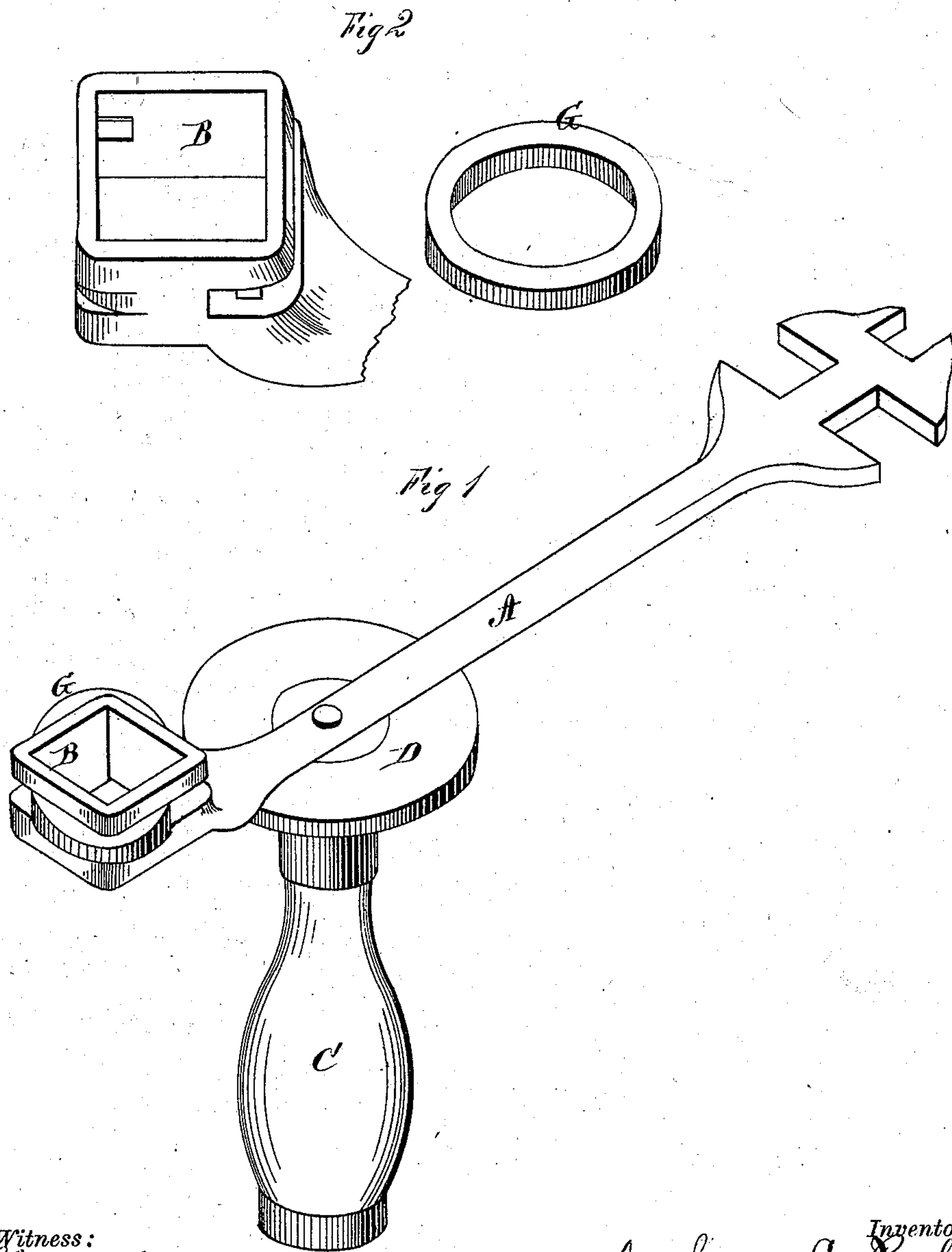


N. L. POST.

Wrenches.

No. 135,842.

Patented Feb. 11, 1873.



Witness:
Frank L. Curand
de L. Ewert.

Inventor.
Nathan L. Post.
per *Hander Mason*
Attorneys.

UNITED STATES PATENT OFFICE.

NATHAN L. POST, OF EAST CLEVELAND, OHIO.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. 135,842, dated February 11, 1873.

To all whom it may concern:

Be it known that I, NATHAN L. POST, of East Cleveland, in the county of Cuyahoga and in the State of Ohio, have invented certain new and useful Improvements in Wrenches; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the attachment of a handle to an ordinary carriage-wrench, and in the application of rubber in the wrench in such a manner that the nut will be held in the wrench without danger of falling out; all of which will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of my improved wrench, and Fig. 2 is an enlarged perspective of the wrench-head.

A represents an ordinary carriage-wrench, B being the head of the same for the nut on the axle. To the shank of the wrench A, a short distance from the head B, is fastened a handle, C, to be used by one hand in steadying the wrench while the other is engaged upon the shank loosening the nut. It will also be of use in assisting to unscrew the nut from the axle. The ferrule or socket of the handle C has a broad base, D, which is to keep the

hand from coming in contact with the wrench as it is turned around. The circumference of the head B has a continuous groove or two grooves partly around the circumference, as shown in Fig. 2, said groove at one or more points being cut through into the inside of the head. In this groove is placed a rubber ring, G, part of which projects into the head through the mortises or slots cut in the groove, so that the rubber by its elasticity will crowd the nut enough to hold it fast in the wrench after it is detached from the screw.

Rubber may be applied in any other suitable manner in the wrench-head for the same purpose without departing from the spirit of my invention; and hence I do not confine myself to the particular mode of applying it here shown and described.

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

1. The wrench A, when used in combination with a handle, C, pivoted to the same, as and for the purposes set forth.

2. The head B of a wrench, constructed as herein described, and used in combination with an elastic or flexible ring or block, G, as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of December, 1872.

NATHAN L. POST.

Witnesses:

C. L. EVERT,
LEWIS W. FORD.