

No. 689,774.

Patented Dec. 24, 1901.

W. F. ARNDT.
COMBINATION TOOL.

(Application filed Feb. 27, 1901.)

(No Model.)

Fig. 1.

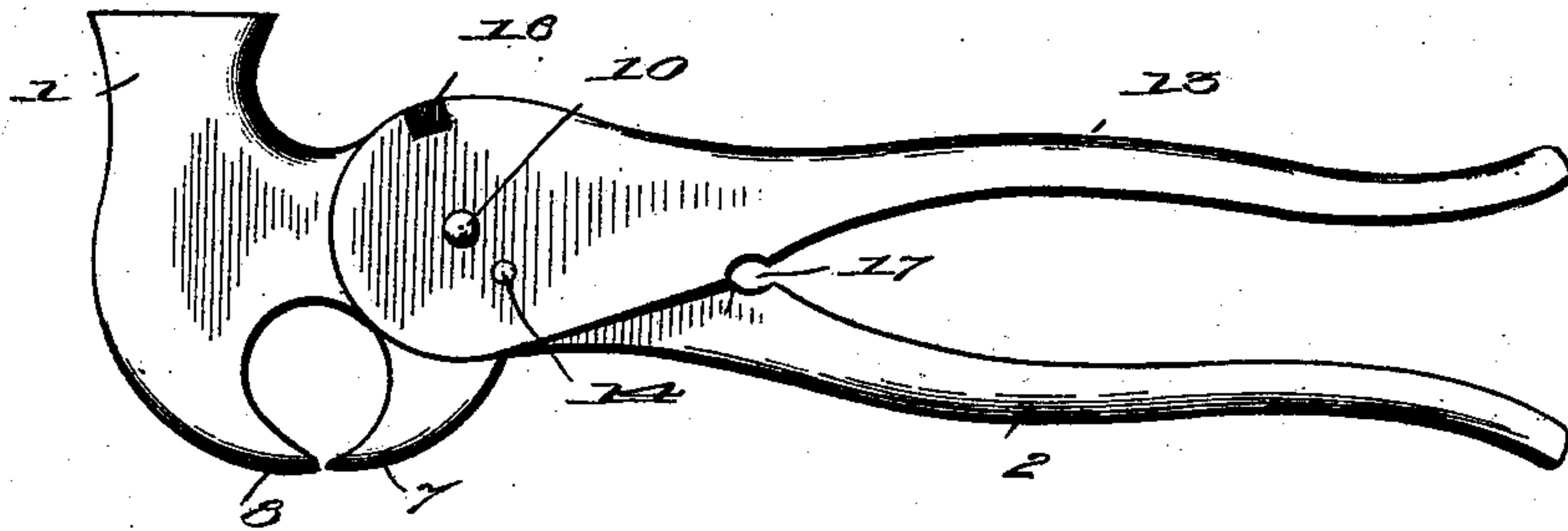


Fig. 2.

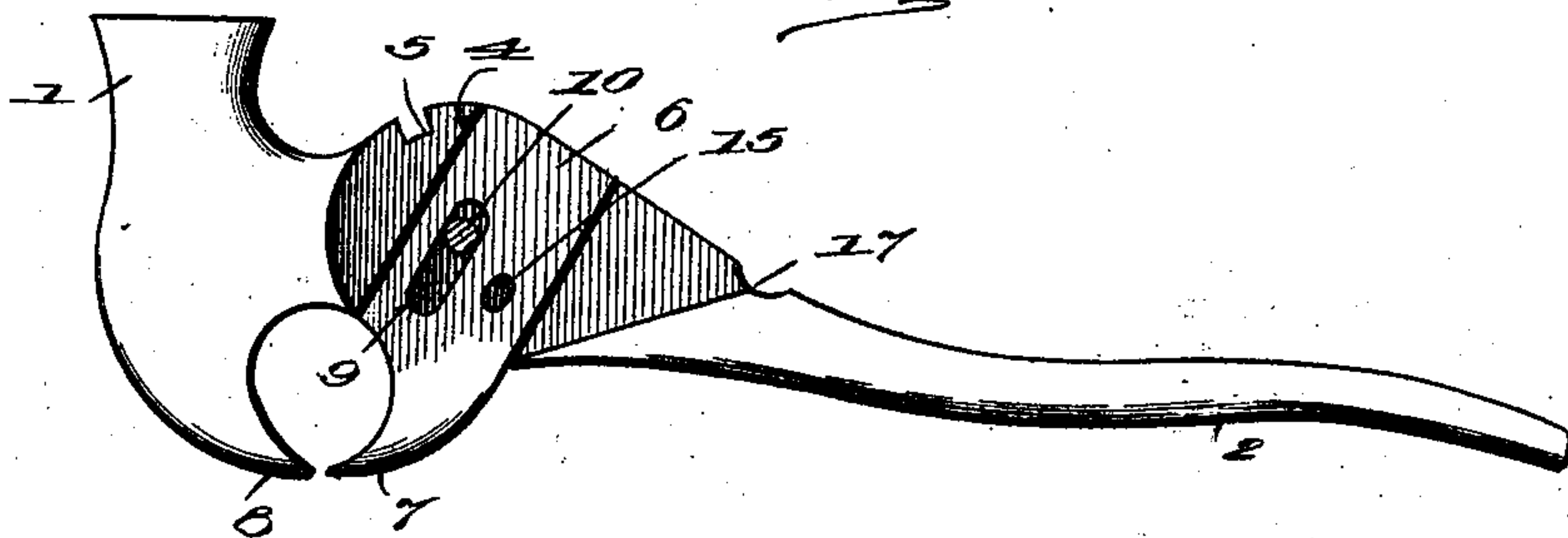
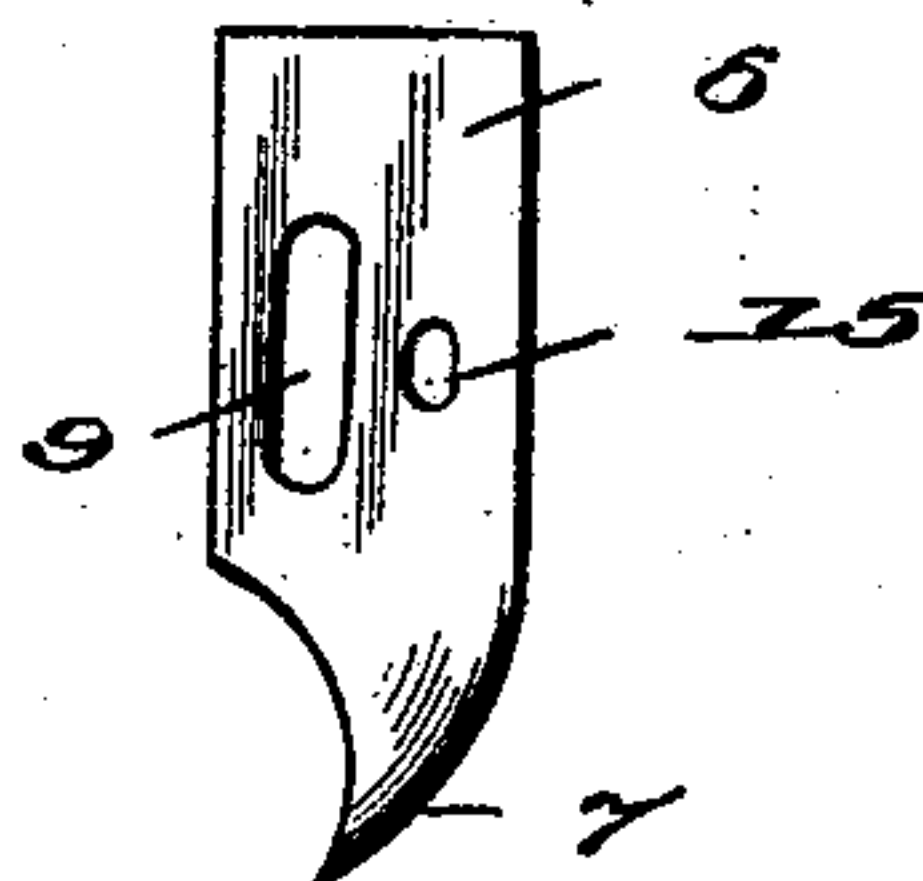
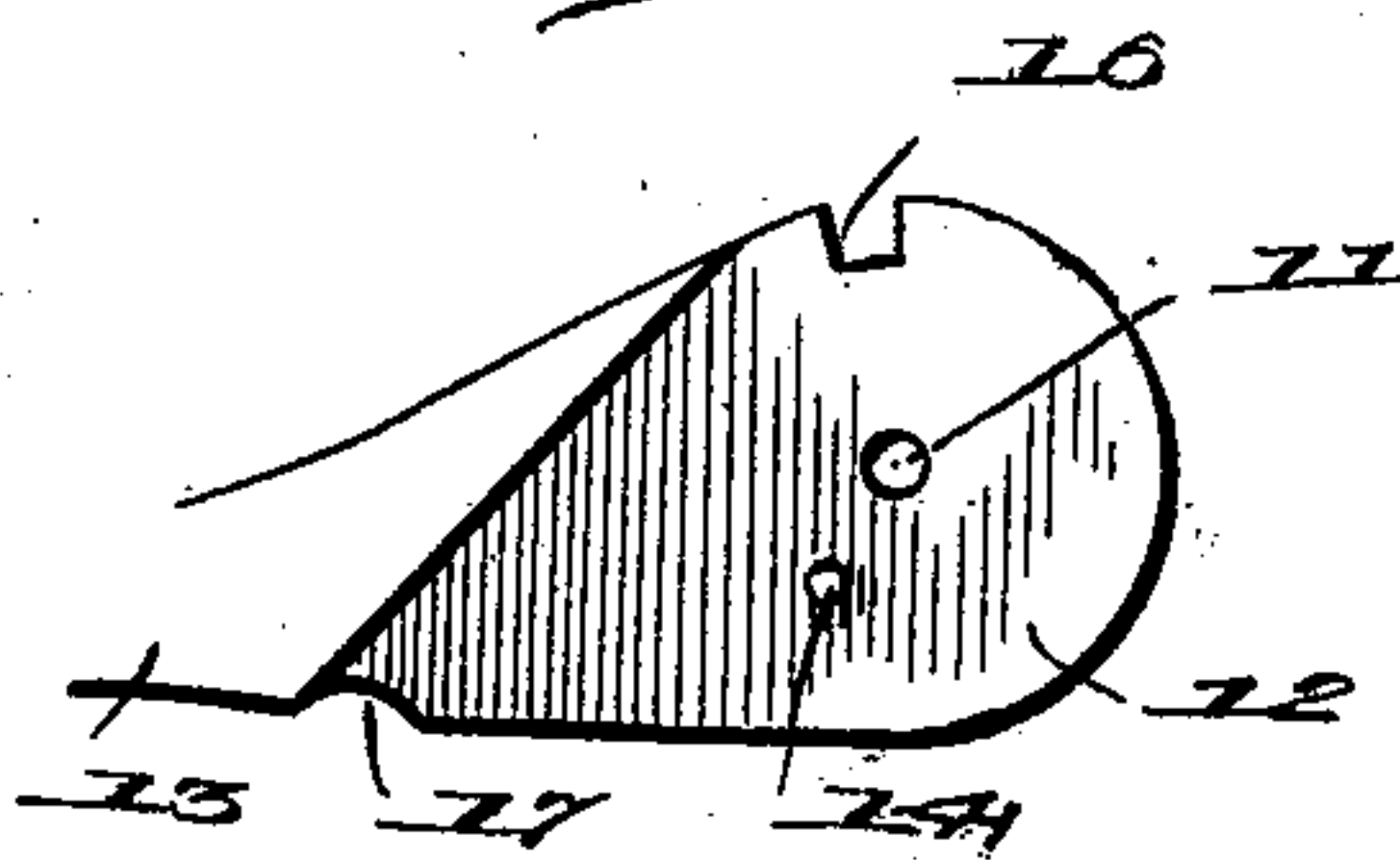


Fig. 3. Fig. 4.



Witnesses

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COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 689,774, dated December 24, 1901.

Application filed February 27, 1901. Serial No. 49,110. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. ARNDT, a citizen of the United States, residing at Hubbleton, in the county of Jefferson and State of Wisconsin, have invented new and useful Improvements in Staple-Extractors, of which the following is a specification.

This invention relates to new and useful improvements in tools; and its primary object is to provide a device of simple and durable construction which is especially adapted for use in setting up and repairing wire fences and similar structures.

The invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is an elevation of the device. Fig. 2 is a similar view with one of the parts removed. Fig. 3 is an inner elevation of the end of the pivoted member, and Fig. 4 is a detail view of the slide.

Referring to the drawings by numerals of reference, 1 is the head of a hammer, from which extends a shank 2, having an enlarged portion 3 adjacent to the head and which is reduced in thickness and grooved transversely, as at 4. This reduced portion 3 is of greater width than the shank 2 and is provided in one edge with a recess 5, which serves as one of the parts of the wire-cutter.

A plate 6 fits snugly within the groove 4 and terminates at one end in a downwardly-extending tongue or hook 7, which is adapted to extend to a point adjacent to the end of an inwardly-curved tongue or hook 8, arranged upon the head of the hammer at a point opposite to the pounding-surface of said head. The plate 6 is slidably mounted within the groove 4 and is slotted, as at 9, to receive a pivot-pin 10, which passes through said slot and through an aperture 11 within the reduced portion 3 and engages the reduced end 12 of a shank 13, forming the second member of the combination-tool. A pin or stud 14 is formed upon the inner face of this reduced portion 12 and is adapted to project into an aperture 15, arranged within the sliding plate 6. It will thus be seen that when the two

shanks 2 and 13, respectively, are swung from and toward each other the plate 6 will be moved within its groove 4 from or toward the tongue 8. A recess 16 is arranged within one edge of the reduced portion 12, this recess being adapted to register with recess 5 when the shanks 2 and 13 are swung away from each other. A recess 17 is arranged within the inner edge of each of the reduced portions 12 and 3 and is for the purpose hereinafter described. It will be readily seen that the device can be used as a hammer by bringing the pounding-surface of the head into contact with the object to be driven.

When it is desired to withdraw a staple, the tongue 8 is inserted therein after the plate 7 has been slid away from the same by opening out the shanks 13 and 2. The shanks are then pressed toward each other, causing the hook to move into position over the tongue 8, and the staple may be then withdrawn by swinging the tongue back, employing the pounding-surface of the head 1 as a fulcrum.

When it is desired to cut wire with this device, the shanks are swung apart until the recesses 5 and 16 register with each other. The wire is then placed therein and the handle swung together, causing the wire to be severed.

When it is desired to secure a firm grip upon the wire for drawing or stretching the same, it is merely necessary to grip the same within the recesses 17 and then hook the tongue 7 thereon. A secure grip is thus secured upon the wire, and the same may be drawn without injuring the hands.

In the foregoing description I have embodied the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make all such changes as fairly fall within the scope 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 device of the character described, the combination with a shank having a head at one end thereof and a transversely-extend-

ing groove; of a plate slidably mounted within the groove; a shank pivoted adjacent to the plate; and a stud upon the shank engaging the plate and adapted to slide the same
5 within the groove.

2. The combination with a shank having a head at one end thereof; and a tongue to said head; of a second shank pivoted to the shank of the head; a plate slidably mounted between said shanks and having a hook at one
10 end; and a stud upon the second shank engaging the plate and adapted to impart motion thereto.

3. The combination with a shank having a
15 head thereto and a tongue at one end of the head; of a plate slidably mounted within a transversely-extending groove within the shank; a hook at one end of said plate adapted to lie adjacent to the tongue; a second shank
20 pivoted to the shank of the head adjacent to the plate; and a stud thereto engaging the

plate whereby motion is imparted thereto from said second shank.

4. The combination with a shank having a head thereto and a tongue at one end of the
25 head; of a reduced portion to said shank having a transversely-extending groove therein; a second shank having a reduced portion fitted upon the reduced portion of the shank of the head; a pivoted pin extending through
30 said reduced portions; a slotted plate slidably mounted within the groove and upon the pivot-pin; a hook at one end of said plate; and a stud upon the second shank engaging the plate whereby motion may be imparted
35 thereto.

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

WILLIAM F. ARNDT.

Witnesses:

CHAS. A. SKINNER,
NICHOLAS THAUER.