

No. 864,922.

PATENTED SEPT. 3, 1907.

J. SALTIEL.
WIRE BRUSH.

APPLICATION FILED NOV. 11, 1905.

Fig. 1

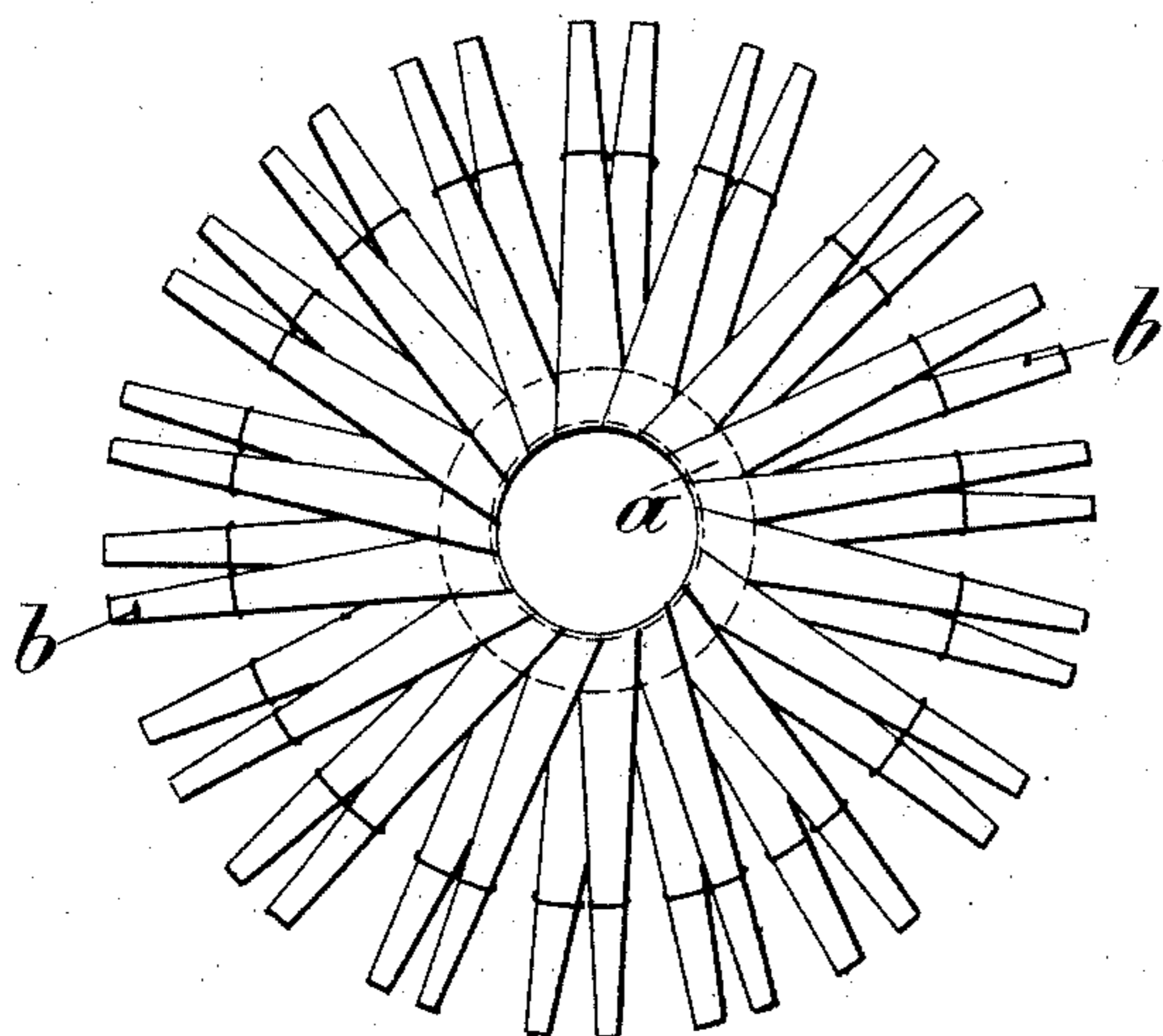


Fig. 2

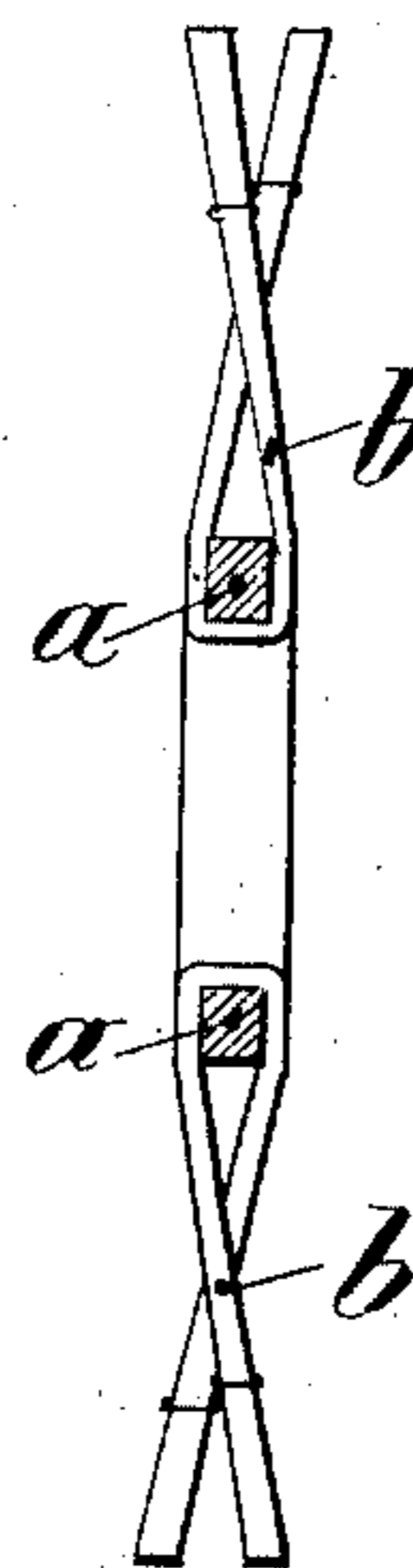
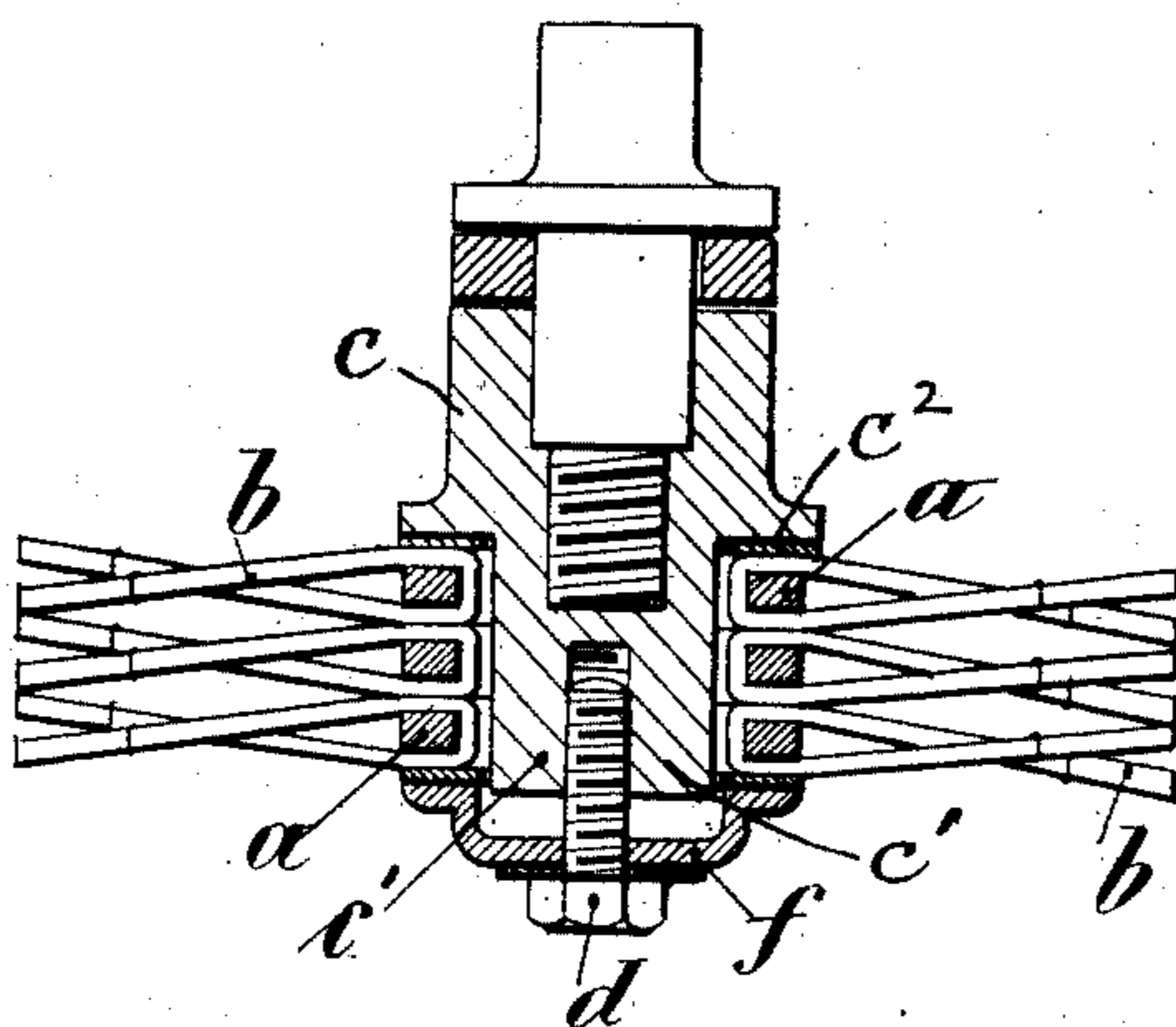


Fig. 3



Witnesses.

W. H. Boulton
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UNITED STATES PATENT OFFICE.

JOSEF SALTIEL, OF VIENNA, AUSTRIA-HUNGARY.

WIRE BRUSH.

No. 864,922.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed November 11, 1905. Serial No. 286,934.

To all whom it may concern:

Be it known that I, JOSEF SALTIEL, foreman, a citizen of the Empire of Austria, residing at Vienna, Austria-Hungary, have invented certain new and useful Improvements in Wire Brushes, of which the following is a specification, reference being had therein to the accompanying drawing.

The present invention relates to annular steel wire brushes intended mainly for cleaning castings and in the construction of which brushes, bundles of wire are employed which are bent or looped and mounted on rings and the latter passed over a mandrel upon which they are pressed together.

In the present invention I pass the wire bundles over flat rings of entirely uniform cross section, so that upon the superposition and subsequent pressure one against the other of the flat rings the wire bundles situated between the sides of these rings are firmly gripped, so that it is impossible for single wires to fall out.

In Figures 1 and 2 of the accompanying drawing a brush ring in accordance with this invention is illustrated in front elevation and in section, while Fig. 3 represents the assemblage of a number of such rings to form a cylindrical brush.

As shown in Figs. 1 and 2, each of the separate brush rings of the cylindrical brush shown in Fig. 3 consists of a ring *a* of quadrilateral or rectangular cross section which engages with a series of wires *b*, each of the wires being bent so as to form a loop or bight within which the ring engages, the radially-directed arms of each wire

crossing each other. In order to form a cylindrical brush a number of these brush rings are passed upon a core *c* having a reduced cylindrical portion *c'* forming a shoulder *c''* and corresponding in circumference to the free space left inside the rings, and by means of a washer *f* adapted to be tightened up by a screw *d* they are pressed against the shoulder of the core *c*.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:

In a brush, the combination with a core having a reduced annular portion *c*, forming a shoulder, of a plurality of rings mounted side by side upon said reduced portion of the core, each of said rings being rectangular in cross-section, a plurality of wires carried by each ring and extending radially therefrom, each of said wires being bent at one end to form a bight or loop through which passes the respective supporting ring, that portion of each wire which forms the loop lying upon and projecting above the outer faces of the rings whereby the looped portions of the wires of the various rings will lie in frictional contact with each other and the free ends of each of the wires being crossed, a washer bearing against the wires of the outermost ring and a screw working in the reduced portion of the core and adapted to clamp the washer tightly against the wires of said outermost ring.

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

JOSEF SALTIEL.

Witnesses:

FRIEDRICH BINDER,
ALVISTO S. HOGUE.