

I. H. SPENCER.

CLEANING TOOL.

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969,913.

Patented Sept. 13, 1910.

Fig. 1.

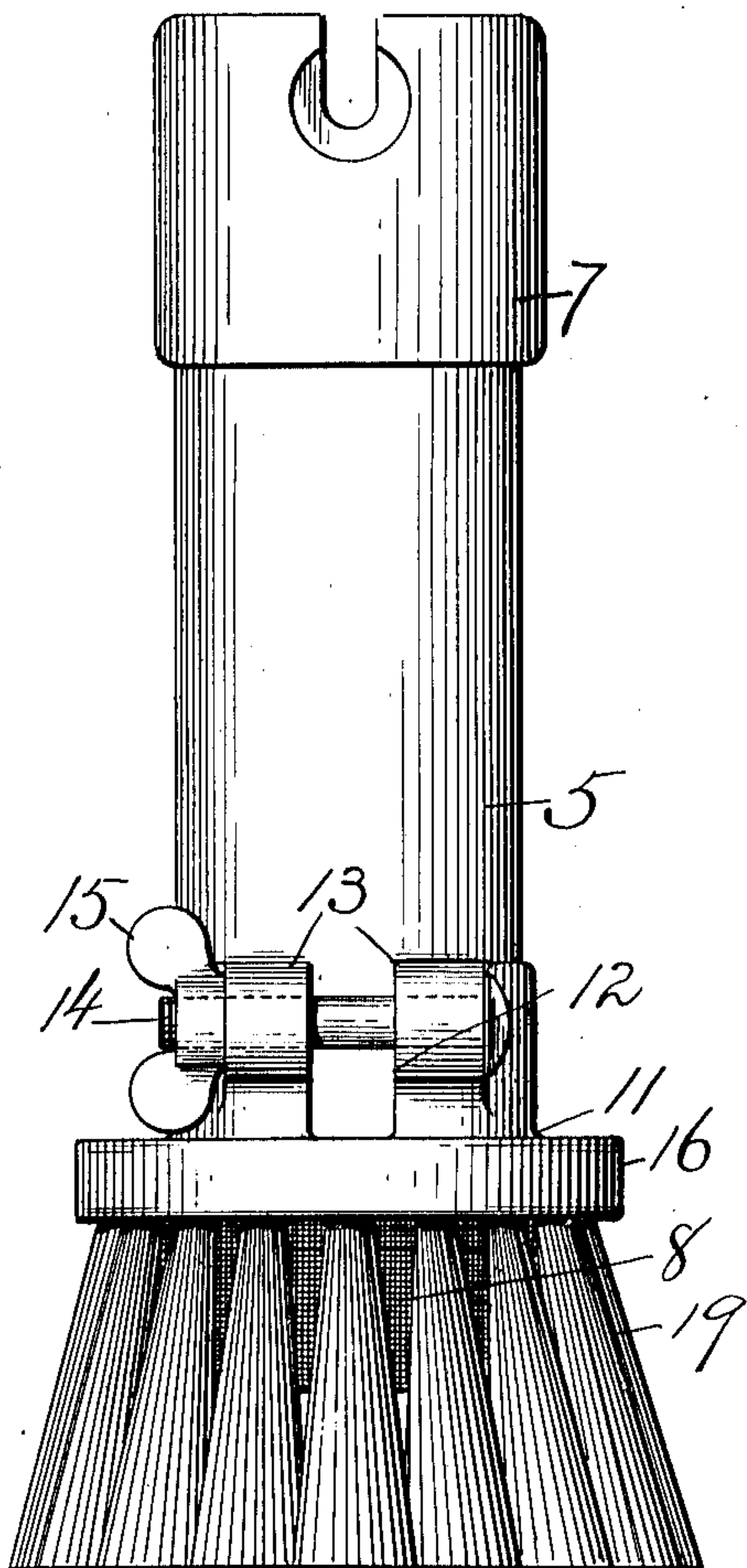


Fig. 2.

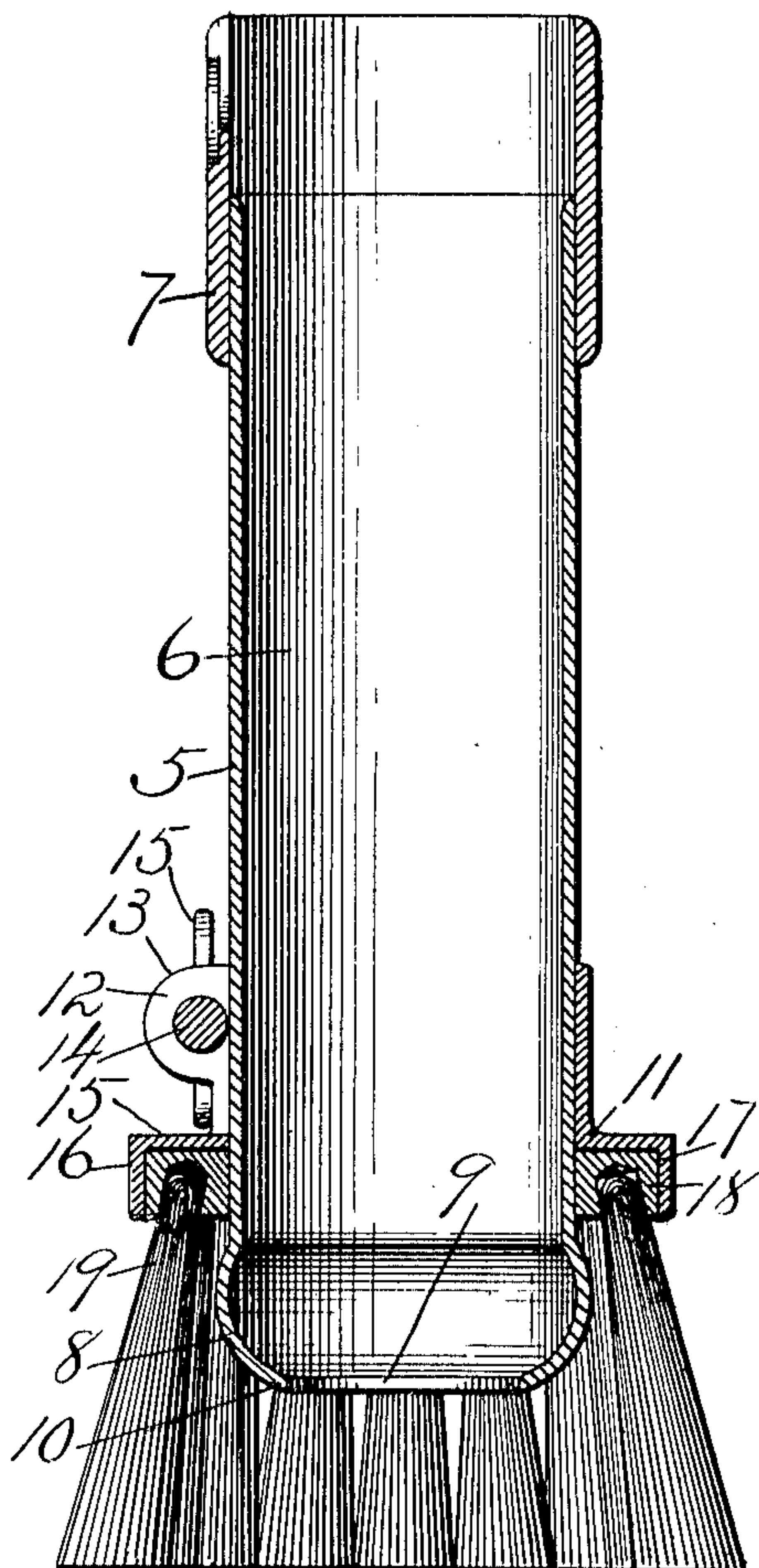
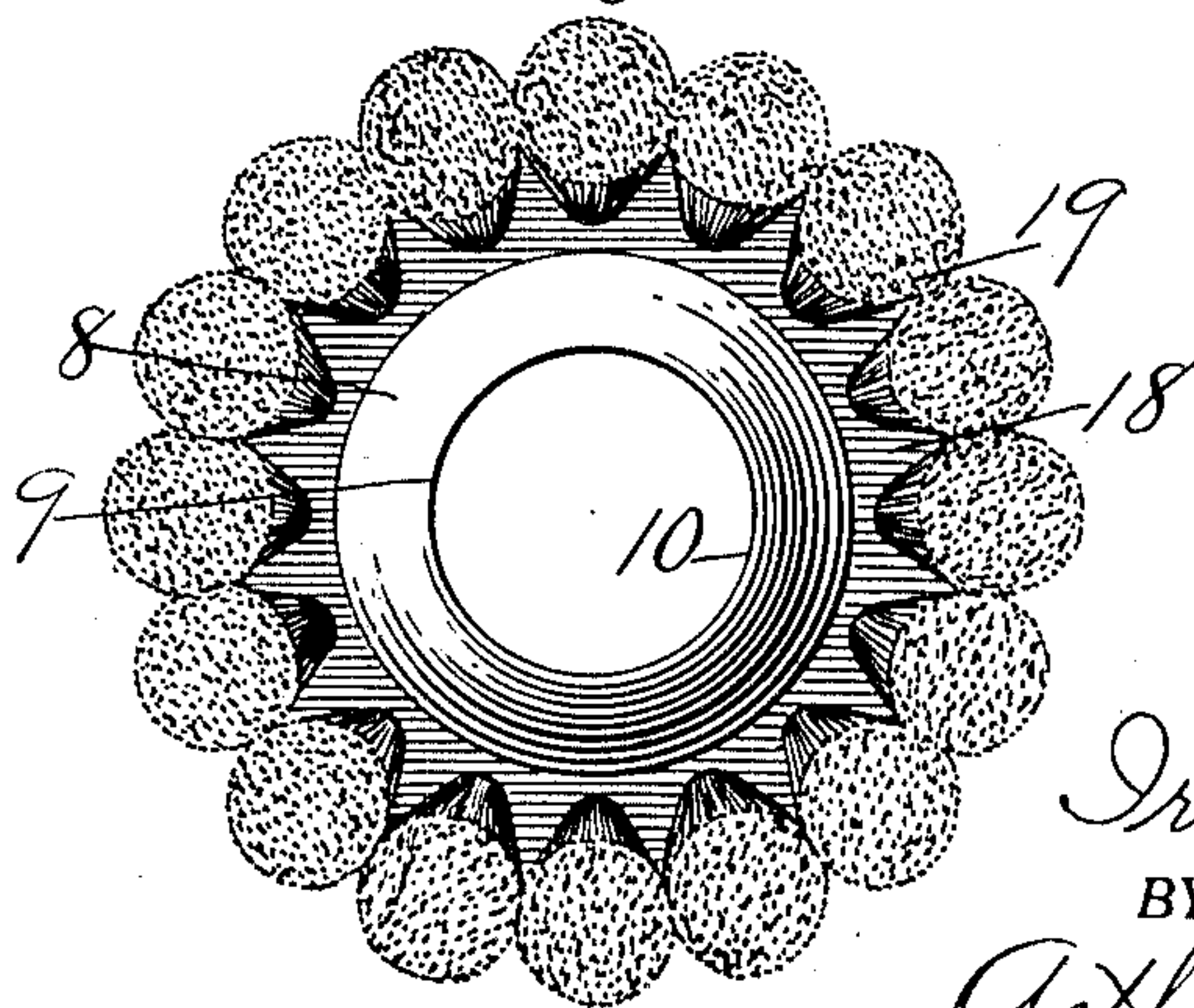


Fig. 3.



WITNESSES:

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CLEANING-TOOL.

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To all whom it may concern:

Be it known that I, IRA H. SPENCER, a citizen of the United States, and a resident of Hartford, in the county of Hartford and State of Connecticut, have invented a new and Improved Cleaning-Tool, of which the following is a specification.

My invention relates to that class of cleaning tools used more especially in pneumatic cleaning, and the object of my invention is to provide a tool of this class having novel features of advantage and utility. A form of device in the use of which this object may be attained is illustrated in the accompanying drawings, in which—

Figure 1 is a view in side elevation of a cleaning tool embodying my invention. Fig. 2 is a view of the device in central section lengthwise of the handle. Fig. 3 is a bottom view of the tool.

I have selected for the purpose of illustration and description herein a hand tool commonly used for pneumatic cleaning purposes, as one which embodies the features of my invention.

The numeral 5 denotes a handle or stock constructed of any suitable material, of proper length and of any desired form, preferably round in cross-section, as illustrated herein. This handle or stock is tubular, thus providing a passage 6 for the flow of fluid, as air. One end of this handle or stock has a sleeve 7 suitably constructed for attachment of a hose, pipe or like part, through which a current of air may be created when connected to a device employed for such purpose.

Any desired form of attachment, preferably removable, may be employed for the hose or pipe. The stock is formed, preferably at the end, into a cleaning tip 8 having a mouth or intake opening 9 communicating with the passage 6. In the preferred construction the stock and cleaning tip are formed from comparatively thin metal tubing, the end of which is enlarged as by spinning into a swell or bulb having lips 10 somewhat contracted to form the mouth 9. A brush support 11 is mounted upon the stock 5, this support, in the form of the invention herein shown, including a sleeve fitting the stock to slide thereon. This sleeve is split as at 12 for the purpose of providing a clamp to hold the sleeve against movement on the stock. In the form of clamping

means herein shown ears 13 are formed upon opposite sides of the slot, a bolt 14 being located in openings through the ears and a nut 15 being employed to clamp the sleeve upon the stock. The end of the sleeve is formed into an enlargement or head 15 having a flange 16 providing a recess 17 in which a brush base 18 is secured. A brush 19 is secured to the head by any suitable means.

As before stated, the tool is especially designed for hand work, as for cleaning upholstered furniture, cushions, hangings, draperies, walls or the like. Following this method of cleaning it is found desirable in many instances to employ a brush for certain purposes; often the use of the brush will not be desired, and in many places, as in crevices, corners, recesses and like places in upholstered furniture, a brush can not be employed. In order to accomplish the work rapidly it is important that a single tool be employed to as great an extent as possible. The tool herein shown and described accomplishes this end. When the brush is used the entire dust and dirt stirred up thereby is immediately removed by the action of the air current through the mouth 9 and passage 6. When it is desired to dispense with the use of the brush the thumb nut 15 is loosened and the brush quickly moved along the handle away from the cleaning tip 8, and there secured so that the cleaning tip may be freely used without obstruction from the brush. The swell at the end of the stock prevents accidental displacement of the brush. The brush may be removed by removing the sleeve 7 and passing the brush off the end of the handle.

I claim:—

1. A handle having an intake opening and means for attachment of a hose, a brush movably supported upon the handle, and means for holding the brush upon the handle with the working face of the brush above the plane of the intake opening.

2. A tubular handle having an intake opening at its end and means for attachment of a hose at the opposite end, a clamp sleeve slidable along the handle, means for clamping the sleeve, and a brush secured to the sleeve.

3. A tubular handle having an intake opening at its end and means for attachment of a hose at the opposite end, a clamp

sleeve slidable along the handle and having a recessed head at its end, a brush located within said recess and arranged to surround said intake opening, and means for clamping the brush in position on the handle.

4. A tubular handle having means for attachment of a hose at one end and an enlargement forming a cleaning tip with an intake opening at the opposite end, a clamp sleeve slidably mounted upon the handle, a brush secured to said sleeve and arranged to surround said intake opening, and means for clamping the sleeve in position.

5. A tubular handle having means for attachment of a hose at one end and an enlargement forming a cleaning tip with an intake opening at the opposite end, a sleeve split lengthwise and slidably mounted upon said handle, means for compressing the sleeve to clamp it upon the handle, a re-

cessed head formed upon the sleeve, and a brush secured within said recess and arranged to surround said cleaning tip.

6. A handle having means for attachment of a hose, the end of said handle being formed into a cleaning tip, a brush movably located on the handle, and means for holding the brush with the tip inclosed therein or projecting therefrom.

7. A tubular handle having means for attachment of a hose and with its end formed into a cleaning tip, a brush slidably mounted upon the handle, and means for securing the brush against movement upon the handle.

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Witnesses:

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