

(No Model.)

J. PFEIFER.

APPARATUS FOR SCOURING, CLEANSING, AND POLISHING METALS, &c.

No. 395,583.

Patented Jan. 1, 1889.

Fig. 1.

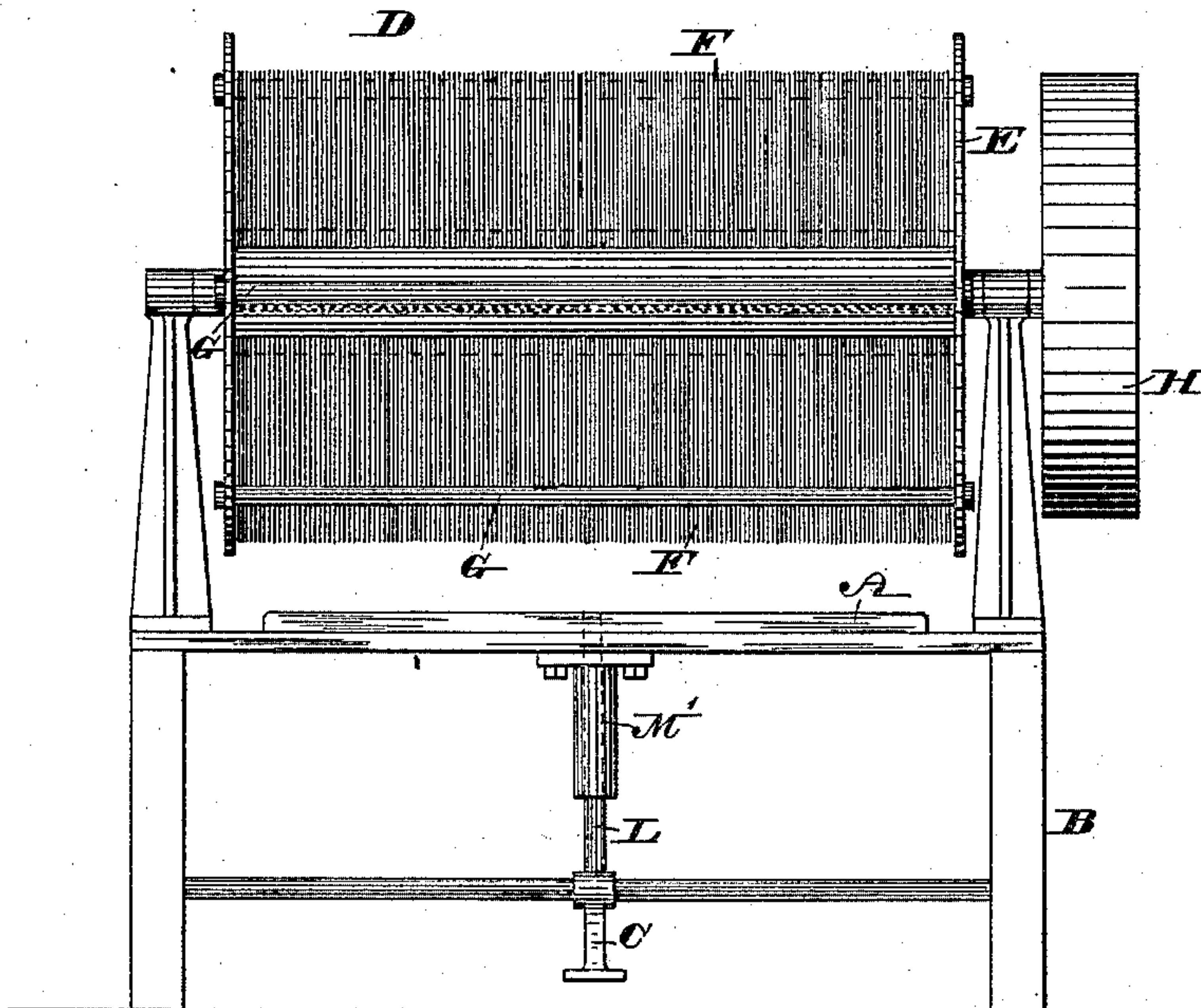
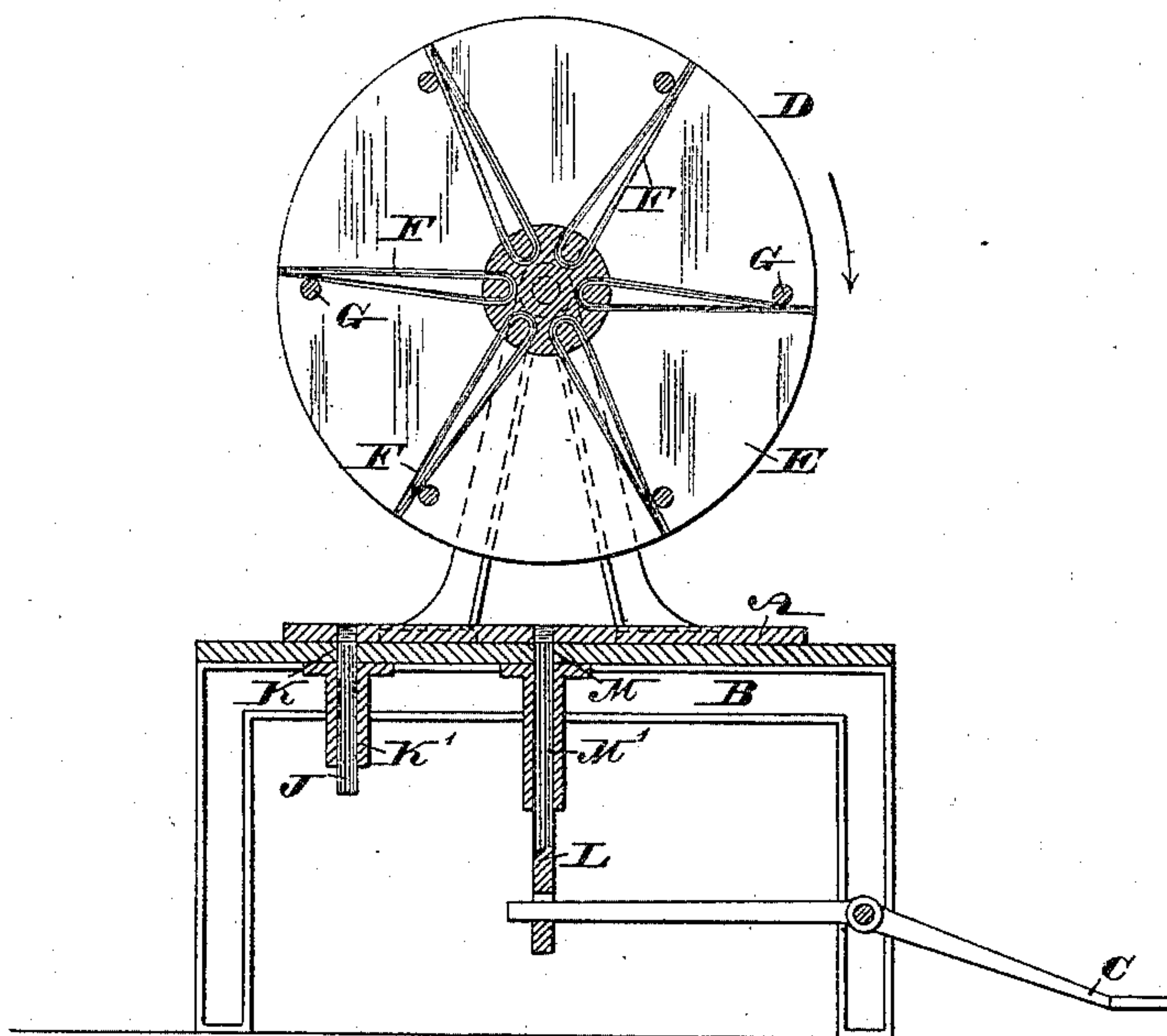


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN PFEIFER, OF PHILADELPHIA, PENNSYLVANIA.

APPARATUS FOR SCOURING, CLEANSING, AND POLISHING METAL, &c.

SPECIFICATION forming part of Letters Patent No. 395,583, dated January 1, 1889.

Application filed July 14, 1887. Serial No. 244,293. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN PFEIFER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Apparatus for Scouring or Cleansing Metal, &c., which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an apparatus for scouring or cleansing metal, &c., embodying a brush with means for preventing the material employed as the brush fiber from being broken, and other features, as will be hereinafter set forth and claimed.

Figure 1 represents a front view of an apparatus for scouring or cleansing metal, &c., embodying my invention. Fig. 2 represents a longitudinal vertical section thereof.

Similar letters of reference indicate corresponding parts in the two figures.

Referring to the drawings, A represents a rising and falling table, which is guided on a stand, B, and having connected with it a treadle, C, whose axis is on said stand.

Mounted above the table A is a rotary brush, D, which is formed of end pieces, E, having a connecting drum or hub, E', to which latter is secured the brush material F. The bars G are secured at their ends to the end pieces, E, and are placed back of the outer ends of the brush material F, the latter being formed of strips of steel or other material suitable for scouring purposes. The axle of the brush D has secured to it a pulley, H, attached to it for rotating the same.

The operation is as follows: Power is applied to the brush D, and the metal, &c., to be scoured placed upon the table A. The treadle is now operated, whereby the metal is raised and subjected to the action of the brush D,

the effect of which is the scouring of the same in a rapid and efficient manner. The treadle is then let go, whereby the table descends and the metal, &c., may be removed therefrom. The strain on the brush material is severe, so that it is liable to bend and break; but this is prevented by the bars or rods G, which sustain the brush at its back, especially near the outer ends, without affecting the proper action of the same on the metal, &c.

In order to guide the table true in its motions, it has secured to it the depending pin J, which passes freely through an opening, K, and boss K'. The rod L, which is connected with the treadle and table A, is also passed freely through an opening, M, and boss M', said openings being in the top or table of the stand and said bosses depending therefrom.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A stand, a rising and falling table mounted on said stand, and a treadle connected with said table, in combination with a brush secured to a rotary axle which is mounted on said stand above said table and provided with cross-bars back of the brush material, forming together an improvement in apparatus for scouring and cleaning metal, as stated.

2. An apparatus for cleansing metal, consisting of the rotary brush D, journaled in bearings on the stand B, the latter having the bosses M' and K', the table A on said stand and having the rod L and pin J, and the treadle C, secured to said rod L, said parts being combined substantially as described.

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Witnesses:

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