

No. 713,080.

Patented Nov. 11, 1902.

F. G. FARNHAM.

ROTARY BRUSH.

(Application filed Feb. 19, 1902.)

(No Model.)

Fig. 1.

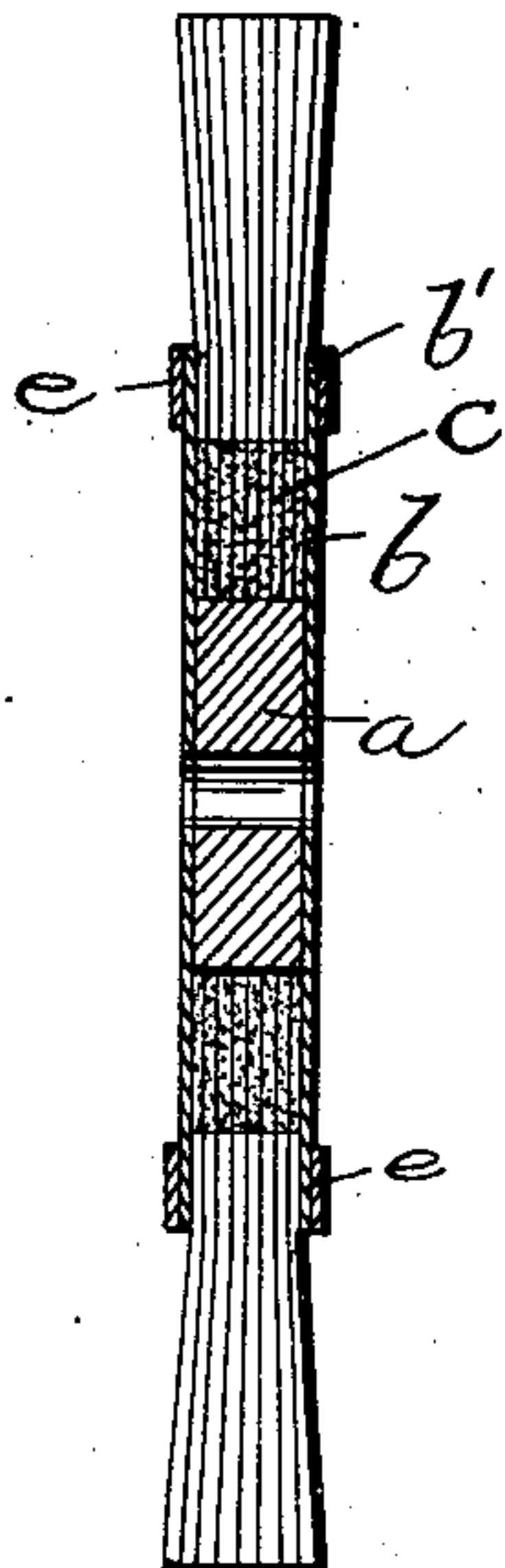


Fig. 2.

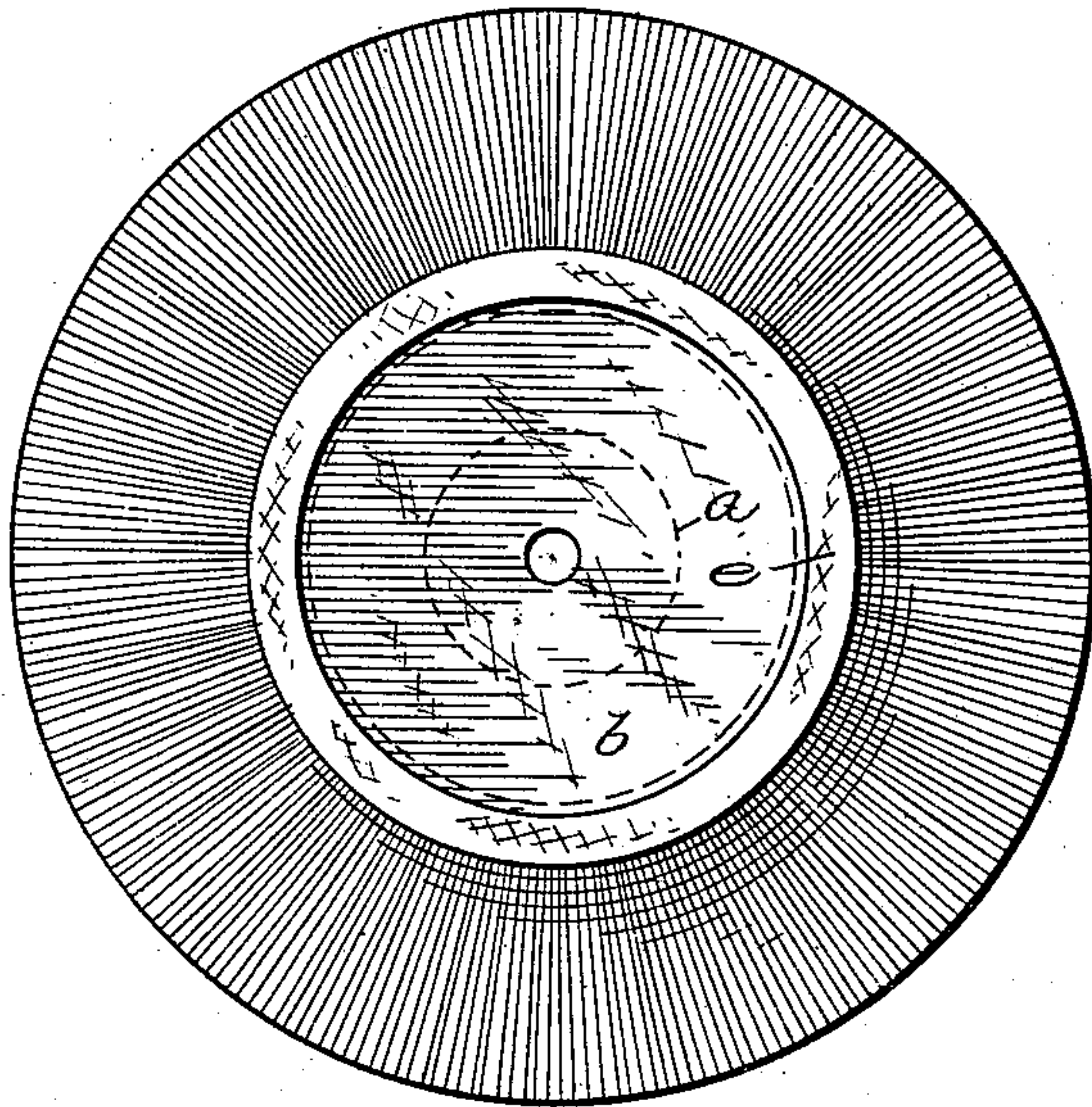


Fig. 4.

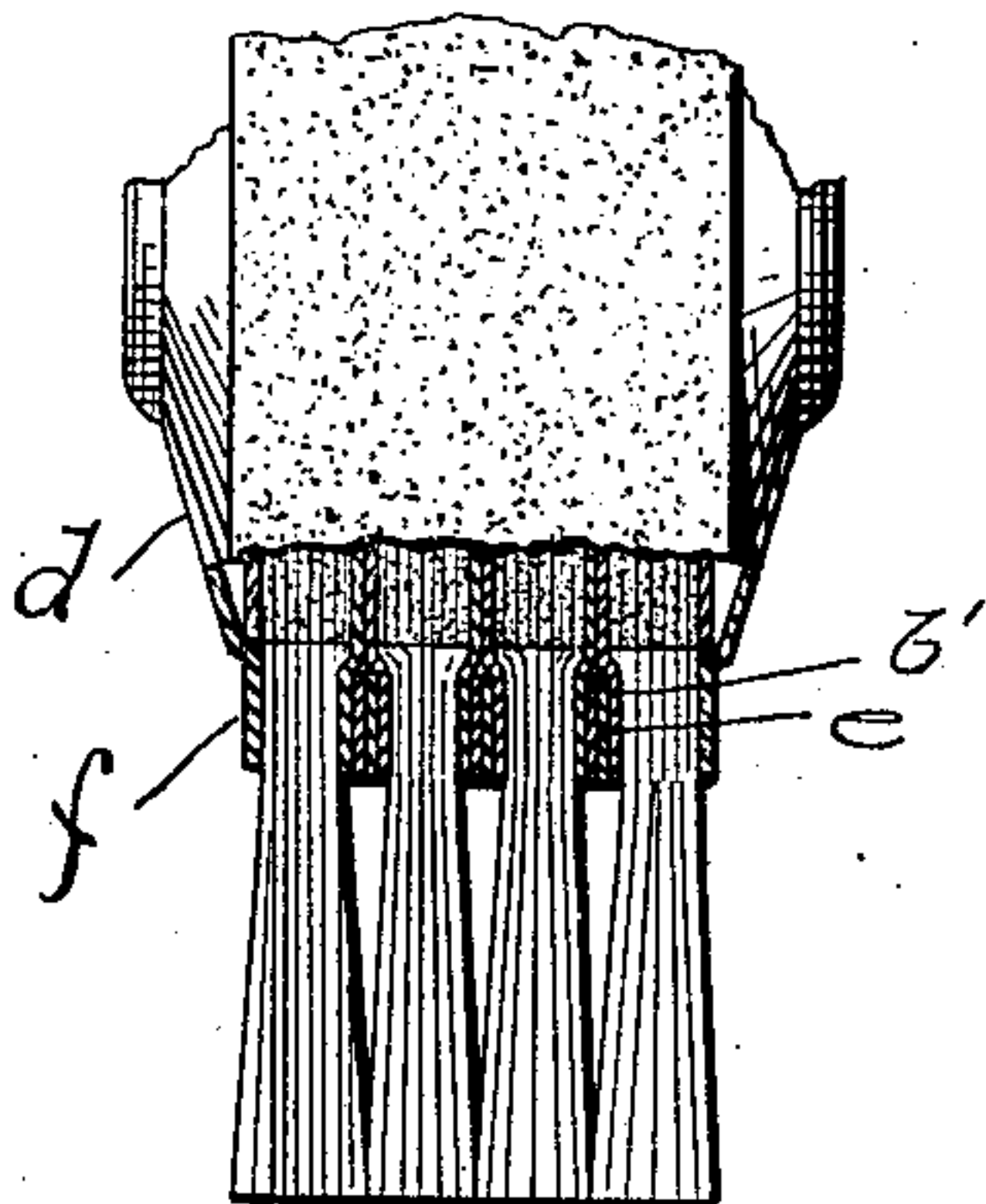
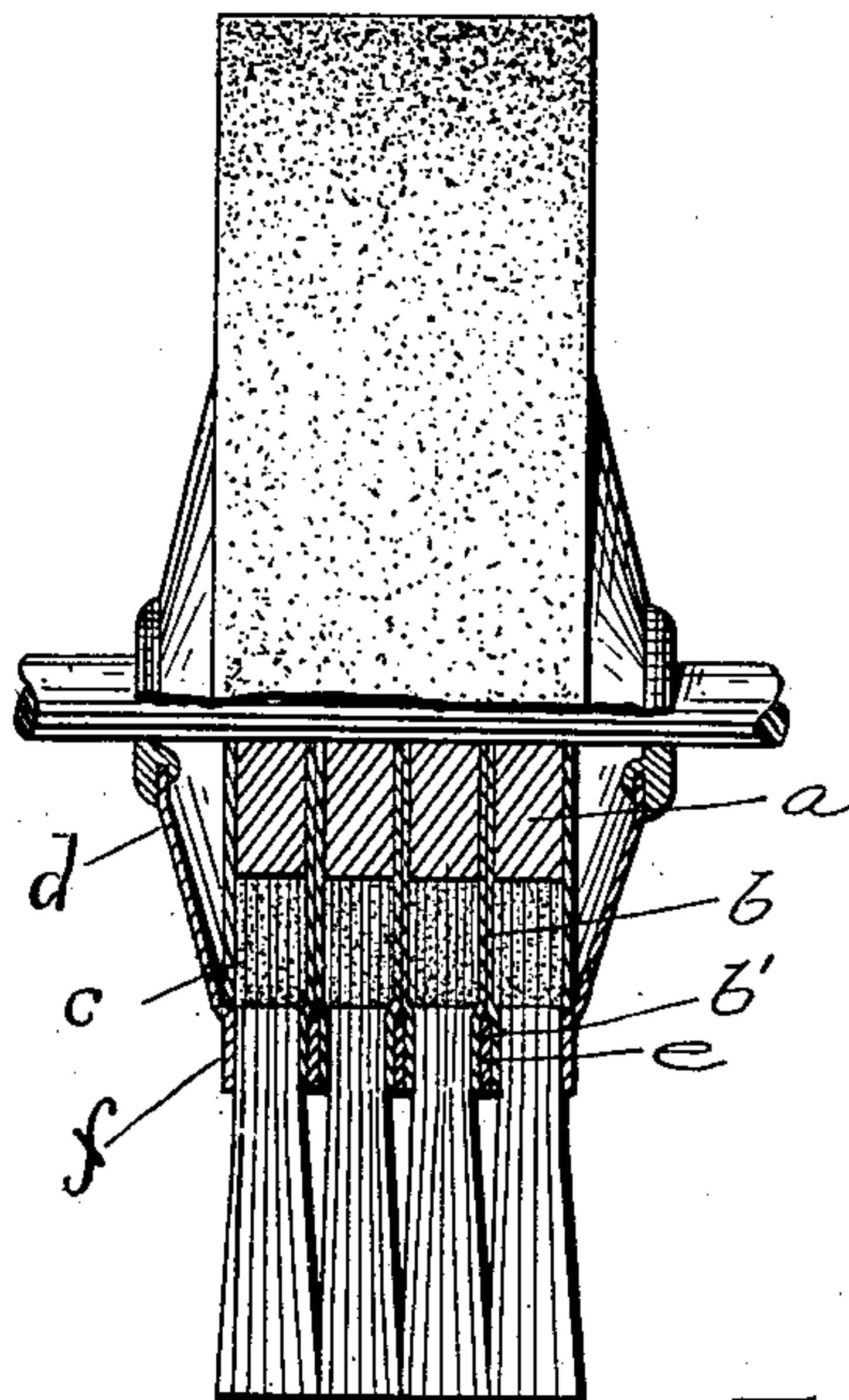


Fig. 3.



Attest:
Edw. L. Reed.
L. B. Middleton

Inventor.
Frank G. Farnham.
By: [Signature]

Atty

UNITED STATES PATENT OFFICE.

FRANK GUNN FARNHAM, OF HONESDALE, PENNSYLVANIA.

ROTARY BRUSH.

SPECIFICATION forming part of Letters Patent No. 713,080, dated November 11, 1902.

Application filed February 19, 1902. Serial No. 94,832. (No model.)

To all whom it may concern:

Be it known that I, FRANK GUNN FARNHAM, a citizen of the United States, residing at Honesdale, Pennsylvania, have invented certain new and useful Improvements in Rotary Brushes, of which the following is a specification.

My invention relates to rotary brushes, and is designed as an improvement upon the forms of brush patented by me under date of April 30, 1901, No. 673,119, and July 2, 1901, No. 677,502. In the brush described in the latter patent I have shown clamping-disks having edges of peculiar form for compressing the brush material outside of the cemented portion in order to prevent the article operated upon being forced down far enough to cut off the brush material where it joins or is embedded in the cemented portion of the brush, and in that form of brush I have found that the clamping-disks alone will not sufficiently compress the fibers on a wide brush. If the overturned edges of the flanges are extended inwardly sufficient to compress the brush material throughout the whole width of the brush, the result is a material narrowing of the working face, and it is to overcome this objection that I have devised the means which form the subject-matter of the present application.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a sectional view of a brush-section. Fig. 2 is a side elevation of the same, and Fig. 3 is a part section and part elevation of a complete brush. Fig. 4 is a detail view of a modification in which two spacing-rings for each section are used.

In the drawings the letter *a* indicates the core, *b* the cloth disks secured on each side thereof, and *c* the cemented portions of the brush material confined between the circumferential edges of the disks *d*, substantially in the manner described in my patents referred to. In the present construction I extend the edges of the cloth disks out beyond the cemented portions, as indicated at *b'*, and to this extended edge on one or both sides of

the brush material I secure an annular ring *e*, and each of these rings may be of any desired thickness, according to the requirements of the brush, and may be made of any suitable material, canvas being preferred. I have shown rings on both sides in Fig. 4, while on one side alone in Fig. 3, either being used according to requirements.

When the plurality of the sections are assembled, as indicated in Figs. 3 and 4, it will be seen that these rings should come opposite each other and also directly opposite the compressing flanges or shoulders *f* of the clamping-disks. The result of this is that the brush material is compressed equally throughout the entire width of the brush and to a sufficient degree to prevent any article being forced close to the cemented portions of the brush material. At the same time I get the desired width of face of the brush.

The sections may be secured together in any suitable manner—as, for instance, by nails or clamping-screws, as in my patent aforesaid.

Having thus described my invention, what I claim is—

1. A rotary brush comprising a plurality of sections each section consisting of a core and cloth disks with brush material cemented between said cloth disks, compressing-rings secured to the outer edges of the disks opposite the non-cemented portions of the brush material and means for clamping said sections together, substantially as described.

2. A rotary brush comprising a plurality of sections, including brush material suitably secured, clamping-rings interposed between the brush material of said sections and clamping-disks for clamping said sections together, said clamping-disks having edges or shoulders located in line with the compressing-rings, substantially as described.

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

FRANK GUNN FARNHAM.

Witnesses:

ROBT. A. SMITH,
C. SALMON.