

(No Model.)

T. THOMPSON.  
WASHER CUTTER AND CARRIAGE TOOL.

No. 492,640.

Patented Feb. 28, 1893.

Fig. 1.

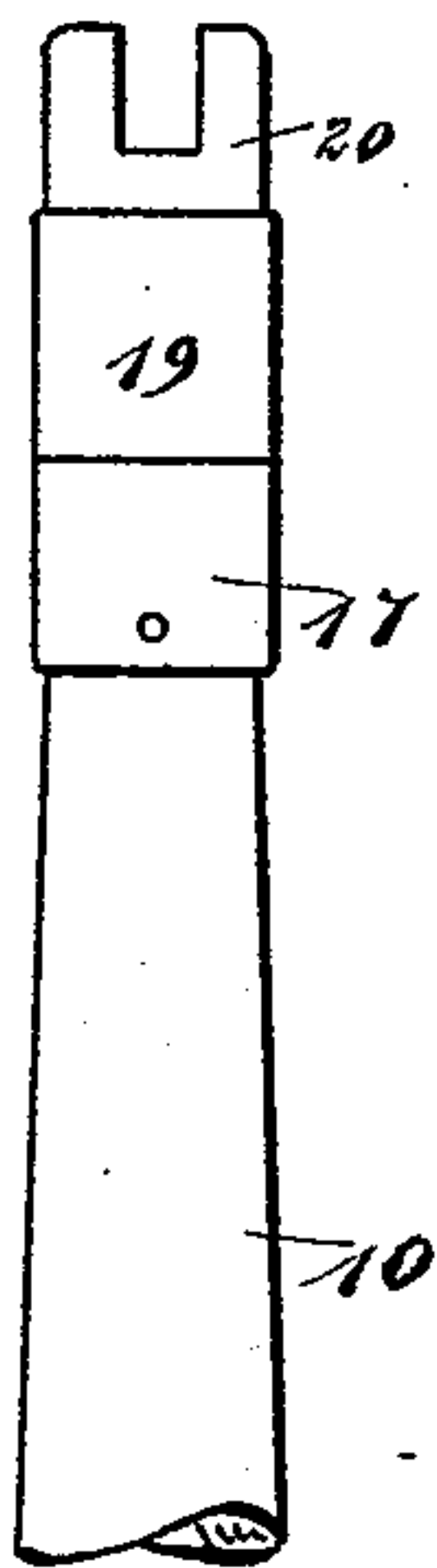


Fig. 2.

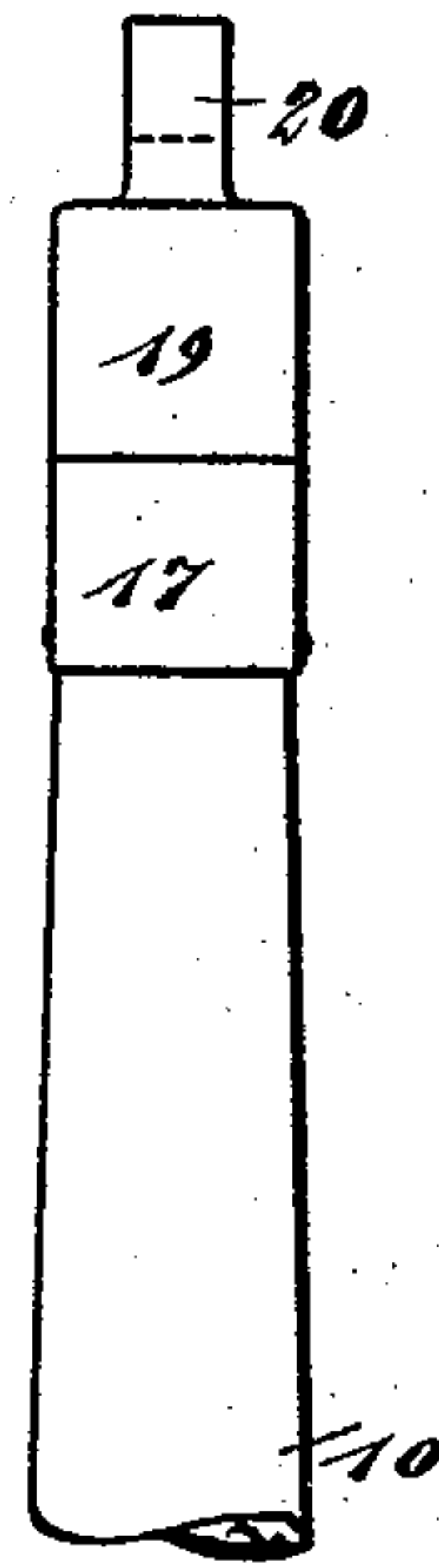


Fig. 3.

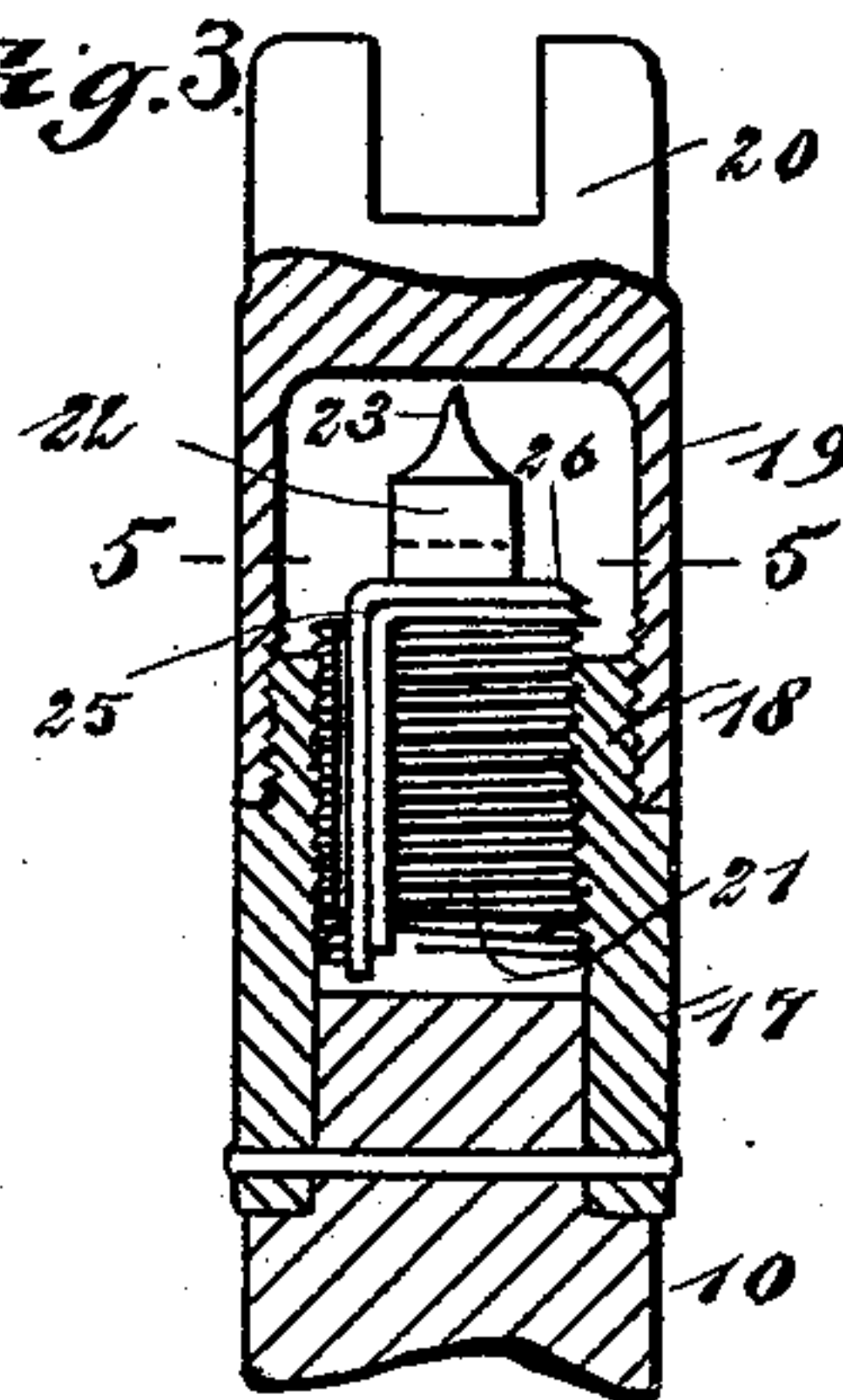


Fig. 4.

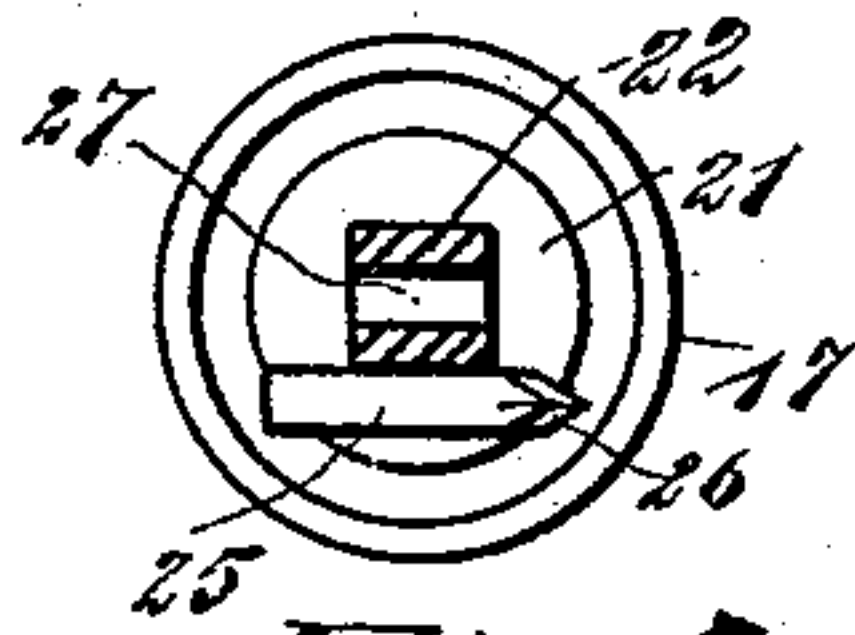
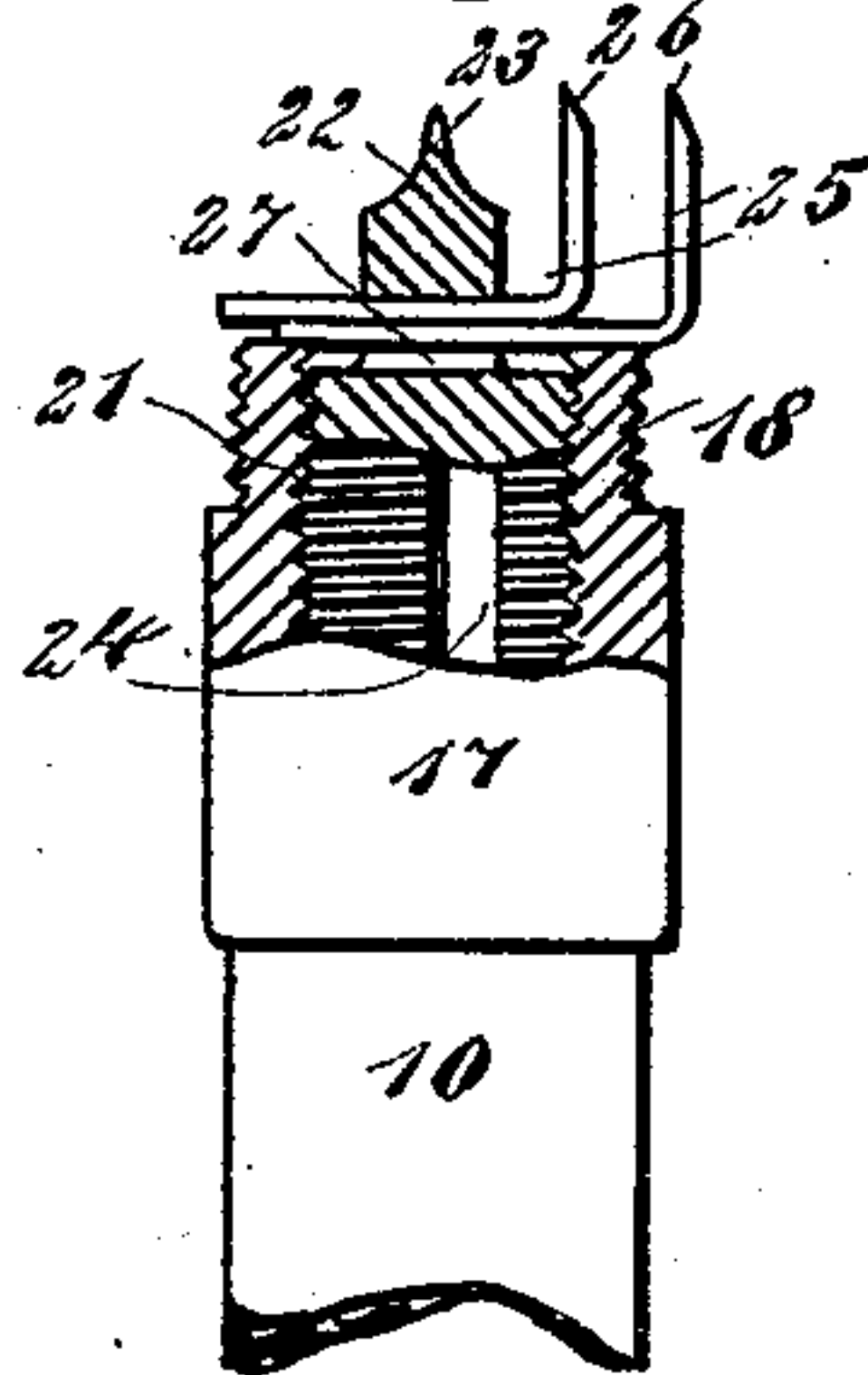


Fig. 5.



WITNESSES:

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THOMAS THOMPSON, OF NEW LONDON, WISCONSIN.

## WASHER-CUTTER AND CARRIAGE-TOOL.

SPECIFICATION forming part of Letters Patent No. 492,640, dated February 28, 1893.

Application filed March 9, 1892. Serial No. 424,309. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS THOMPSON, of New London, in the county of Waupaca and State of Wisconsin, have invented a new and Improved Washer-Cutter, of which the following is a full, clear, and exact description.

My invention relates to improvements in carriage tools, and the object of my invention is to provide a tool which may be easily carried in a carriage, which may be conveniently adjusted so as to hold the shafts in a raised position when the carriage is not in use, which will hold the shafts securely so that they cannot be accidentally displaced, which is provided with a convenient form of wrench to apply to the axle nuts, and which has also a washer cutter at one end, by means of which washers for the axles or other parts of the carriage may be cut.

My invention is embodied in the construction and combination of parts hereinafter described and more specifically indicated in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figures 1 and 2 are side views of the tool. Fig. 3 is an enlarged longitudinal section of the washer-cutter. Fig. 4 is a cross section on the line 5—5 of Fig. 3. Fig. 5 is a detail sectional view of the washer-cutter, showing the cutters in position for use.

The tool has a body portion 10, which serves as a handle when the wrench is to be used. At the upper extremity of the body 10, is a ferrule 17, the upper portion of which is reduced and screw threaded, as shown at 18, so that a cover 19 may be screwed thereon, and this cover has on its top end, a small wrench head 20, which may be used for adjusting the nuts on the shafts or pole. The ferrule 17 is also interiorly screw-threaded, and screwed into it is a plug 21, which has on its outer end a post 22, terminating in a brad 23. The plug 21 has a longitudinal bore 24, arranged at one side of the post 22, and this bore is adapted to receive the shanks of the elbow cutters 25, these cutters being of a common kind and terminating at one end in cutting edges 26.

When the cutters are not in use, their shanks are thrust into the bore 24, as shown in Fig. 3, and the outer portions of the cut-

ters will thus lie flat upon the plug 21, as shown in Figs. 3 and 4, so that the cover 19 may be screwed to the ferrule 17.

The post 22, has a transverse slot 27, and when the cutters are to be used for cutting washers, they are withdrawn from the bore 24, their shanks are placed in the slot 27, so that the cutting edge of one will project beyond the cutting edge of the other, as shown in Fig. 5, and then by grasping the elbows of the cutters, the plug 21 is screwed inward so that the shanks of the cutters are held between the post and the outer end of the ferrule 17, as shown in Fig. 5, and the washer cutters are then ready for use. To use them the brad 23 is pushed downward upon a piece of leather, and the body 10 is revolved, thus swinging the cutting edges 26 of the cutters in a circle, and the inner cutter will cut the hole in the washer, while the outer cutter will sever the washer from the piece from which it is cut.

The tapered lower end 11 of the tool has a rubber block 12 affixed to it, and also a metal clasp, consisting of parts 13, 14, 15 and 16 as shown. These attachments enable the tool to be applied to a carriage, as shown in Fig. 1, for the purpose of supporting the thills, the rubber block being placed against the axle 31 and the clasp catching over the latter, while the upper end of the body 10 bears against the cross-bar 28<sup>a</sup> of the thills.

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

1. The combination, with the body of the tool, of an interiorly threaded ferrule secured to one end thereof, a plug having a longitudinal bore and a central projecting post with a transverse slot therein, said plug being adapted to screw into the ferrule, and elbow cutters having their shanks adapted to enter the bore of the plug and the slot of the post, substantially as described.

2. The combination, with the body of the tool, the threaded ferrule thereon, the plug secured in the ferrule, and cutters carried by said plug, of a cover applied to the ferrule, substantially as shown and described.

THOMAS THOMPSON.

Witnesses:

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