

No. 689,306.

Patented Dec. 17, 1901.

C. L. HEALEY.
STOP MOTION FINGER.

(Application filed Nov. 27, 1900.)

(No Model.)

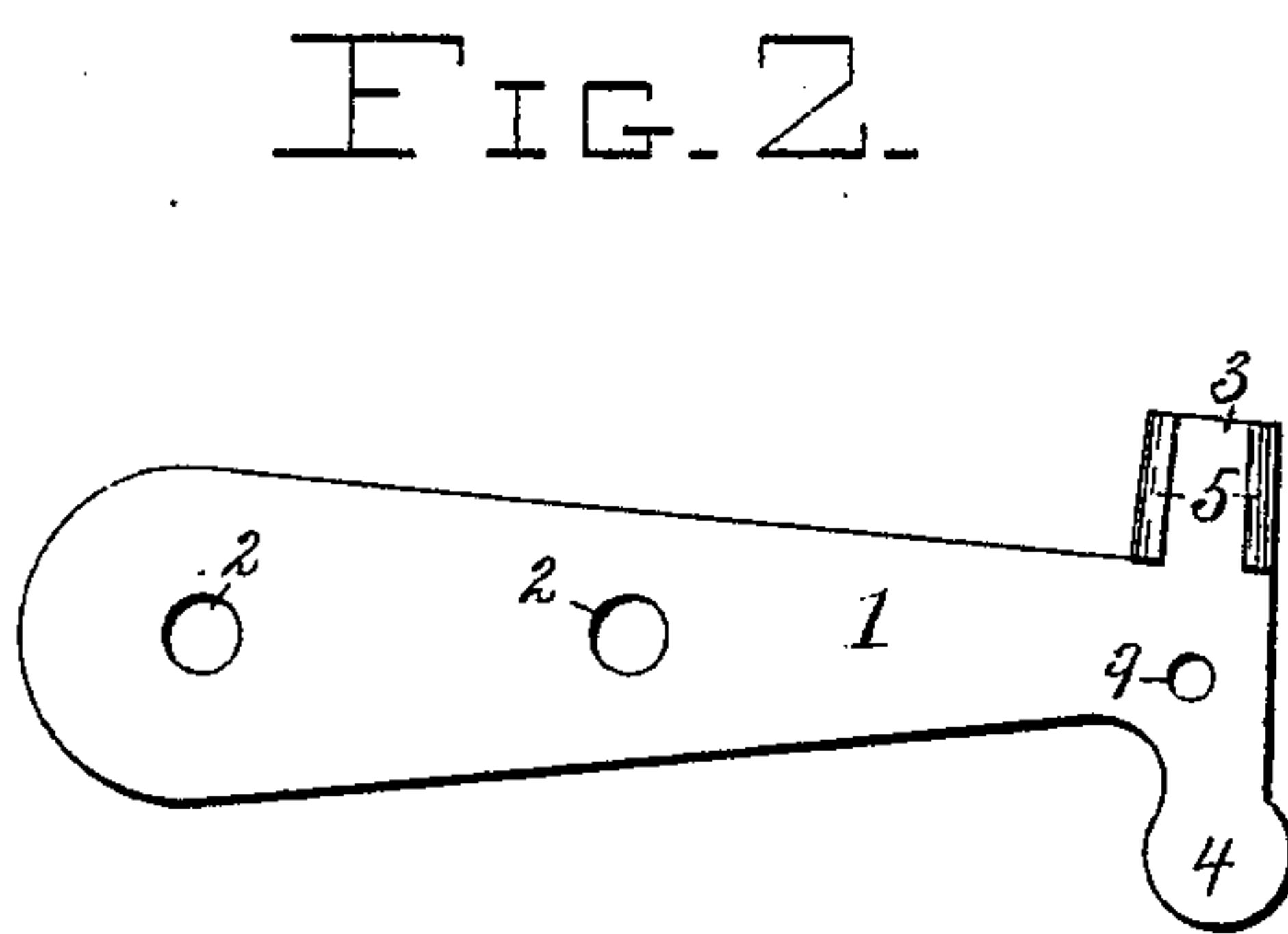
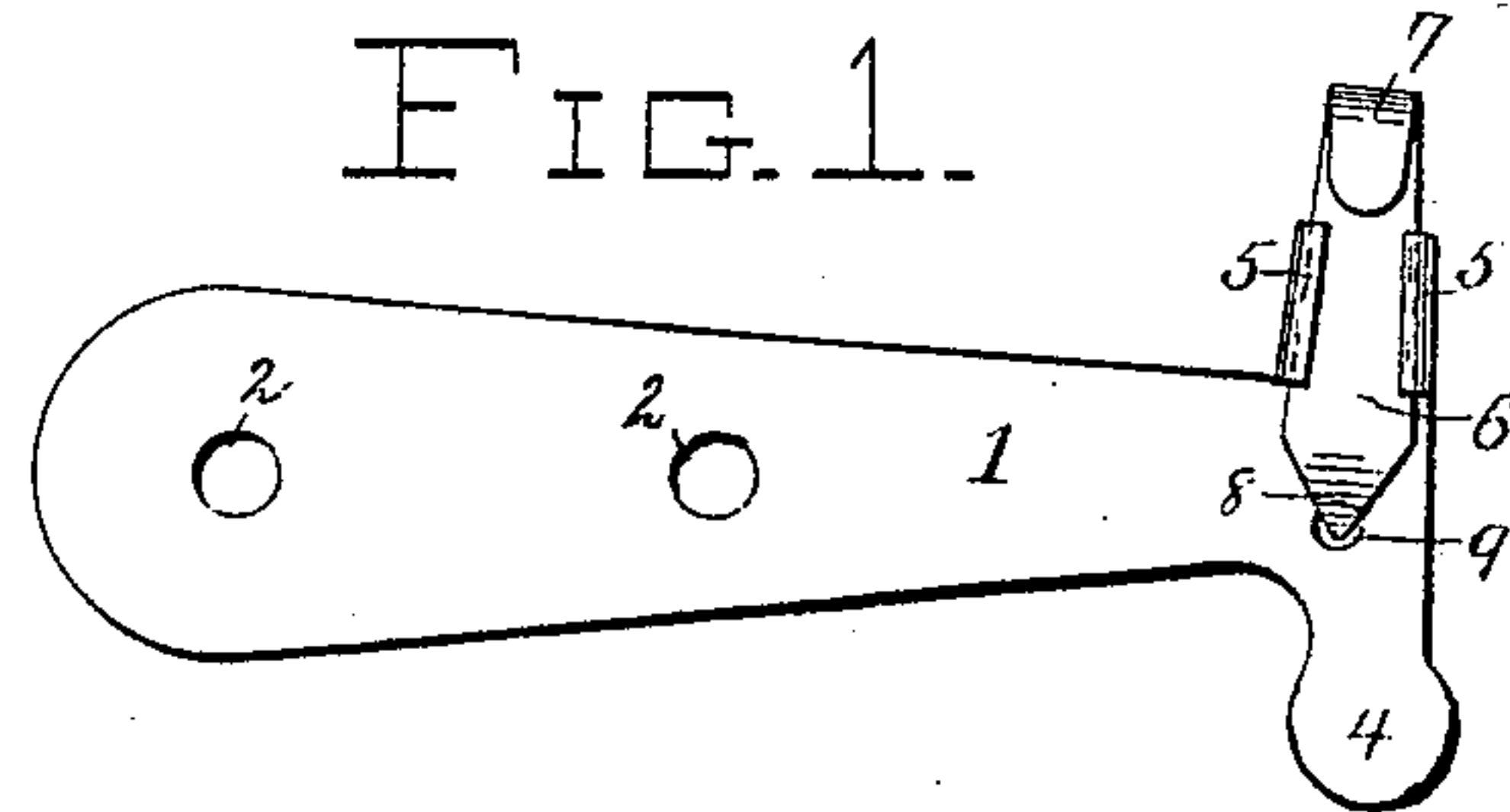
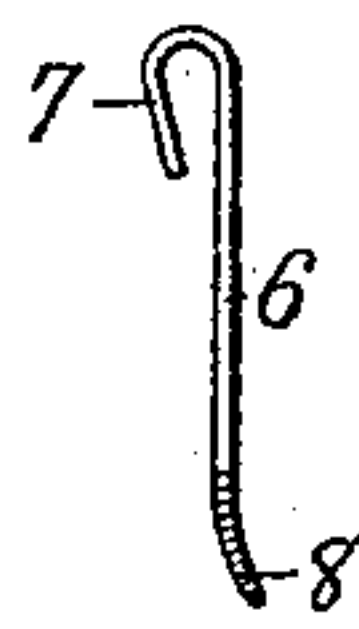


FIG. 3.



FIG. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES L. HEALEY, OF PITTSFIELD, MAINE.

STOP-MOTION FINGER.

SPECIFICATION forming part of Letters Patent No. 689,306, dated December 17, 1901.

Application filed November 27, 1900. Serial No. 37,951. (No model.)

To all whom it may concern:

Be it known that I, CHARLES L. HEALEY, a citizen of the United States, residing at Pittsfield, in the county of Somerset and State of Maine, have invented a new and useful Stop-Motion Finger for Use on the Greenhalgh Stop-Motion, which is used in connection with spooling-machines, of which the following is a specification.

My invention relates to improvements in stop-motion fingers for use on the Greenhalgh stop-motion or analogous devices for spooling-machines. The fingers commonly used on such spooling-machines are constructed of a single piece of metal and comprise a body bearing a perpendicular hooked arm for engaging the warp-thread. After a short time the hooks on the arms become worn, and in consequence the whole finger, body and all, has to be replaced by a new one.

The object of my invention is to obviate the necessity of discarding the body portion by constructing a finger having a detachable hooked arm which can be replaced by another when desired.

The novel construction employed by me in carrying out my invention is fully described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof in which—

Figure 1 is a side elevation of my improved finger. Fig. 2 is a like view with the arm detached. Fig. 3 is a detail elevation of the hooked arm. Fig. 4 is a detail edge view of the same.

Like numerals of reference designate like parts in the different views of the drawings.

The numeral 1 designates the body of my improved finger. This body 1 is apertured at 2 to accommodate the rods for attaching it to the machine.

Formed on the outer end of the body 1 are two oppositely-extending perpendicular ears,

an upper and a lower, designated 3 and 4, respectively. The ear 4 is rounded off, as is usual, while the ear 3 bears a pair of oppositely-disposed converging guides 5, designed to engage a detachable arm 6. The arm 6 is tapering and bears a thread-hook 7 on one end, and the opposite end is beveled on opposite edges to a point 8. The point 8 is slightly hooked or curved to adapt it to engage an aperture 9, formed in the body 1.

In assembling the device the hooked end 7 of the arm 6 is inserted in the guides 5 until the point 8 snaps into the aperture 9. To remove the arm when worn out, the point 8 is pressed inwardly to disengage it, after which the arm can be pushed downwardly and replaced by a new one. The converging guides prevent the withdrawal of the arm 6 by the pull on the thread.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. A stop-motion finger, comprising a body portion adapted to be attached to a machine, converging guides on said body and an arm bearing a thread-hook and detachably mounted in said guides, said arm being held by said converging guides against withdrawal by the pull of the thread, substantially as described.

2. A stop-motion finger, comprising an apertured body having guides thereon, and an arm bearing a thread-hook and a hooked end, said arm being constructed to fit said guides with said hooked end engaging the aperture in said body, substantially as described.

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Witnesses:

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