.

Specification forming part of Letters Patent No. **157,632**, dated December 8, 1874; application filed May 23, 1874.

To all whom it may concern:

Be it known that I, PATRICK O'BRIEN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a Pebbling-Machine, of which the following is a specification:

The object of the invention is to form rapidly the wavy, broken, or checkered appearance, commonly known as pebbled, upon the outer surface of leather or skins. This is accomplished by means of a revolving wheel suitably mounted or supported, said wheel having upon its periphery, and firmly attached to the same, one or more pebbling devices. The pebbling device consists of a revolving cylinder hung between two stationary arms or housings, and said cylinder having its surface indented with figures or wavy lines to produce the effect of pebbling upon the leather. In the revolution of the wheel the pebbling device is pressed against a yielding bed or table, and between this pebbling-tool and the bed or table the leather is passed, and receives the appearance above described.

The manner in which this is done is clearly shown in the accompanying drawings, in which—

Figure 1 is a side elevation, and Fig. 2 is a vertical section, of the same.

A represents the floor or platform upon which the machine is erected or placed. B is an upright hollow frame or form, having its side next the wheel circular. Fig. 1 shows an elevation, and Fig. 2 a section, of the same, containing within it the yielding bed or table H. (Seen in Fig. 2.) The bed H (see Fig. 2) has two rollers, *n n*, one at each extremity, to lessen the friction in rising and falling within the pronged brace J. It is also kept in place by the two screws I I, which are provided

with rubber cushions I' I', surrounding the screws, and having each a check-nut, I'', between the brace J and the cushion I'. The screw I extends on the one hand into the bed H, and on the other is free to pass through the brace J. K K also are retaining-screws penetrating the bed H, but pass loosely through the brace J. The wheel D revolves between suitable upright posts or frame C, (see Figs. 1 and 2,) and is moved by any desired motive power applied at G. The pebbling cylinder E is attached to the periphery-wheel D by an arm, F, so that, when the wheel D revolves, the pebbler E, which also revolves, presses upon the leather lying or held upon the bed H.

The advantage of the revolving wheel over the pendulum motion is, that much more work can be done at the same time. The machine also requires less space. Also, any convenient number of pebbles may be attached to the periphery of the wheel D, and the leather is less liable to pull.

The cylinder E is, of course, made of the most hardened material, and has inscribed upon its surface any desired figures or lines. Its use for this purpose is not new, whether exercised by the human arm as motive power or by machinery.

I claim as my invention—

The combination and arrangement of the bed H, the brace J, the screws I I, provided with the cushions I' I' and the check-nuts I'' I'', and the retaining-screws K K, substantially as and for the purpose shown and described.

PATRICK O'BRIEN.

Witnesses:

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