

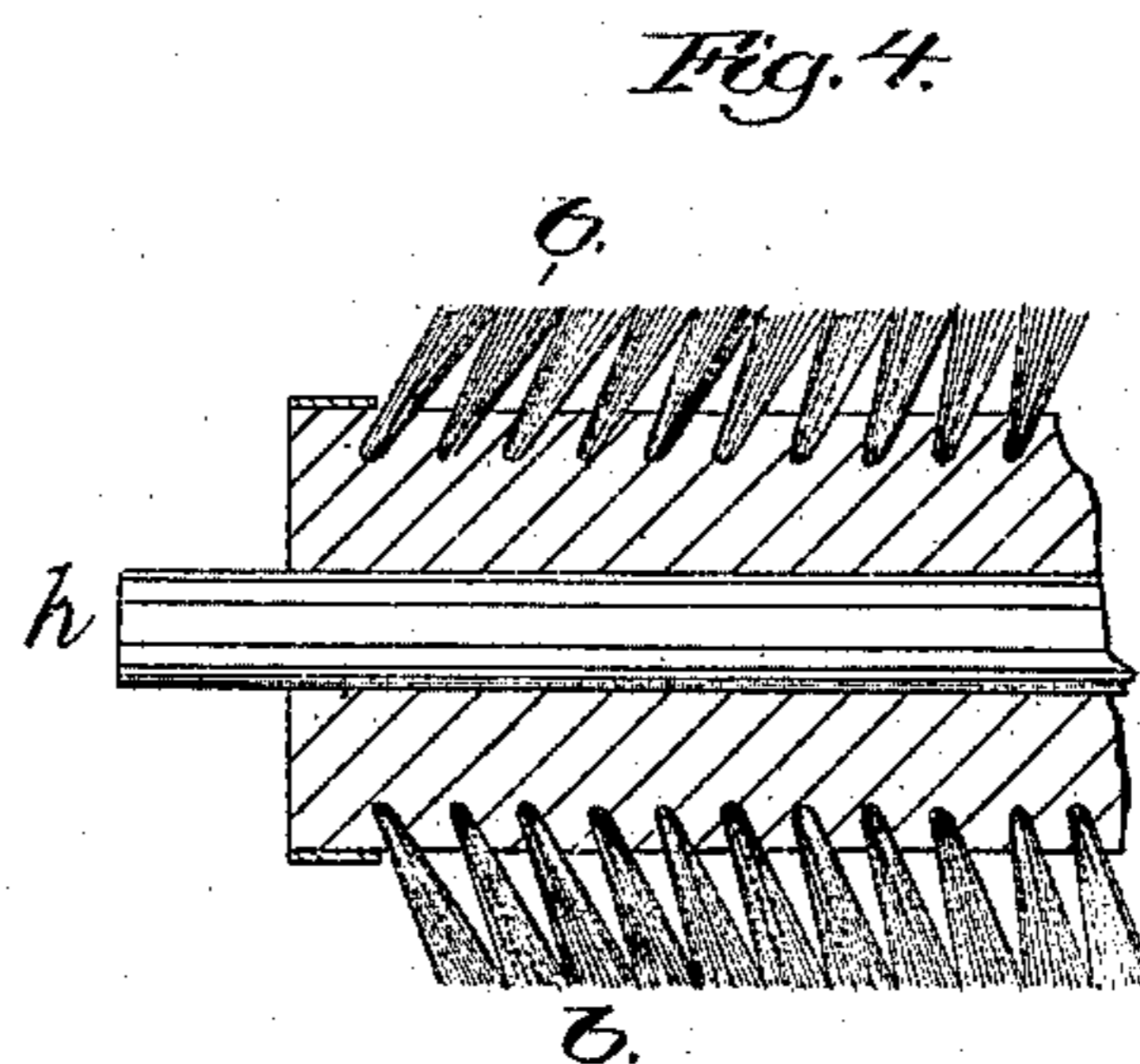
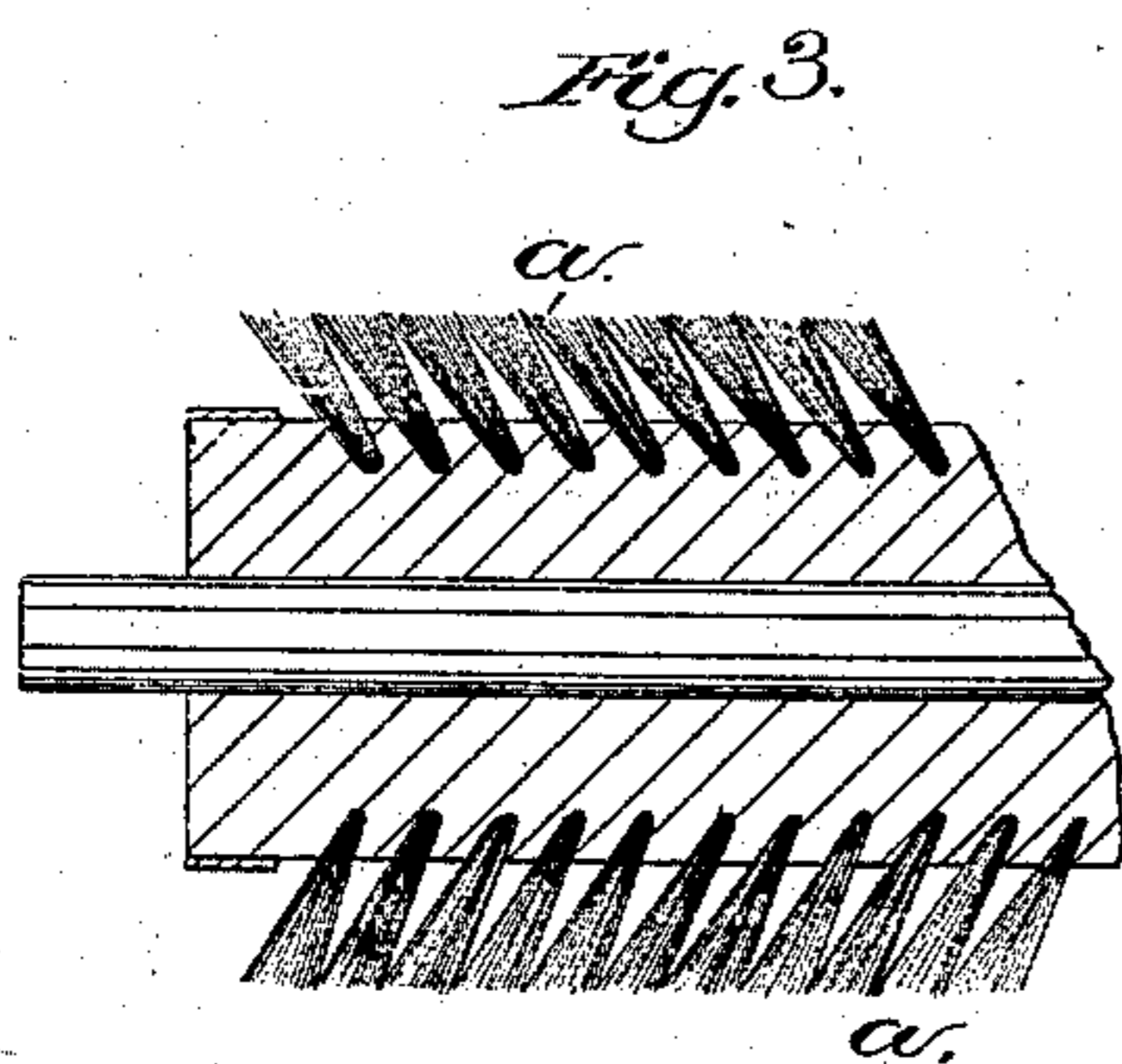
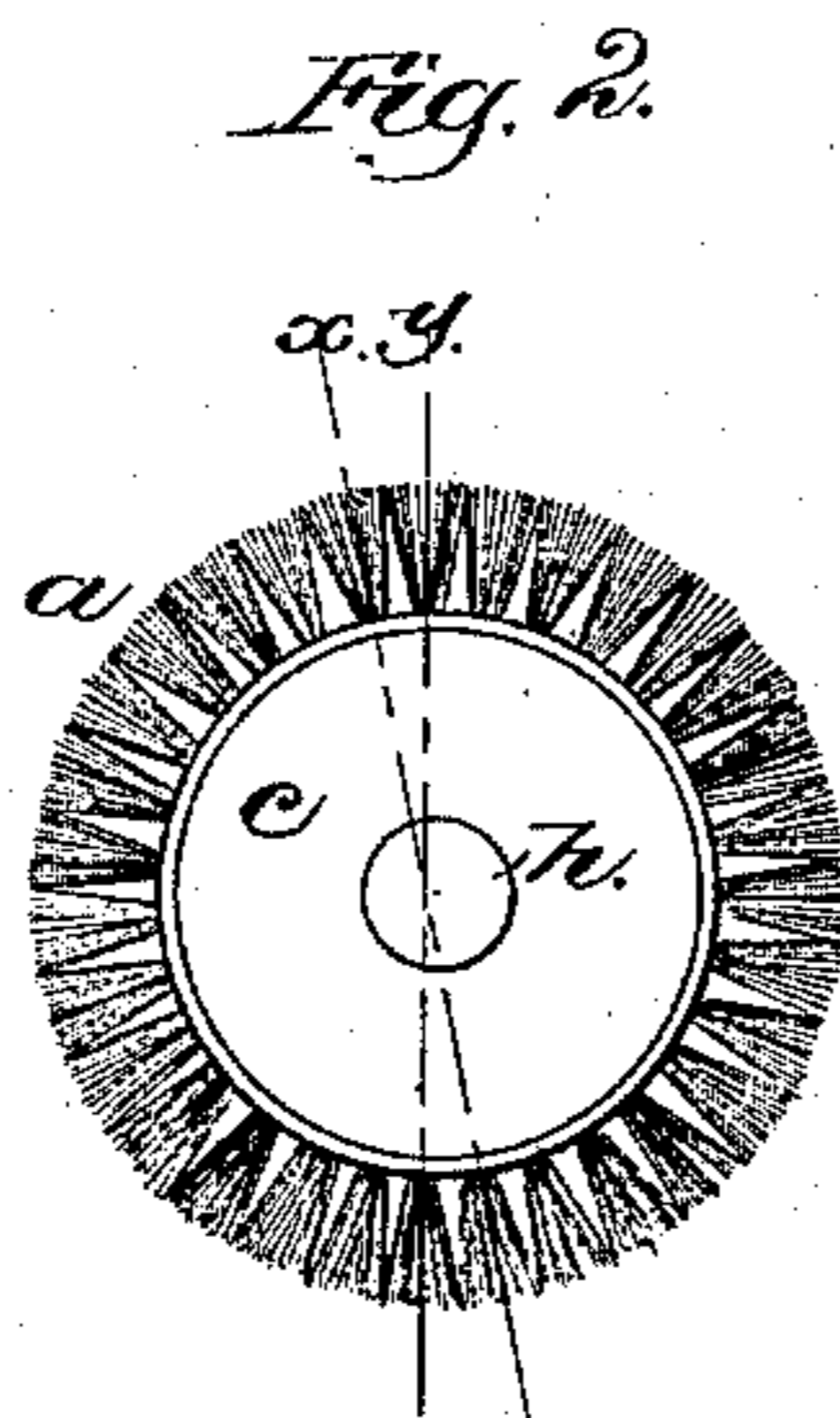
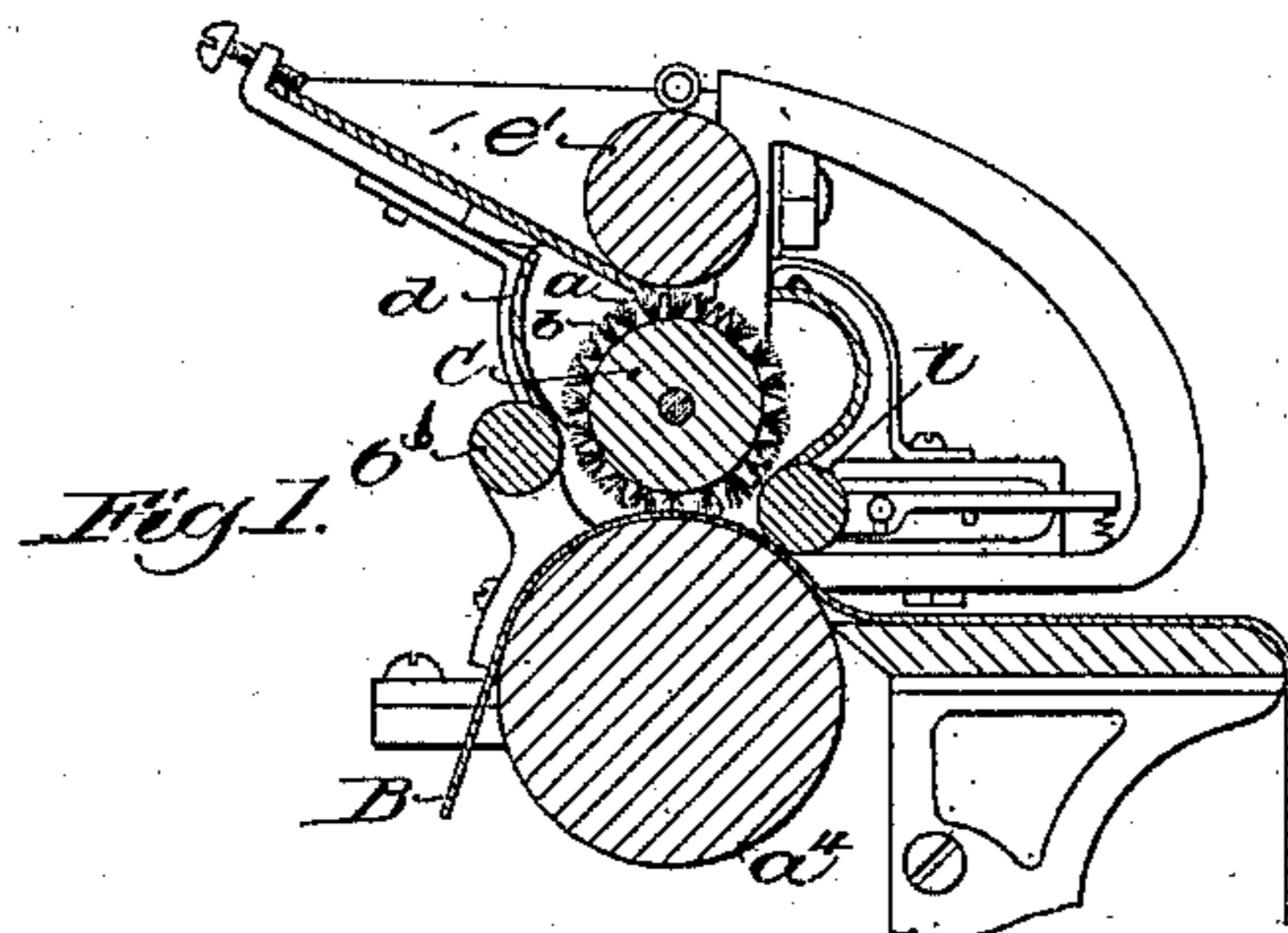
(No Model.)

F. B. BATCHELDER.

LEATHER BLACKING, DRESSING, AND FINISHING APPARATUS.

No. 271,971.

Patented Feb. 6, 1883.



Witnesses.
Fred A. Powell.

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UNITED STATES PATENT OFFICE.

FRED B. BATCHELDER, OF EAST BOSTON, MASSACHUSETTS, ASSIGNOR TO
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LEATHER BLACKING, DRESSING, AND FINISHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 271,971, dated February 6, 1883.
Application filed December 19, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRED B. BATCHELDER, of East Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Leather Blacking, Dressing, and Finishing Apparatus, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object to improve the operation of a machine such as represented in United States Patent No. 251,401, heretofore granted to me, and to which reference may be had. In this machine the brush-roller
15 which applied the blacking or the liquid dressing to the leather on a rotating supporting surface or roll had its bristles set radial; but with such a brush the distribution of the blacking is not as uniform and thorough as I desire, so, to
20 cause the brush to apply the blacking to every minute part of the face of the leather being blacked or treated, I have inclined the bristles of the alternate rows of bristles of the said
25 brush in different directions, the bristles of one row inclining toward one end of the cylinder and those of the next alternate row toward the opposite end of the cylinder, so that the
30 ends of the bristles, besides traveling over the leather in the direction of rotation of the brush-roller, also, when in contact with the leather, spring or yield in opposite directions, the free
35 ends of the bristles of alternate rows moving in opposite directions longitudinally as compared with the axis of the brush-roll, thus working the blacking backward and forward
40 across the leather, as well as in the direction of its movement over the supporting-surface. In this way every particle of the upper side of the leather is effectually blacked and streaks
45 are effectually prevented.

Figure 1 represents in section a sufficient portion of a leather blacking or dressing machine to illustrate my present improvement; Fig. 2, an end view of the brush-roller on a larger scale, and Figs. 3 and 4 two partial sections thereof in the dotted lines *x* and *y*.

The supporting-bed *a*¹, color-roller *c*¹, deflector *d*, spatter-roller *b*¹, and roller *i* are as in my patent referred to. The roller *c*, which applies blacking to the leather *B*, has its alternate longitudinal rows of bristles *a* *b* inclined in opposite directions, those of one row being as in Fig. 3 and those of the next row as in Fig. 4, so that as the bristles yield on coming in contact with the leather *B* those of one row, as in Fig. 3, will yield and move toward the left end of the brush-cylinder, while those of the adjacent row, (see Fig. 4,) oppositely inclined, will move toward the right of the cylinder, the bristles of the two rows thus moving over the leather one after the other in opposite directions, in the direction of the length of the supporting-roller *a*¹, at the same time that all the bristles sweep over the leather as it is carried under it by the roller *a*¹. In this way the blacking is brushed on the leather both longitudinally and transversely. The brush-cylinder will have a metal journal at each end, the journal preferably forming part of a metal shaft extended through the cylinder *c* of wood. The cylinder *c* is provided with a series of diagonal holes at opposite inclinations, (see Figs. 3 and 4,) into which the bristles *a* *b* will be inserted and held by glue and wooden plugs or nails, or in any usual manner.

By the term "bristles" I intend to include any usual material commonly employed as substitutes for bristles, such as hair, tampico, &c.

I claim—

The brush-cylinder *c*, having metal journals, and provided with bristles *a* *b*, inclined in opposite directions, and adapted to yield, as described, in applying the blacking or dressing to the leather, as and for the purposes set forth.

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

FRED B. BATCHELDER.

Witnesses:

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