

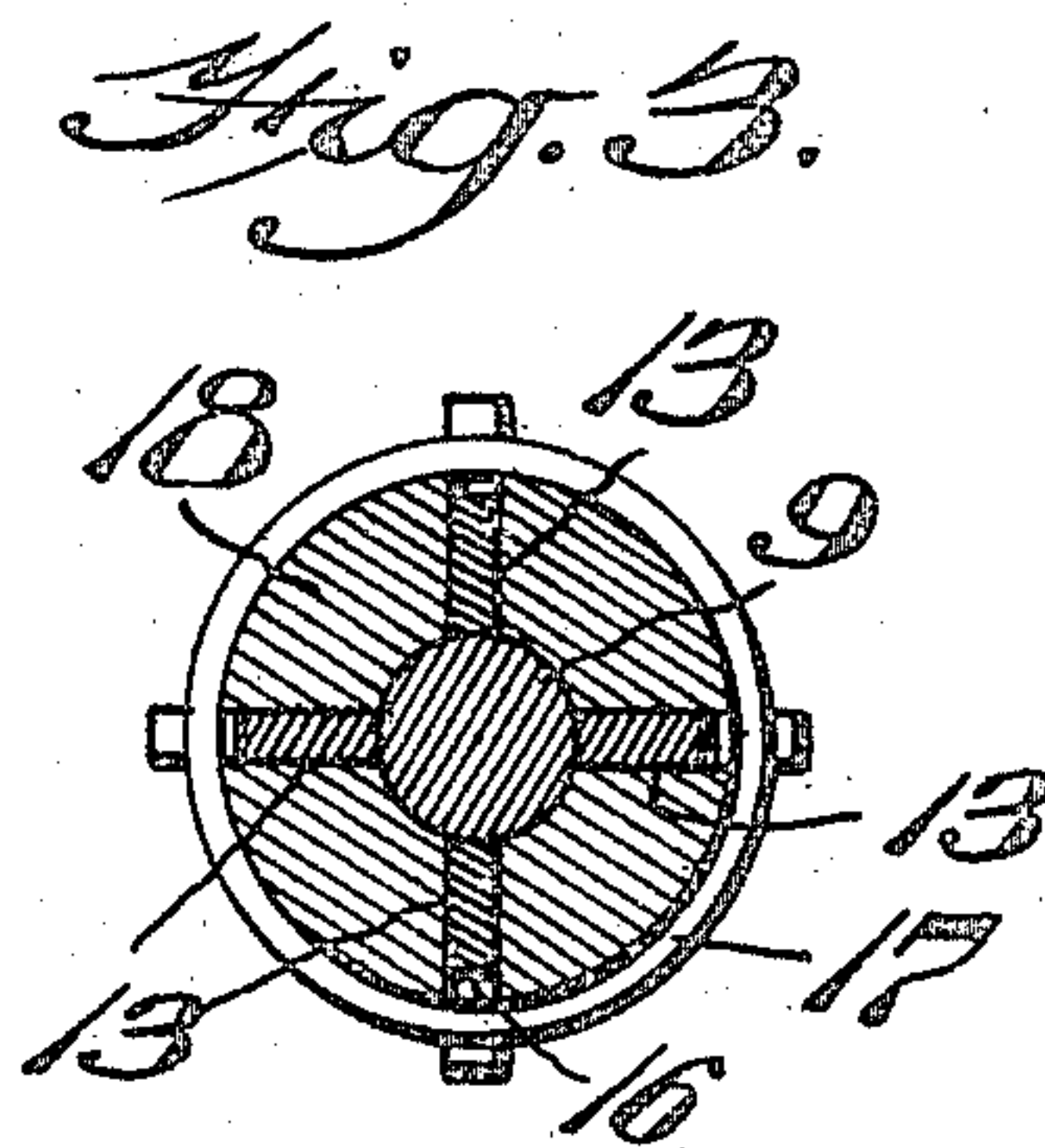
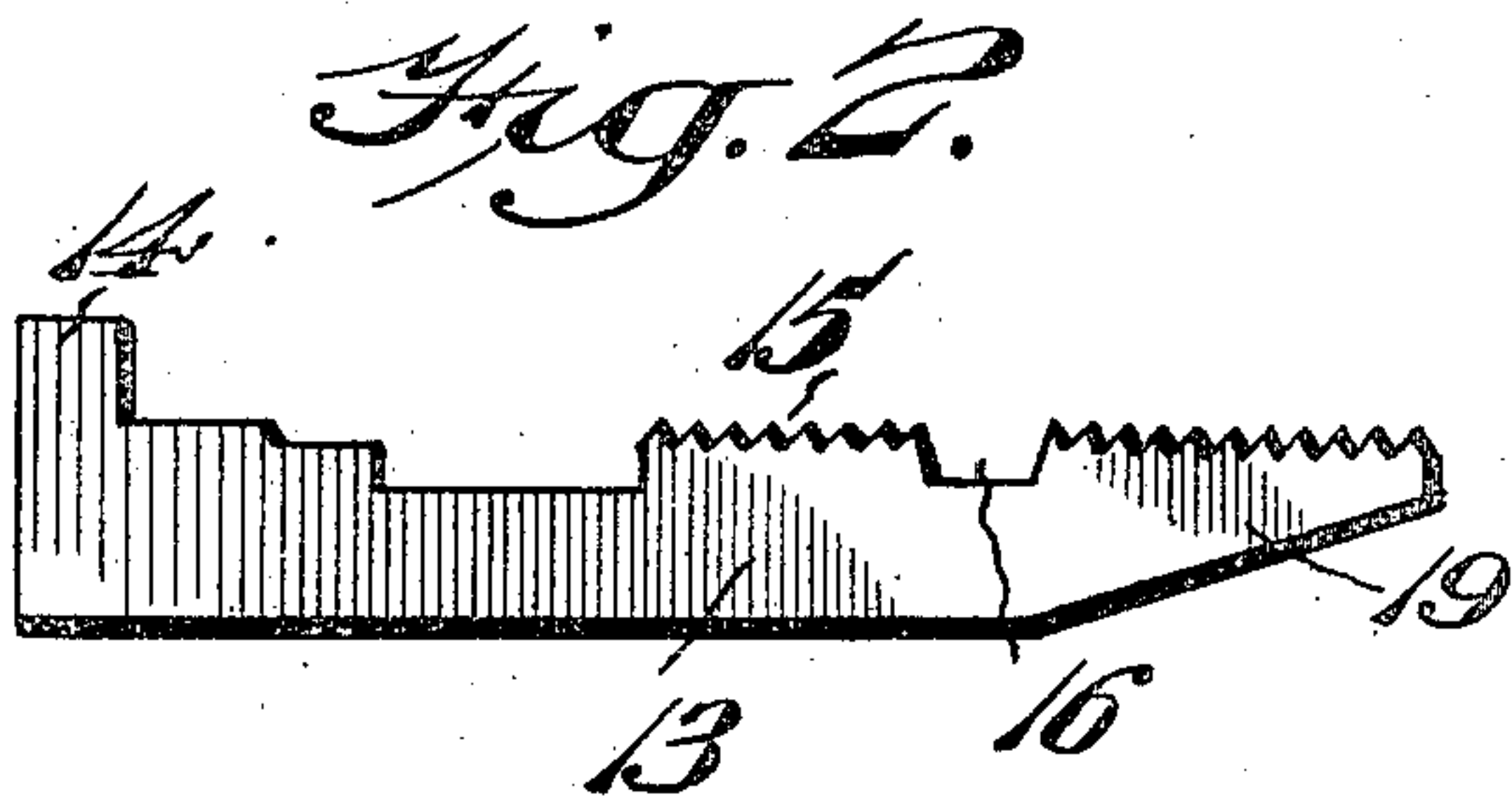
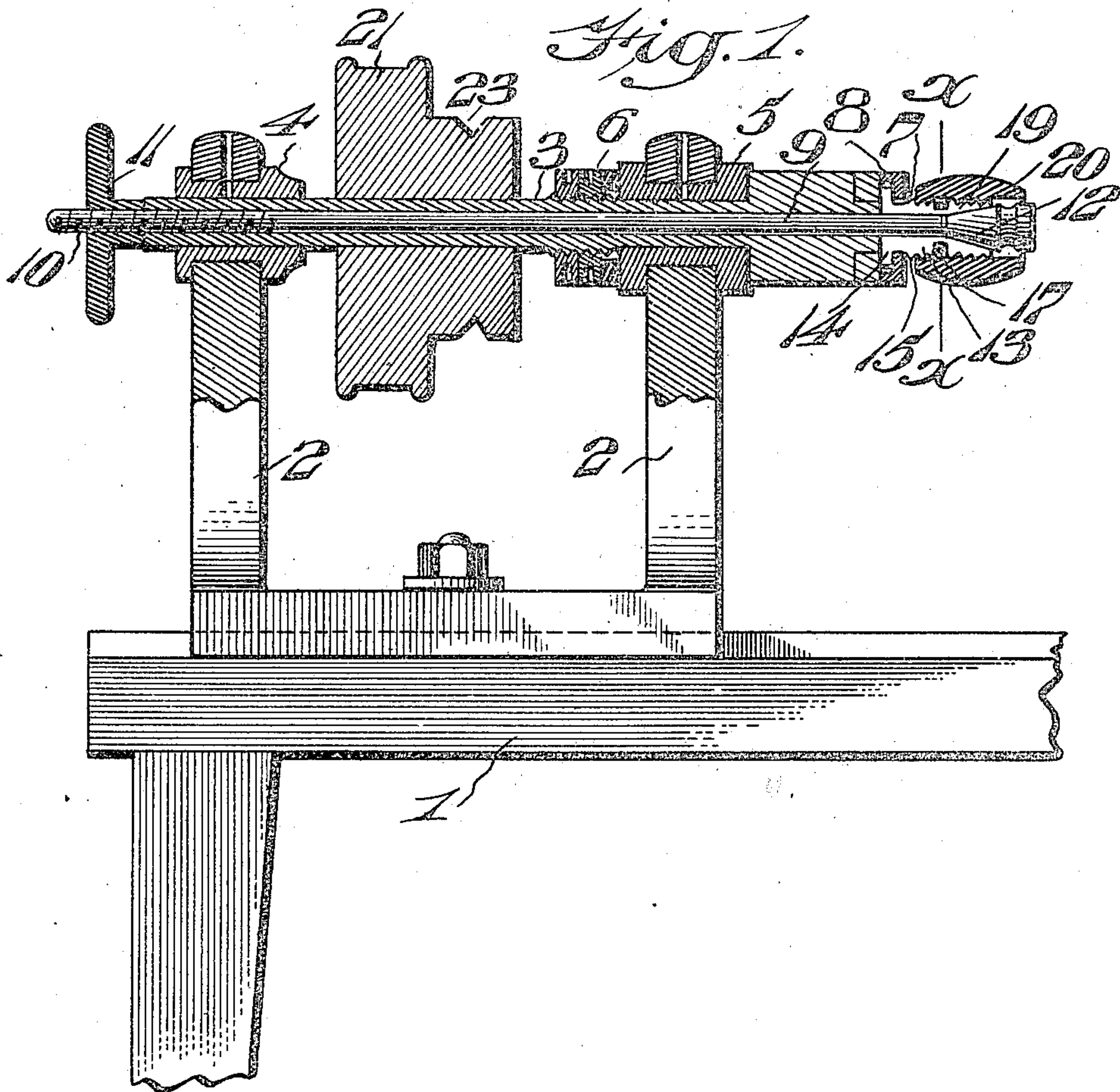
J. B. HALL.

CHUCK.

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948,685.

Patented Feb. 8, 1910.



WITNESSES

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CHUCK.

948,685.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN B. HALL, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Chuck, of which the following is a specification.

My invention relates to a new and useful cutting and shaping machine and consists of means for locking and holding the article to be acted upon in proper position for receiving the cutting means.

It further consists of a new and novel cutting means with means for bringing the same into contact with and removing the same from contact with the object.

It further consists of novel features of construction all as will be hereinafter fully set forth.

Figure 1 is a sectional view of a device embodying my invention. Fig. 2 is an elevation of one of the jaws, detached. Fig. 3 is a sectional view on line $x-x$, Fig. 1.

Similar numerals of reference indicate corresponding parts in the figures.

I have found in practice that in shaping or cutting cylinders for various uses it is extremely difficult to properly hold and lock the same in position to receive the cutters. My invention is designed to overcome this defect and in the drawings, I have shown a construction which operates successfully but it will be evident that the arrangement of the parts may be varied and other instrumentalities may be employed which will come within the scope of my invention, and I do not therefore desire to be limited in every instance to the exact construction as herein shown and described but desire to make such changes as may be necessary.

My device is adapted for use on any material and for articles for any use but the same is more particularly adapted for making heads of shaving brushes, preferably of horn, and while I will describe the same for this purpose it will be understood that the device, as has been stated, can be used for any other purpose as desired.

Referring to the drawings, 1 designates the frame of the machine from which rise the standards or supports 2. Rotatively mounted in said supports is a shaft 3 which is preferably hollow and which has the bearings 4 and 5 mounted in the standards, suitable locking means 6, such as nuts, being in threaded engagement with the shaft 3

for taking up wear. One end of said shaft is provided with a flange 7 which may be integral with or connected to said shaft and in the present instance, I have shown the same as separate and suitably connected, said flange forming a suitable space or chamber 8 between it and the end of the shaft 3. Passing through said shaft is a rod 9 having the threads 10 on one end and with which the hand wheel 11 is in engagement for adjusting the position of the rod 9, while forming a part of or connection with said rod is the conical head 12 for purposes as will be hereinafter set forth.

13 designates jaws which are provided with the lugs or off-sets 14 which are adapted to be seated in the chamber 8 between the flange 7 and the end of the shaft 3, for holding said jaws in proper position, said jaws being provided with the teeth or serrations 15 and with the groove or recess 16 for the reception of a retaining device 17, such as a spring or ring, it being noted that between the jaws are the spacing blocks 18, as best seen in Fig. 5, in which I figure I have shown four jaws, although it will be evident that any desired number may be employed. The lower faces of the jaws are inclined as at 19 and are adapted to rest against or abut the conical head 12 of the rod 9 whereby it will be understood that when in their normal position the jaws are as seen in Fig. 3 but that when the rod 9 is moved to the left, in said figure, by proper actuation of the hand wheel 11 the head 12 will ride on the inclined faces 19 throwing out the end of the jaws, it being understood that the cylinder or article 20 to be acted upon is first placed upon the jaws, the same entering and being seated in the bore thereof, after which the hand wheel 11 is rotated to throw out the jaws to tightly grip or engage with the inner wall of the article 20 so that it will be firmly and securely held in position on the device.

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

1. In a device of the character described, a hollow rotatable shaft provided with an internal recess near its end, a plurality of jaws having flanges which lie within the recess, each jaw provided with external teeth, and a recess intermediate the toothed portion, spacers between the jaws, a ring lying in the recesses of the jaws and retaining

them and the spacers, and means passing through the shaft to internally engage the jaws and spread them.

2. In a device of the character described,
5 a hollow rotatable shaft provided with an internal recess near one end, a plurality of jaws having flanges which lie within the recess, each jaw provided with external teeth and an external additional notch to provide
10 room for a ring retainer, spacers between

the jaws, a retainer within the notches of the jaws holding them and the spacers, a rod passing through the shaft to engage the jaws and spread them, and means for adjusting said rod at the end of the shaft 15 opposite the recess.

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Witnesses:

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