

No. 755,070.

PATENTED MAR. 22, 1904.

D. F. STALEY.
PALLET JEWEL SETTING DEVICE.

APPLICATION FILED JAN. 27, 1904.

NO MODEL.

Fig. 1.

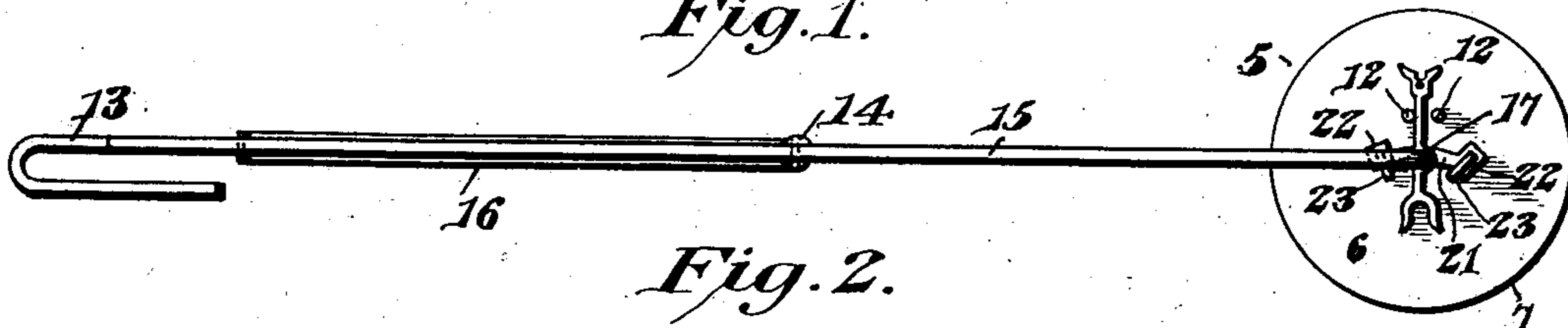


Fig. 2.

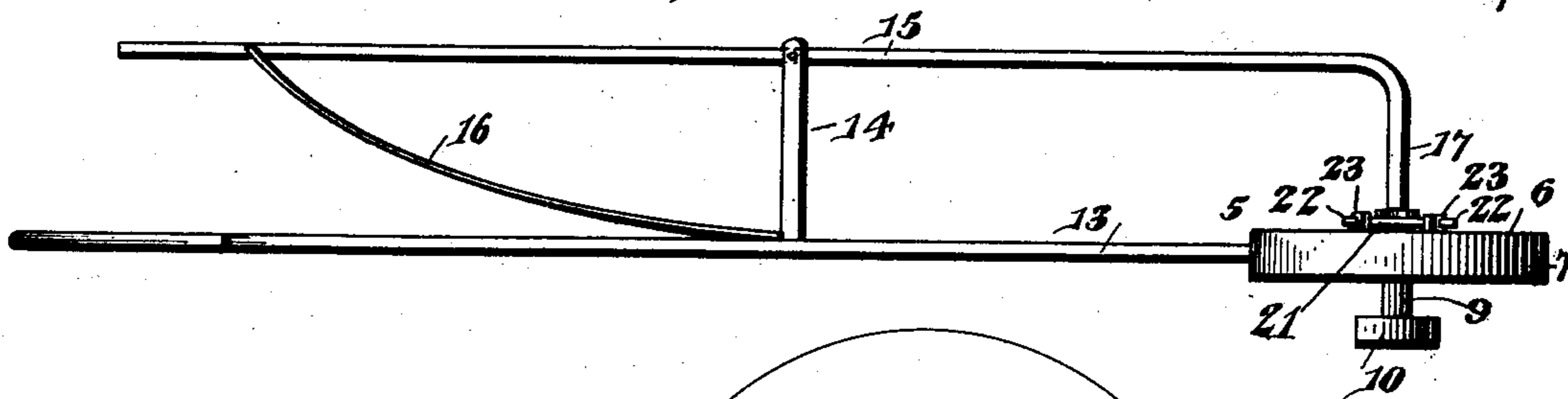


Fig. 3.

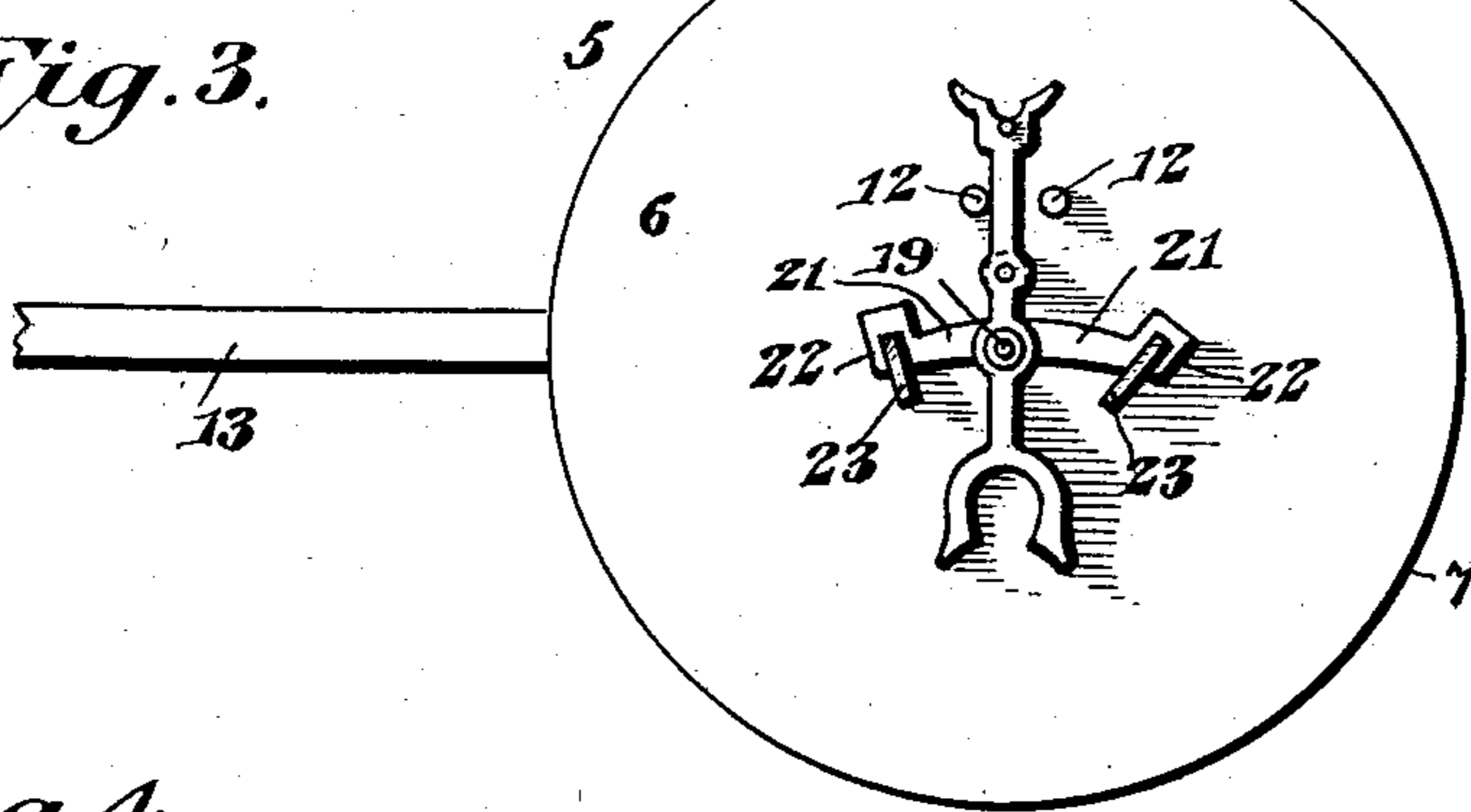
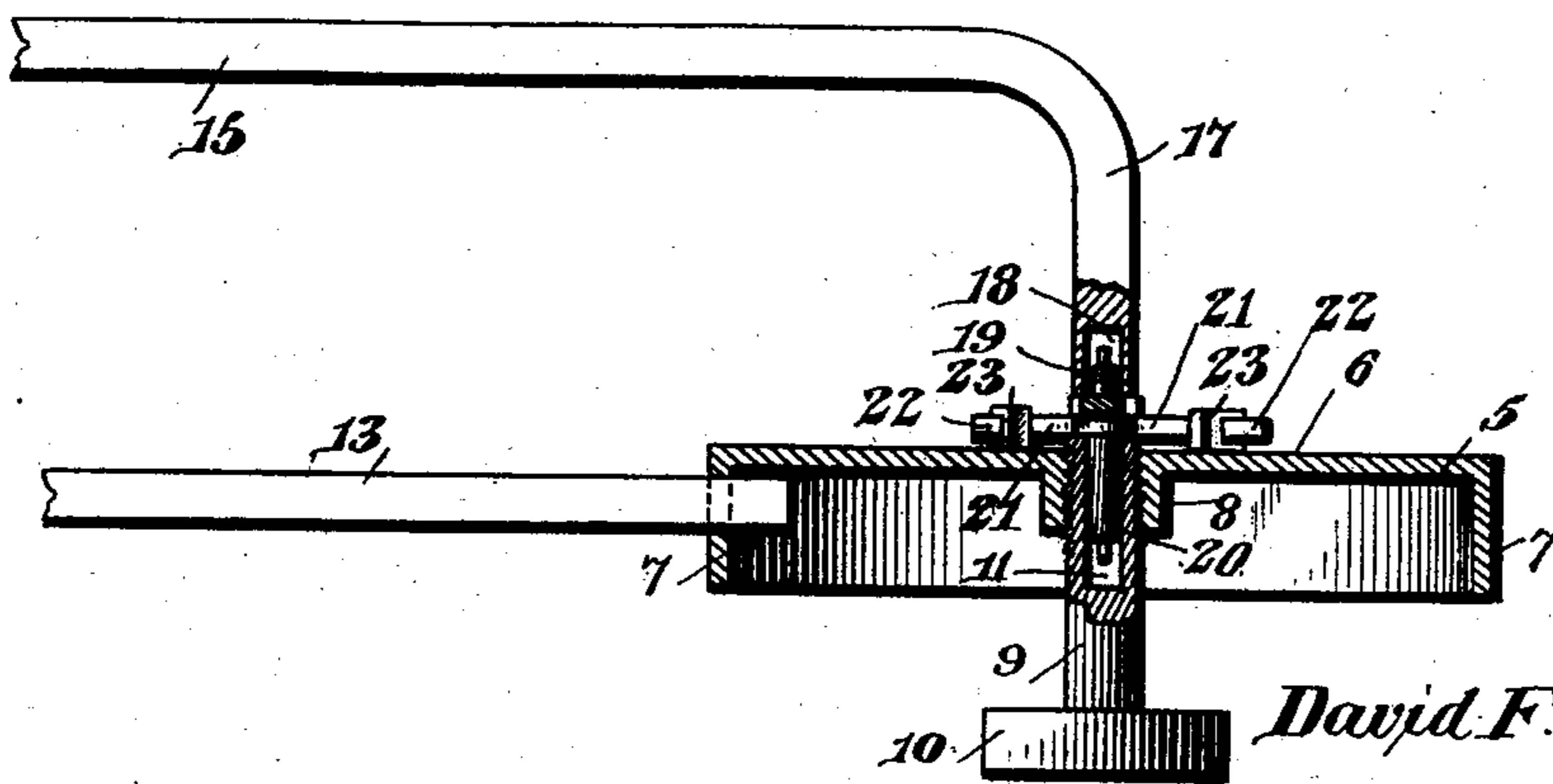


Fig. 4.



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DAVID F. STALEY, OF HIGHPOINT, NORTH CAROLINA, ASSIGNOR OF ONE-HALF TO ALBERT P. STALEY, OF HIGHPOINT, NORTH CAROLINA.

PALLET-JEWEL-SETTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 755,070, dated March 22, 1904.

Application filed January 27, 1904. Serial No. 190,821. (No model.)

To all whom it may concern:

Be it known that I, DAVID F. STALEY, a citizen of the United States, residing at Highpoint, in the county of Guilford and State of North Carolina, have invented a new and useful Pallet-Jewel-Setting Device, of which the following is a specification.

This invention relates particularly to that type of watchmakers' tools employed in setting the jewels of pallets. It is well known that these jewels are usually wider than the jaws of the pallets holding them, and consequently considerable difficulty is experienced in positioning the same during the setting or adjustment thereof, while the securing means—namely, the shellac—is soft and pliable.

It is the object of the present invention to provide a novel combination of elements whereby the pallet may be securely held with respect to the jewel-supporting means, so that the jewels supported on said means will be properly positioned, so far as their lateral relation is concerned, in the pallet-jaws. Moreover, the said elements are made adjustable in order that different makes and types of pallets may be operated upon in the same advantageous manner.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein—

Figure 1 is a top plan view of an implement of the character outlined above, showing a pallet in place therein. Fig. 2 is a side elevation of the same. Fig. 3 is a top plan view, on an enlarged scale, of the jewel-support with the pallet thereon. Fig. 4 is a vertical sectional view through the same, also showing a portion of the clamp.

Similar reference-numerals indicate corresponding parts in all the figures of the drawings.

In the embodiment illustrated relatively-adjustable jewel and pallet supports are employed. The former comprises a base 5 in the form of a disk having an upper substantially flat jewel-supporting surface 6 and provided on its under side with an annular peripheral flange 7 and a centrally-disposed depending boss 8, said boss having a threaded bore that

extends through the upper jewel-supporting surface 6. The pallet-support is in the form of a threaded stem 9, screwed through the boss 8 and having its upper end movable above the face 6, the lower end of said stem being provided with an operating-head 10. The upper portion of said stem is provided with a longitudinally-disposed arbor-receiving socket 11. The upper jewel-supporting surface may, if desired, be provided with a pair of positioning-studs 12, that project above the same at one side of the pallet-support.

A handle 13 extends from one side of the base 5 and is provided between its ends with an upstanding post 14, to the upper end of which is pivoted a clamping-lever 15, extending longitudinally of the handle 13 and over the base. The rear arm of this lever is borne against by a spring 16, which is secured to the handle 13, contiguous to the post 14, said spring serving to urge the opposite arm toward the base. The said opposite arm is provided with an inturned terminal 17, the free end of which bears against or toward the projecting end of the pallet-stem 9 and is provided with a longitudinally-disposed arbor-receiving socket 18.

A well-known type of pallet is illustrated in connection with the setting device, said pallet having the usual arbors 19 and 20 and provided with oppositely-extending arms 21, carrying jaws 22, in which the jewels 23 are held. By referring to Figs. 2 and 3 it will be noted that these jewels are wider than the jaws and, as usual, are held in place by shellac. In setting the same the pallet is placed in the device with the arbors 19 and 20, respectively, seated in the sockets 18 and 11, after which the stem 9 is adjusted by being elevated or depressed until the jewels 23 rest firmly upon the supporting-surface 6 of the base. The device is then placed over a flame or lamp until the shellac is softened by the heat, whereupon the jewels will be loosened and may be adjusted as desired. In other words, they may be projected more or less from the jaws, or if it is desired to change the lateral relation with respect to said jaws the stem 9 may be elevated or depressed, carrying the pallet with it and

without moving the jewels, which can be held against their supporting-surface 6. Having properly positioned the said jewels, as soon as the shellac cools sufficiently they will be again secured in place. Practically the same operations are performed in substituting or setting new jewels in the pallet.

It will be clearly apparent that this combination of parts affords convenient means for setting pallet-jewels with ease and accuracy, for the reason that the pallet is always held firmly and adjustably with respect to the surface against which the jewels are abutted and the said adjustment can be readily obtained.

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

1. In a pallet-jewel-setting device, the combination with a base having a jewel-supporting surface, of a pallet-supporting device extending above an intermediate portion of the jewel-supporting surface, and having an arbor-receiving socket.

2. In a pallet-jewel-setting device, the combination with a base having a jewel-supporting surface, of a pallet-supporting device extending above an intermediate portion of the jewel-supporting surface and having an arbor-receiving socket, and a movable clamp coacting with the upper end of the pallet-supporting device and also having an arbor-receiving socket.

3. In a pallet-jewel-setting device, relatively-adjustable pallet and jewel supports.

4. In a pallet-jewel-setting device, the combination with a base having a substantially flat face constituting a support for pallet-jewels, of a pallet-support adjustably mounted on an intermediate portion of the base and movable toward and from the supporting device thereof.

5. In a pallet-jewel-setting device, the combination with a base having a substantially flat face constituting a support for pallet-jewels and furthermore having an intermediate opening, of a pallet-supporting stem threaded in the opening and adjustable above the jewel-supporting face thereof.

6. In a pallet-jewel-setting device, the com-

bination with a disk-base having a substantially flat upper face constituting a support for pallet-jewels and having a centrally-disposed opening, of a pallet-supporting stem threaded in the opening and adjustable above the jewel-supporting face thereof, said stem being provided with an arbor-receiving socket, and a handle projecting from one side of the base.

7. In a pallet-jewel-setting device, the combination with relatively-adjustable pallet and jewel supports, of means for clamping a pallet upon the pallet-support.

8. In a pallet-jewel-setting device, the combination with relatively-adjustable pallet and jewel supports, of a pallet-clamp coacting with and operating in opposition to the pallet-support.

9. In a pallet-jewel-setting device, the combination with a pallet-jewel-supporting base, of a pallet-support adjustably mounted with respect to the base, and a yielding holding-clamp operating in opposition to the pallet-support.

10. In a pallet-jewel-setting device, the combination with a pallet-jewel-supporting base, of a pallet-support adjustably mounted on the base, a clamp having a portion coacting with the pallet-support, and a spring for urging the clamp against the said support.

11. In a pallet-jewel-setting device, the combination with a base having a substantially flat face constituting a jewel-support, of a pallet-supporting stem threaded through an intermediate portion of the base and movable above the jewel-supporting face, said stem having an arbor-receiving socket, and a spring-pressed clamping device operating in opposition to and having a portion in alignment with the stem, said portion being also provided with an arbor-receiving socket.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

DAVID F. STALEY.

Witnesses:

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