

No. 638,287.

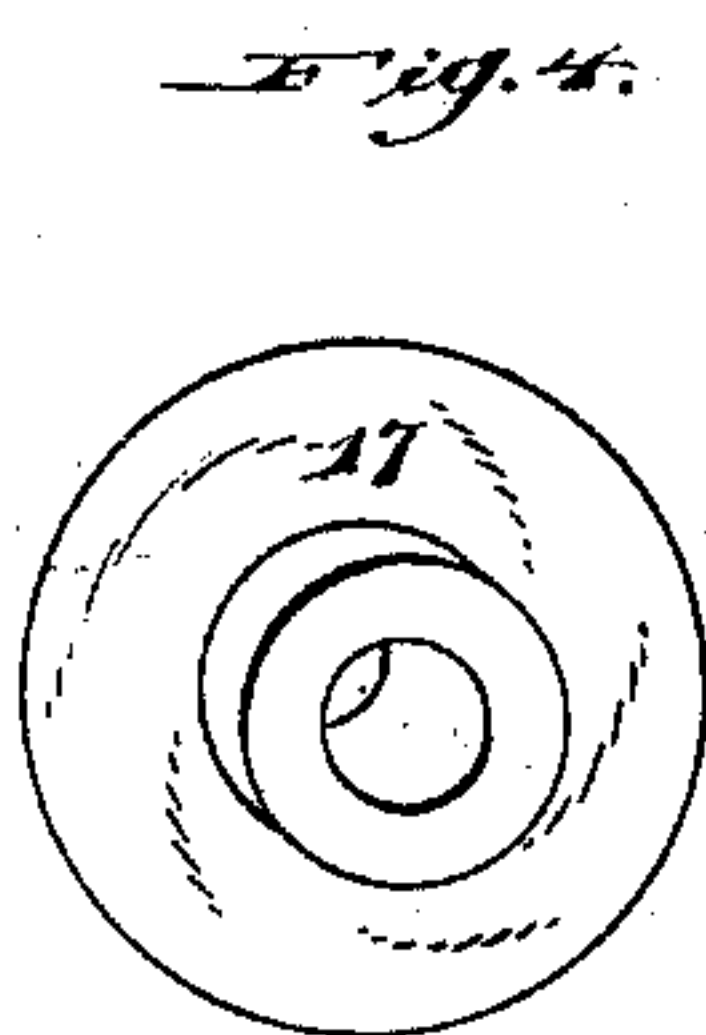
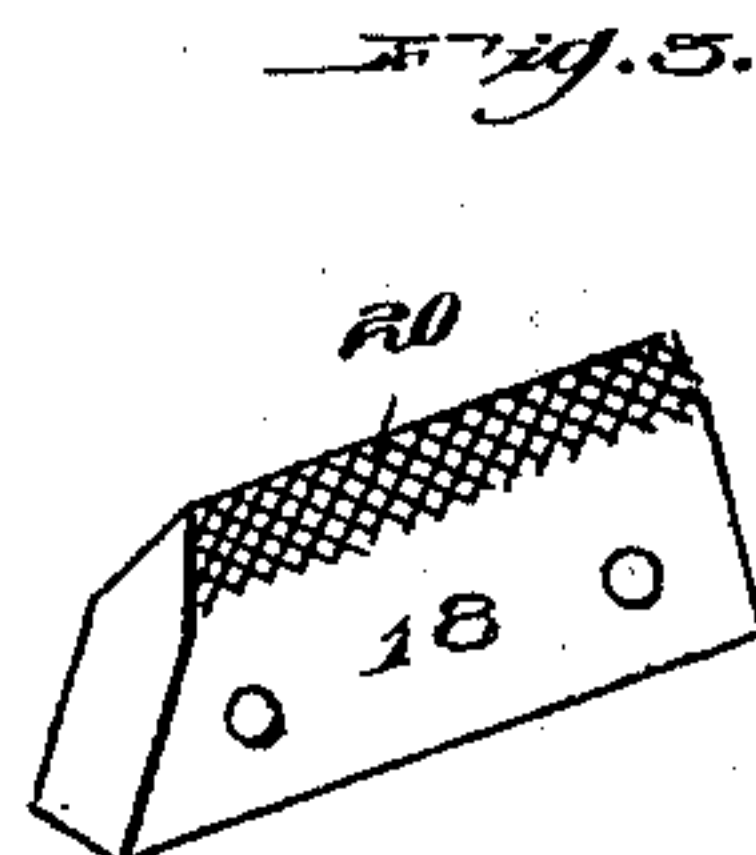
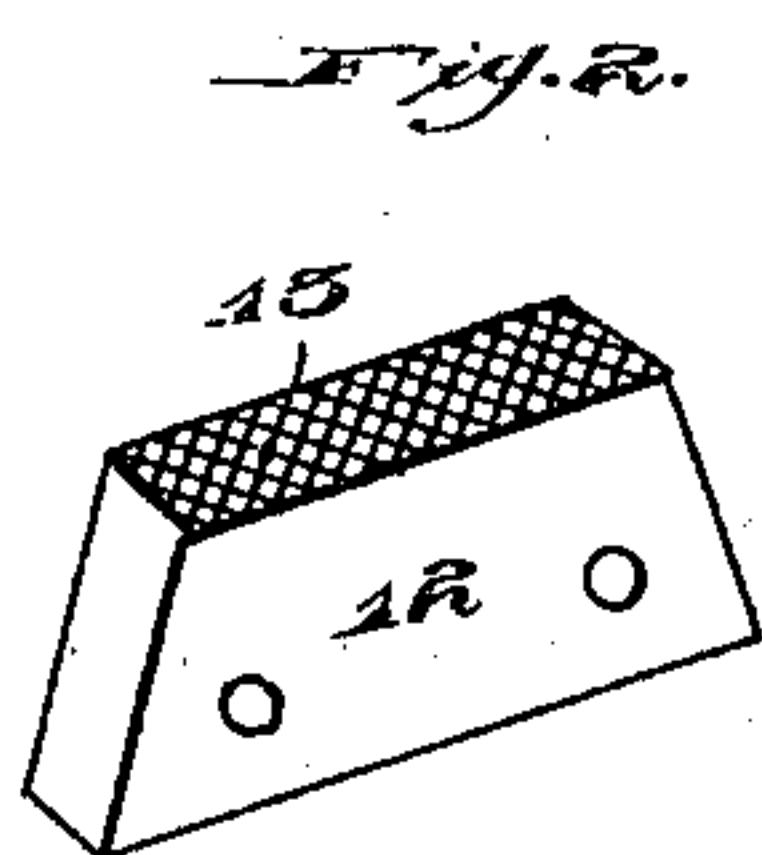
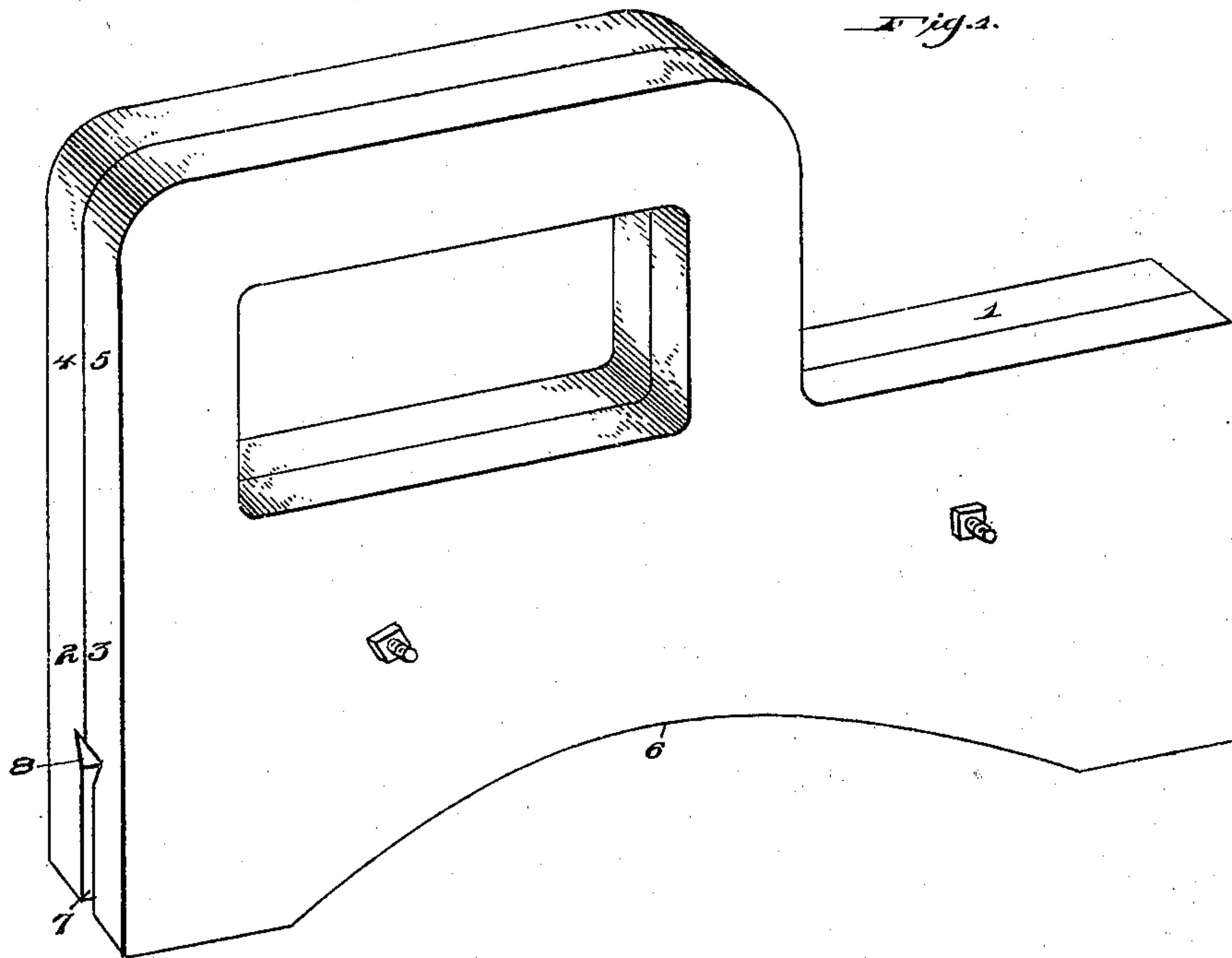
Patented Dec. 5, 1899.

M. E. SHAW.  
SAW SETTING DEVICE.

(Application filed Apr. 14, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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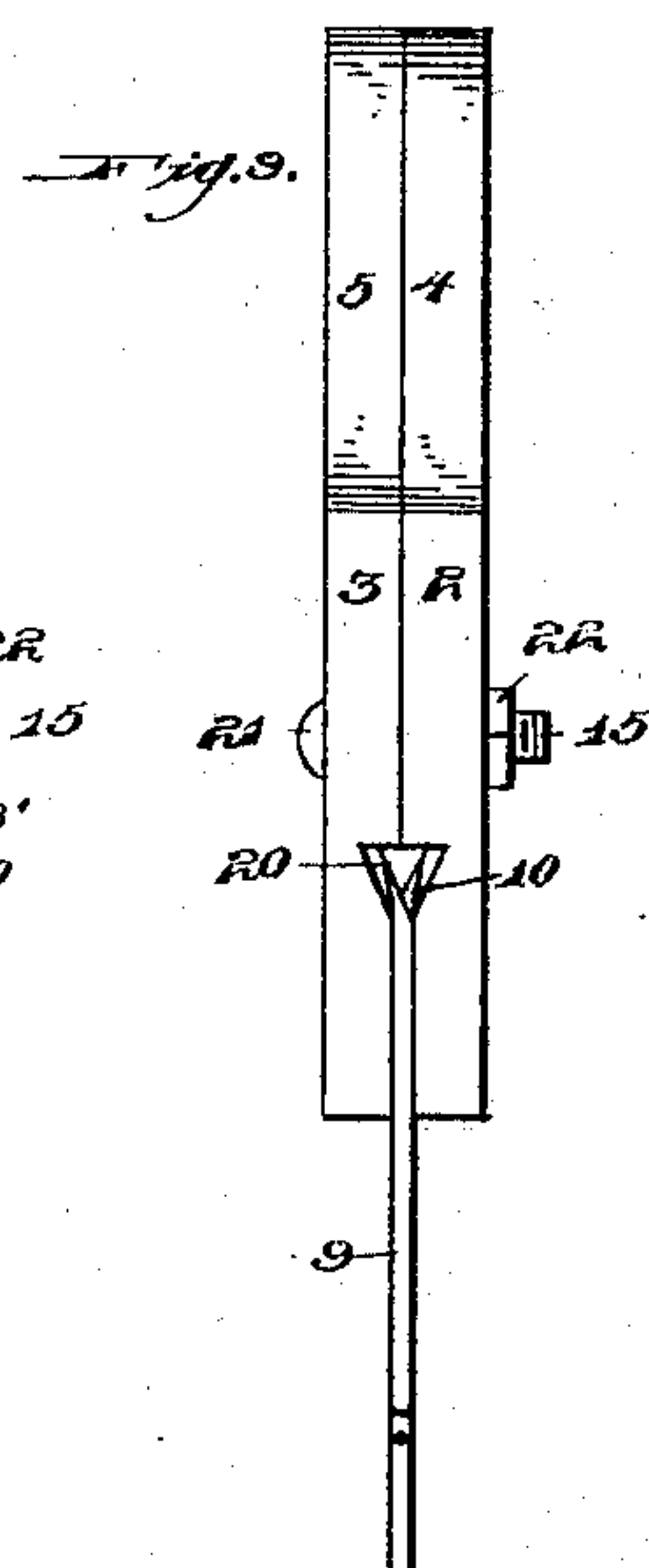
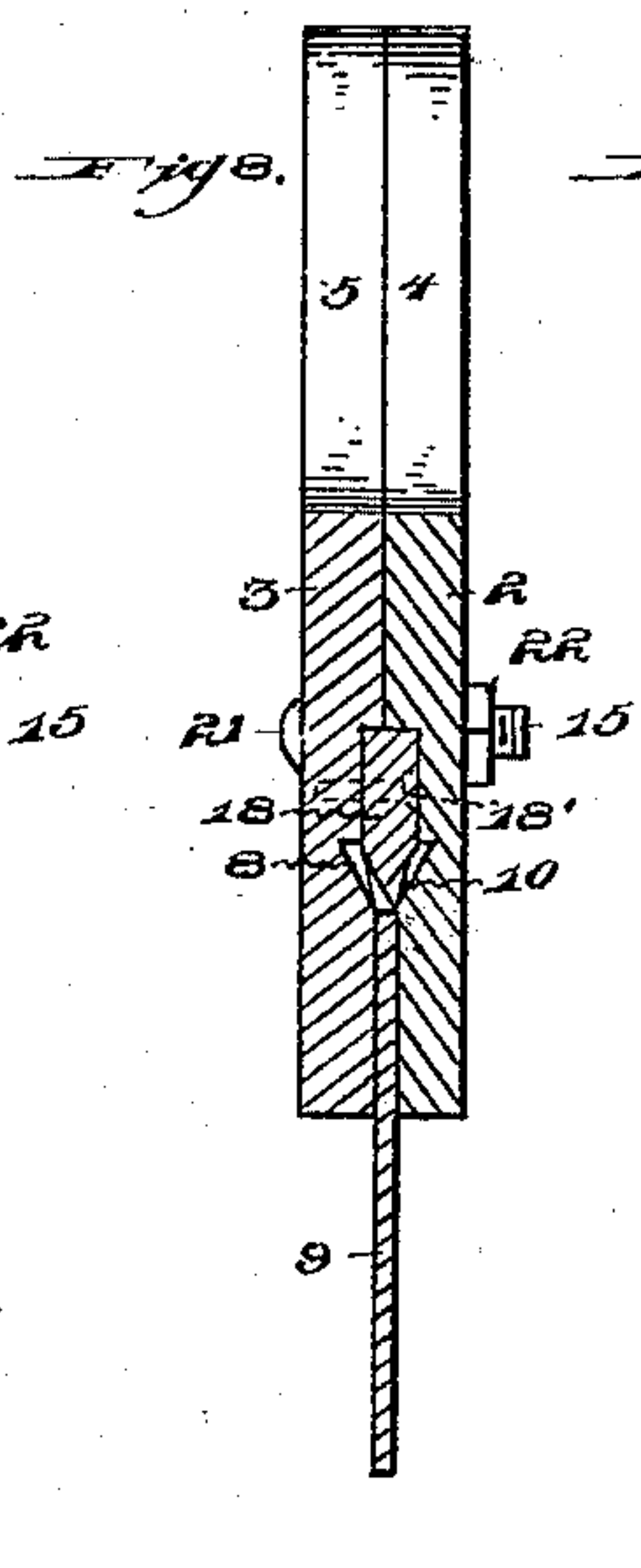
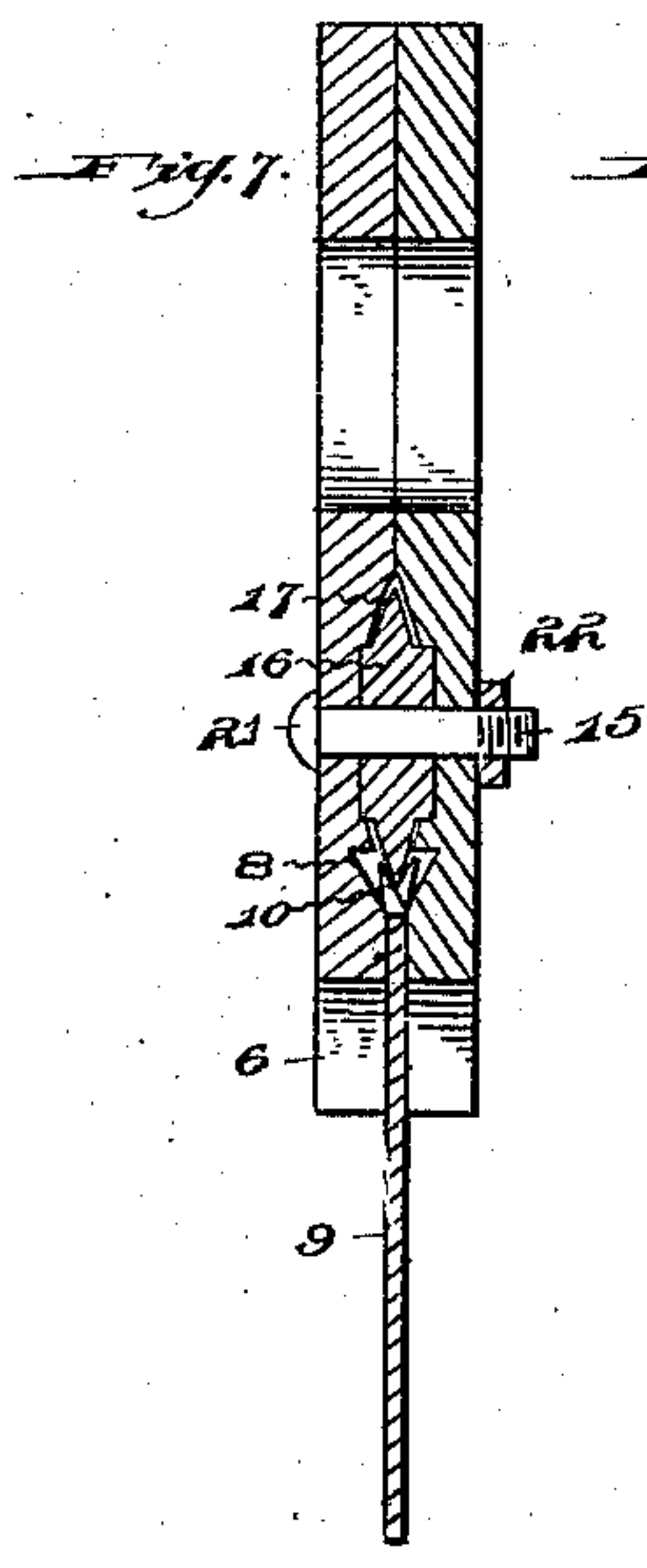
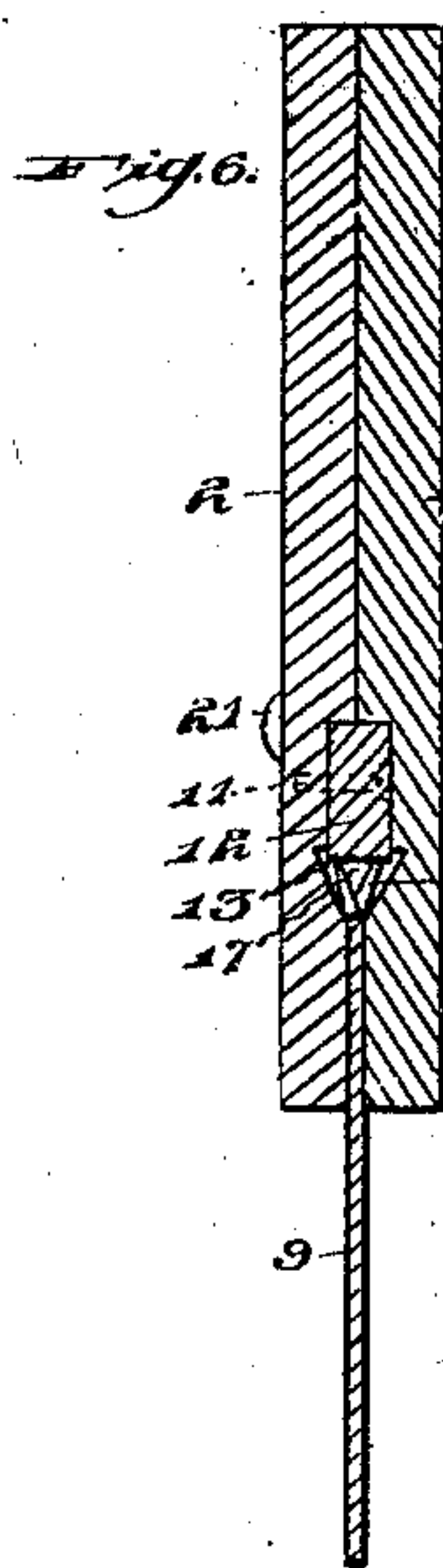
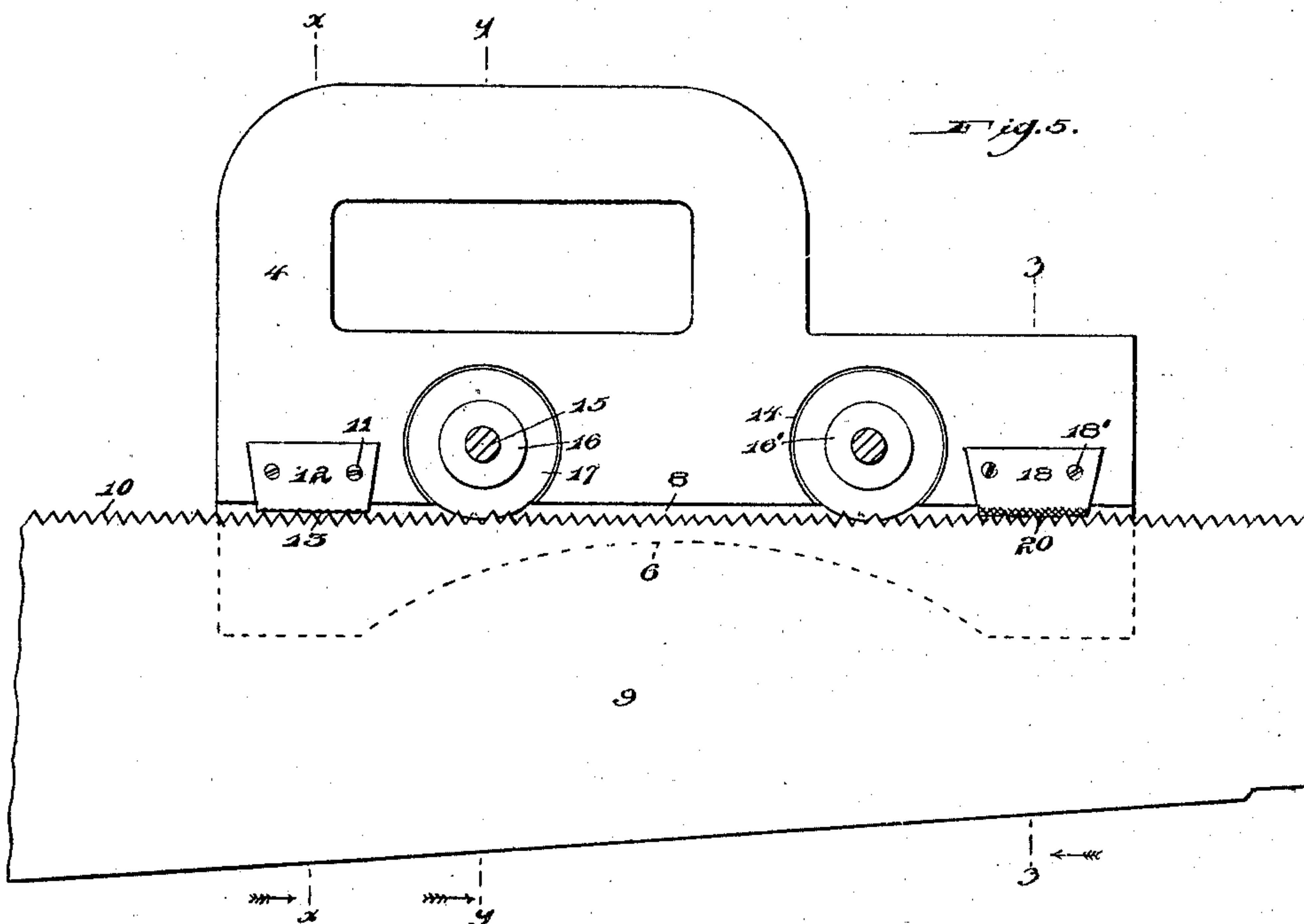
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# UNITED STATES PATENT OFFICE.

MILTON E. SHAW, OF KITTANNING, PENNSYLVANIA.

## SAW-SETTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 638,287, dated December 5, 1899.

Application filed April 14, 1899. Serial No. 712,978. (No model.)

*To all whom it may concern:*

Be it known that I, MILTON E. SHAW, a citizen of the United States of America, residing at Kittanning, in the county of Armstrong and State of Pennsylvania, have invented certain new and useful Improvements in Saw-Setting Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in saw-setting devices.

My invention is particularly adapted for setting the teeth of saws, as well as sharpening the sides of the teeth and evening the ends thereof after they have been set and sharpened.

My invention further consists in the novel combination and arrangement of parts hereinafter more particularly described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like numerals of reference indicate corresponding parts throughout the several views thereof, and in which—

Figure 1 is a perspective view of my improved device. Fig. 2 is a perspective view of the evening-file. Fig. 3 is a perspective view of the sliding setting device and file. Fig. 4 is a perspective view of the rotating setting device. Fig. 5 is a side view of my improved device with one section of the frame removed, showing the saw in position. Fig. 6 is a vertical view on the line  $x x$ , Fig. 5. Fig. 7 is a like view on the line  $y y$ , Fig. 5. Fig. 8 is a like view on the line  $z z$ , Fig. 5. Fig. 9 is an end view of my improved device with the saw in position, showing the teeth sharpened and set.

Referring to the drawings by reference-numerals, 1 indicates the frame, consisting of a pair of separable longitudinal members 2 3, constructed of any metallic material, each of which has formed at one end the upwardly-  
extending brackets 4 5, forming a handle for operating the device. The bottom of the longitudinal members may have a portion thereof convexed, as at 6, if desired. The inner  
face of each of the members 2 3 is cut away  
diametrically opposite each other in a like  
manner, this cut-away portion of each mem-

ber forming an oblong recess 7 when the members are secured together and a triangular recess 8, the saw 9 being arranged in the recess 7 and the saw-teeth 10 in the recess 8. The inner face of each of the members is also provided with an irregular recess diametrically opposite each other and registering with the triangular recess 8 and mounted within this irregular recess by means of the screws 11, securing the same to the member 2, the block 12 having its lower portion knurled or milled, as at 13, for filing evenly the teeth 10. The inner face of each of the members is also provided with two circular recesses 14, diametrically opposite each other, and each recess registers with the triangular recess, and within which circular recesses are rotatably mounted upon the securing-bolts 15 the setting-wheels 16 16', which taper toward their periphery, as at 17, and extend within the triangular recess 8 to engage the saw-teeth.

Mounted in a recess formed on the inner face of each of the members is the sharpening-block 18 by means of the screw 18' for securing the same to the member 2, and which block tapers toward its lower end, as at 19, and has the outer face thereof knurled or milled, as at 20, thereby forming a file which extends into the triangular recess 8.

The members 2 3 are secured together by means of the securing-bolts 15, provided on one end with a head 21 and a portion of their opposite ends screw-threaded, upon which is mounted the fastening-nut 22, the bolts operating through the members, as shown.

The operation of my improved device is as follows: Assuming that the saw is rigidly held in position in some manner, the device is placed thereon, as shown in Fig. 5, and by grasping the handle thereof, pulling the same across the saw in a longitudinal direction or toward the handle of the saw, the block 12, owing to the file formed on its lower face, will even the teeth of the saw, the rotating wheels 16 16' will set the saw-teeth, and the sharpening-block 18, owing to its being tapered, will sharpen the sides of the teeth.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.



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

1. In a saw-teeth-setting device, a pair of  
5 longitudinal members forming a frame provided with a pair of circular recesses, a pair of rotating saw-teeth-setting wheels mounted in said recesses, and means for sharpening the saw-teeth also mounted in the said frame,  
10 substantially as described.

2. In a saw-teeth-setting device, a frame provided with a series of circular recesses, a pair of rotating saw-teeth-setting wheels mounted in said recesses, a sharpening-block  
15 for the saw-teeth also mounted in the saw-frame, and means carried by the said frame for evening the saw-teeth, substantially as described.

3. In a saw-teeth-setting device, the combination of a frame provided with a suitable  
20 recess to receive a saw and a series of circular recesses, a pair of rotating saw-teeth-setting wheels mounted in said circular recesses, and means for evening the saw-teeth carried  
25 by the said frame, substantially as described.

4. In a saw-teeth-setting device, the combination of a frame provided with a suitable recess to receive a saw, a series of circular

recesses and a series of irregular recesses, a pair of rotating saw-teeth-setting wheels  
30 mounted in said circular recesses, a block for evening the saw-teeth carried by the said frame, and means mounted in a pair of the said irregular recesses for sharpening the saw-teeth, substantially as described. 35

5. In a saw-teeth-setting device, the combination of a pair of longitudinal members suitably secured together forming a frame, each of the said members provided with a pair of circular and irregular recesses, a handle  
40 formed integral with the said members, the said members provided with a suitable groove adapted to receive a saw, a block for evening the saw-teeth mounted within a pair of the said irregular recesses, a pair of saw-teeth-setting wheels suitably mounted within  
45 the said circular recesses, and means carried by the said frame for sharpening the saw-teeth, substantially as described.

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

MILTON E. SHAW.

Witnesses:

JOHN NOLAND,

H. H. PATTERSON.