

S. JENSEN.
PENCIL SHARPENER.
APPLICATION FILED APR. 3, 1909.

965,907.

Patented Aug. 2, 1910.

Fig. 1.

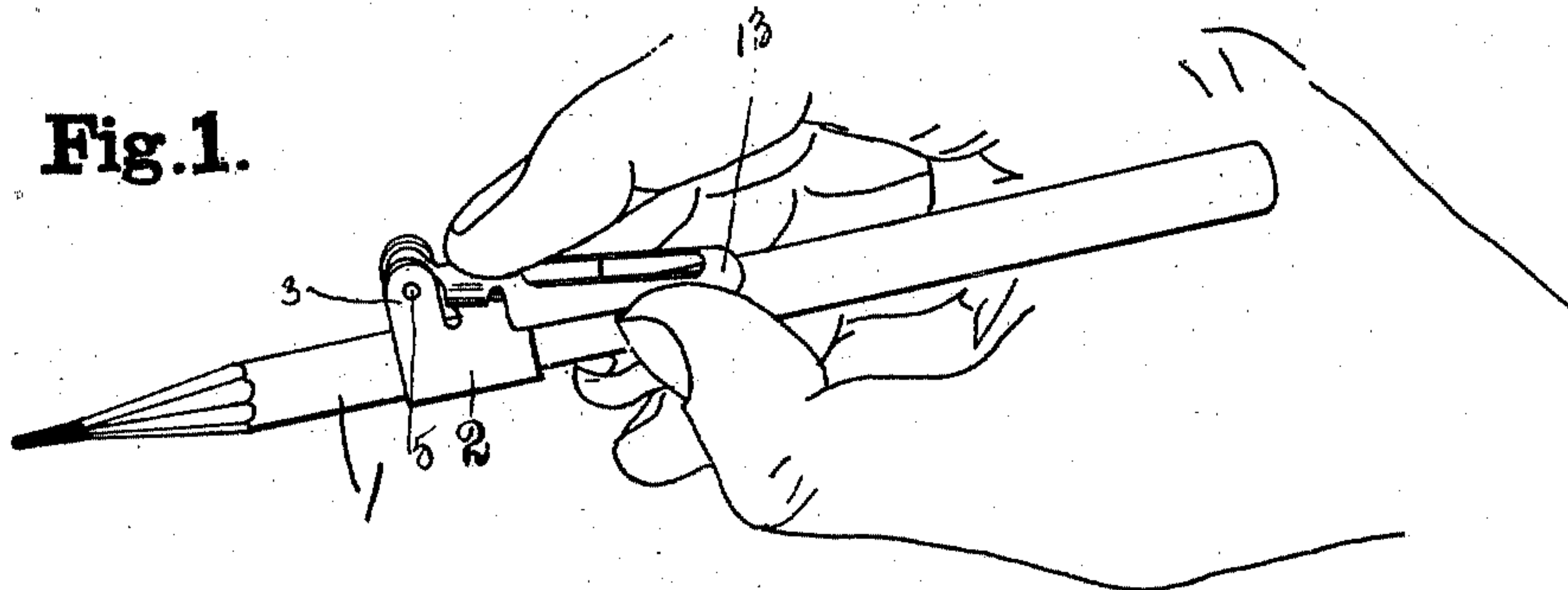


Fig. 2.

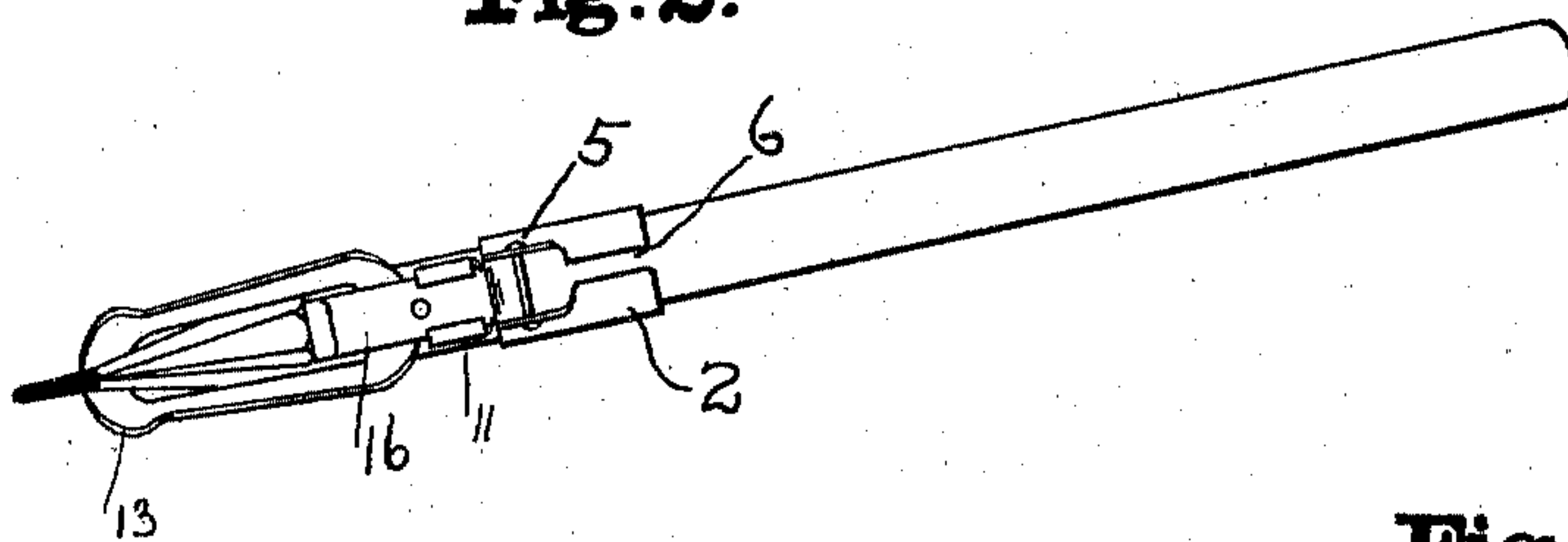


Fig. 4

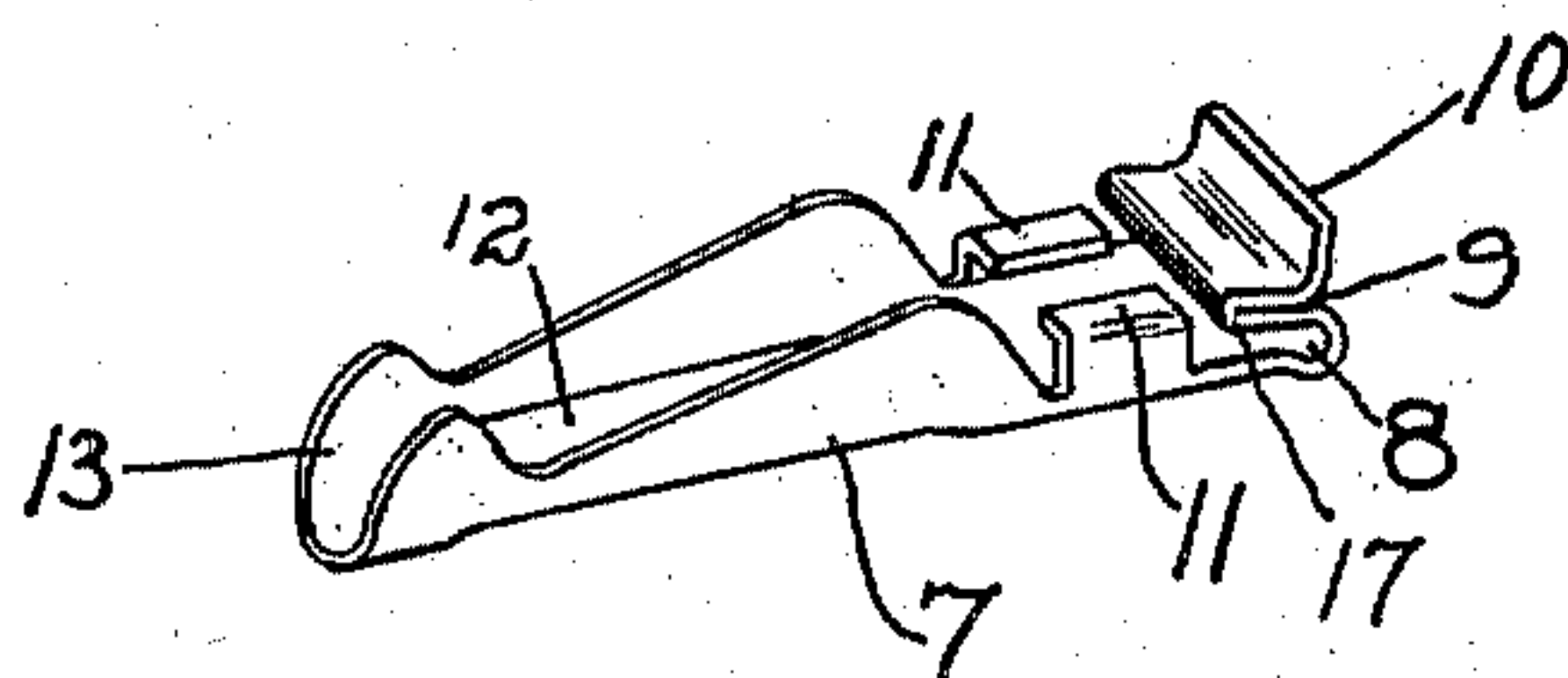


Fig. 3.

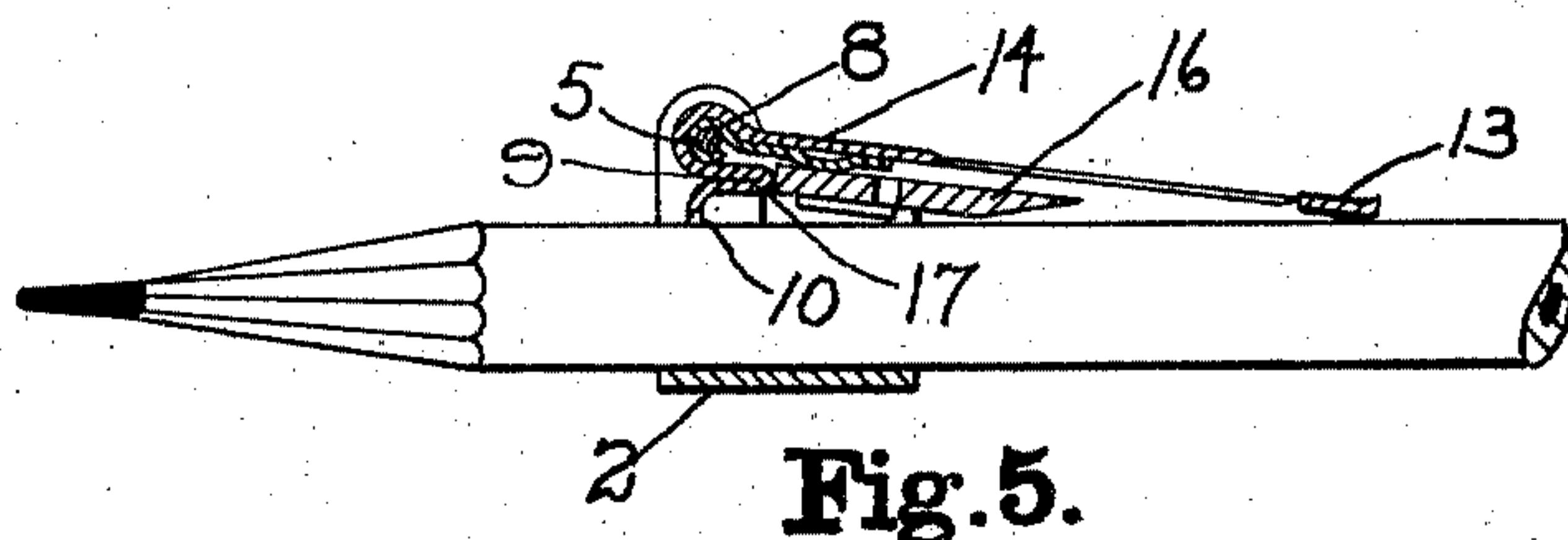
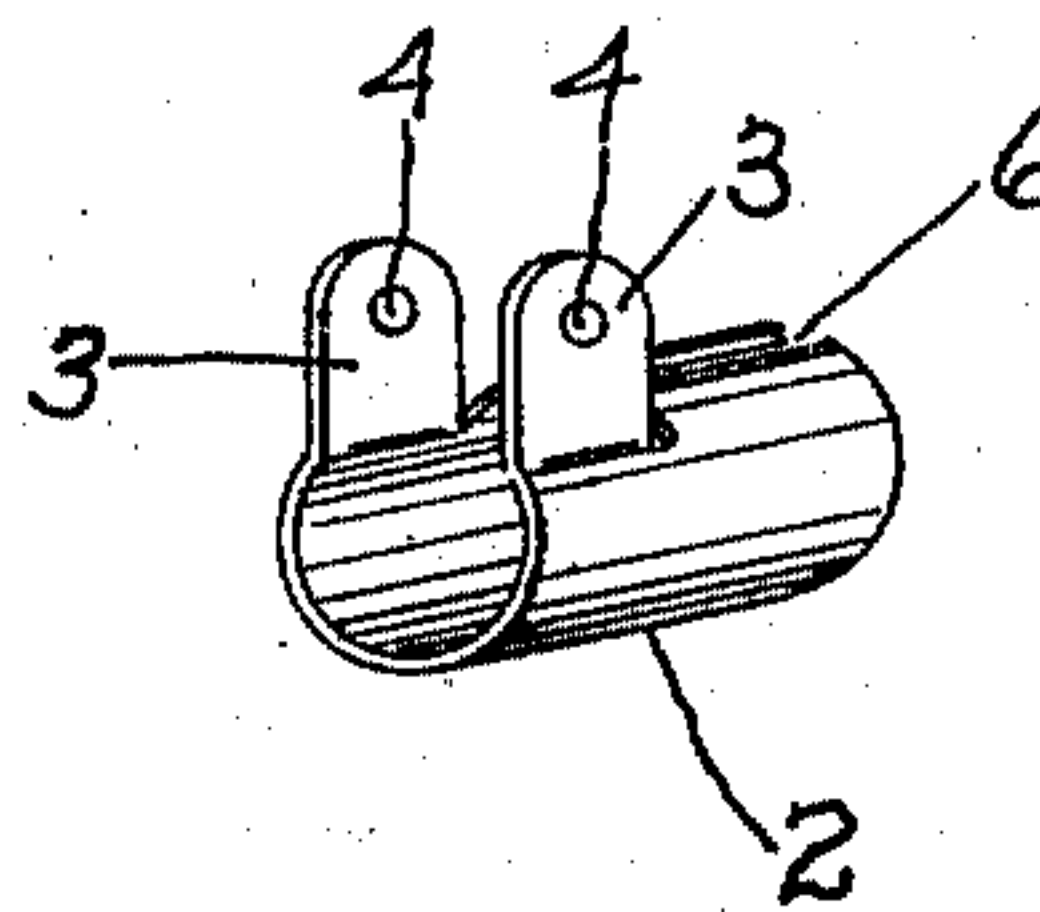


Fig. 5.

Fig. 6.

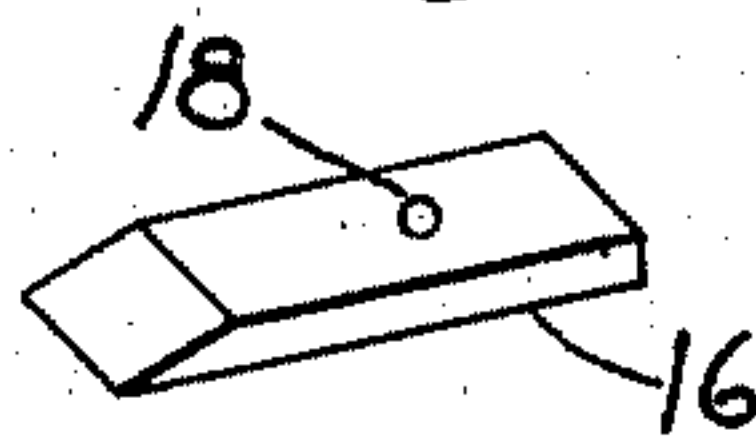
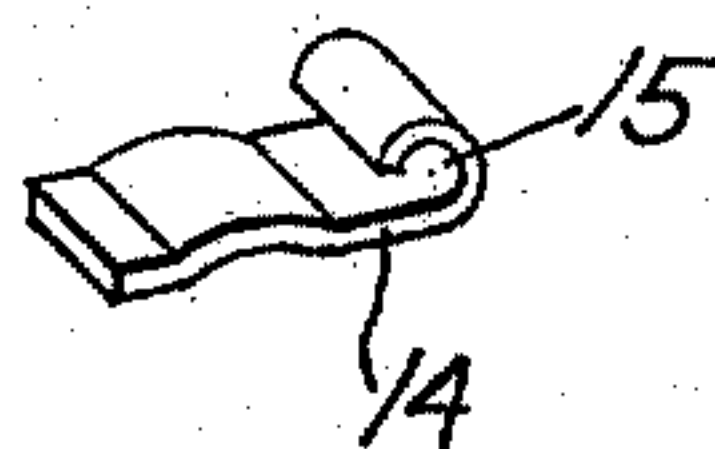


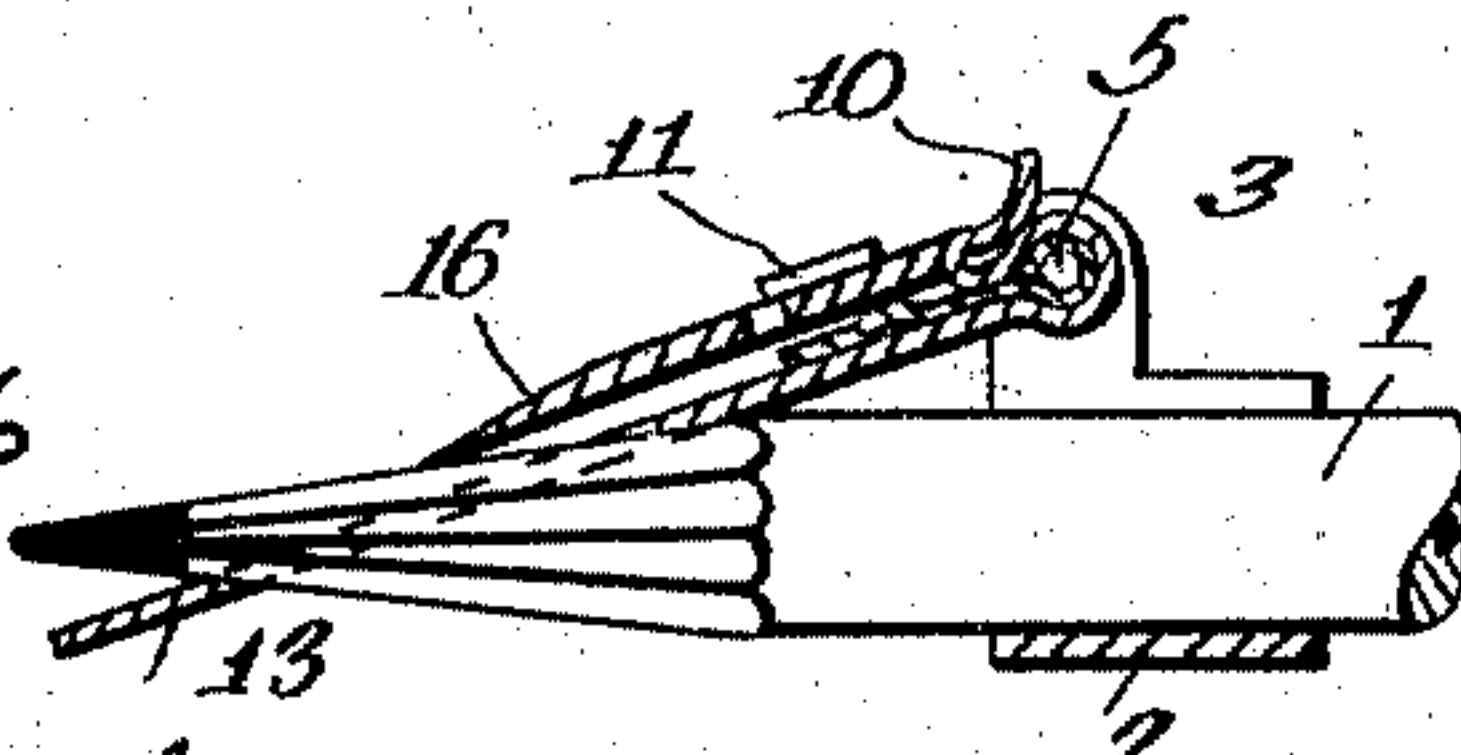
Fig. 7.



WITNESSES:

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Fig. 8.



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SOREN JENSEN, OF PROVIDENCE, RHODE ISLAND.

PENCIL-SHARPENER.

965,907.

Specification of Letters Patent.

Patented Aug. 2, 1910.

Application filed April 3, 1909. Serial No. 487,782.

To all whom it may concern:

Be it known that I, SOREN JENSEN, a citizen of the United States, residing at the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Pencil-Sharpeners, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention has for its purpose to provide a pencil sharpening device which is adapted to be attached to and carried on the pencil so as to be always ready for instant use.

Another feature of the device is that the knife blade carrying frame is adapted to be turned back to normally rest upon the body of the pencil when not in use to serve as a convenient rest for the fore finger of the hand in manipulating the pencil.

An essential feature of my improved sharpener is that the blade is provided with a guide at one end which is adapted to slide back and forth on the body of the pencil to control to some extent the cut to be taken by the knife.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1—illustrates the pencil sharpener turned back in its normal position on the body of the pencil and serving as a finger rest. Fig. 2—is a perspective view illustrating the knife frame turned forward and in position to sharpen the pencil. Fig. 3—illustrates a perspective view of the guide sleeve. Fig. 4—is a perspective view of the knife carrying frame. Fig. 5—is a side elevation showing the device in section with the knife frame turned back against the body of the pencil. Fig. 6—is a detail of the knife. Fig. 7—is a detail of the spring which retains the knife in the frame by friction. Fig. 8—is a side elevation showing the device in section with the knife in sharpening position.

Referring to the drawings, 1 designates the pencil on which is mounted the guide sleeve 2 which sleeve is preferably constructed of sheet metal bent up in a circular form, as illustrated in Fig. 3, the same being provided with a pair of ears 3—3 at one end

pierced at 4—4 to receive the pin 5 on which the knife frame is hinged, the edges of the guide sleeve coming nearly together as at 6, forming a flexible or yieldable sleeve adapted to accommodate itself to the different sizes of pencils and to slide readily back and forth thereon when guiding the knife to sharpen the pencil.

One end of the knife retaining frame 7 is bent over to form an eye 8 through which the pivot pin 5 is passed, said end is then bent back upon itself as at 9 and turned outward as at 10, forming a binding edge adapted to engage the body of the pencil to grip the same and retain the guide sleeve firmly in position thereon. Adjacent this hinged or pivoted end are a pair of retaining flanges 11—11 turned inward from each edge thereof for the purpose of receiving and retaining the knife blade.

The knife frame proper extends forward some distance and the stock at the bottom of the same is cut away as at 12, leaving an opening through which the edge of the knife may be applied to the pencil. The outer end of this frame is bent up into substantially a U-shape at 13 and is adapted to be carried over and beneath the point of the pencil in the manner illustrated in Fig. 2 so as to limit the rearward stroke of the frame and regulate the length of the cut.

In order to apply the knife quickly to the frame I have provided a spring member 14, see Figs. 5 and 7, one end of said spring being turned over as at 15 to form an eye through which the pivot pin 5 may pass, the body of the spring extending out between the retaining flanges 11—11.

In placing the knife blade in position the end slides over the raised portion of the spring which effectually binds and holds it in position against said retaining flanges, the rear end of the knife resting against the doubled portion 17 of the frame, or the blade may be held by a screw or any other convenient means. The knife blade is provided with a hole 18 into which a nail or other convenient implement may be inserted for withdrawing the knife for the purpose of sharpening.

In the operation of my improved pencil sharpener it is only necessary to slide the flexible guide sleeve onto the pencil, bring the end of the frame portion beneath the point thereof and carry the whole back-

ward until the knife blade rests upon the wood on one side of the pencil, while the yoke portion 13 engages the point on the underside of the pencil, thus limiting the backward motion and regulating the cut to be taken. It is then only necessary to press slightly downward with the thumb and finger on the frame and draw the same forward when the knife will take the required cut with the grain of the wood. This operation is repeated successively as the cuts are taken all around the pencil forming a very uniform and satisfactory point.

After the operation has been completed it is only necessary to turn the frame back in the position illustrated in Figs. 1 and 5 upon the body of the pencil whereby the edge 10 will engage and grip the body of the pencil, and as said edge is set back slightly to the rear of the pivoting point it naturally causes the free end of the frame to be returned closely against the body of the pencil. The shape of this frame is such as to afford a very convenient rest against which to place the finger of the hand while using the pencil.

The device is extremely simple and practical in construction and efficient in its operation.

Having thus described my invention, what

I claim as new and desire to secure by Letters Patent, is:

1. A pencil sharpener comprising a guide sleeve slidably mounted on the pencil, a knife blade, a frame in which said blade is retained by friction, said frame being pivoted to said sleeve and arranged to serve as a handle to guide the knife as the whole is being reciprocated to sharpen the pencil, and an engaging lip in said frame for binding and retaining the whole in position on the pencil while the latter is in use.

2. A pencil sharpener comprising a knife blade, a frame in which said blade is mounted, a guide at one end of said frame adapted to slide on the pencil to control the knife while being reciprocated to sharpen said pencil, means whereby said frame may be turned back upon the body of the pencil and a lip in said frame for binding and retaining the same when in its turned back position, said frame being also adapted to provide a finger rest while the pencil is in use.

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

SOREN JENSEN.

Witnesses:

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