

(No Model.)

J. R. HOPKINS.

COMBINED WRENCH AND SPANNER.

No. 347,042.

Patented Aug. 10, 1886.

Fig: 1.

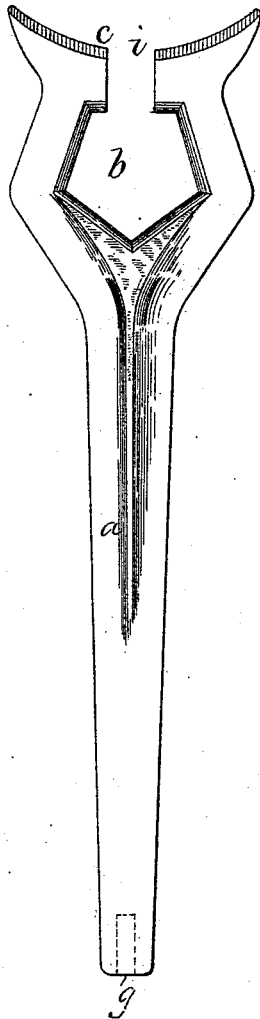


Fig: 2.

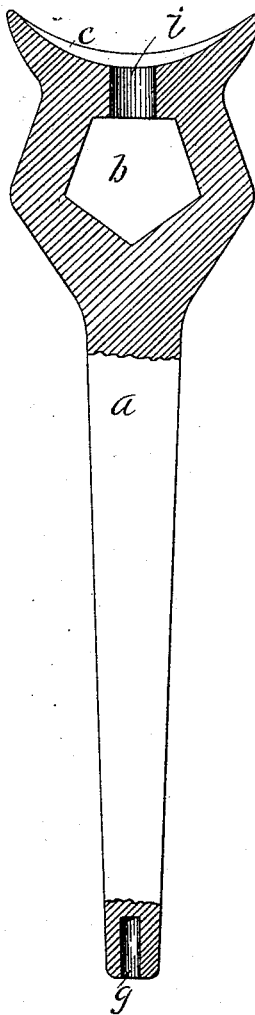
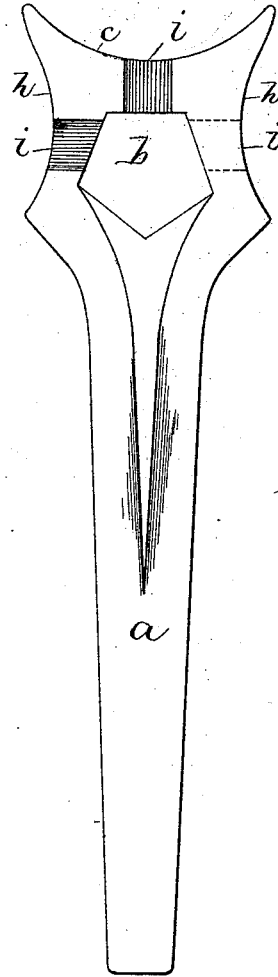


Fig: 3



Witnesses:
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UNITED STATES PATENT OFFICE.

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COMBINED WRENCH AND SPANNER.

SPECIFICATION forming part of Letters Patent No. 347,042, dated August 10, 1886.

Application filed June 3, 1886. Serial No. 203,996. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. HOPKINS, of Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Combined Wrench and Spanner, of which the following is a specification.

My invention relates to appliances employed particularly by firemen to fasten and unfasten the couplings of hose, and in manipulating the plugs or other parts of hydrants and other contrivances used in connection with fire-hose and hose-couplings.

It is the object of my invention to provide an implement for the use mentioned which shall combine in a single device the capabilities or adaptations which are now embodied in not less than two, and by which the utility of the implement will be greatly enhanced and a saving of time effected in its use—matters of great importance, especially to firemen, as will be readily understood by those skilled in the art.

To the foregoing ends my invention consists in an improved device combining a wrench and spanner, as hereinafter fully described, and subsequently set forth in the claims.

Of the drawings hereto annexed and forming a part of this specification, Figure 1 represents a side elevation of one form of my invention. Fig. 2 represents a like view, partly in section, showing a slightly-different construction. Fig. 3 represents a side view showing another form of the invention.

The same letters of reference indicate the same parts in all of the figures.

In the drawings, referring to Figs. 1 and 2, *a* represents the handle of a wrench; *b*, an eye formed in the head of the same, of a size and form corresponding to the size and form of the nuts on the hydrant or other similar device. The upper or forward end of the head of the wrench is given a curved form, as represented at *c*, for the purpose of conforming it to the shape of a hose or hose-coupling. An improved eye or hole, *i*, is formed in this curved portion, as shown, which eye is adapted to be caught over the stud on the collar of the coupling, by which construction the implement is made to serve the purpose of a spanner for wrenching a hose-coupling fast or loose, as the

case may be. In the construction represented in Fig. 1 the eye *i* is formed by cutting away a portion of the metal between the eye *b* and the surface of the curved portion *c*. In Fig. 2 said eye *i* is formed by drilling or boring a hole through from the curved surface of the curved portion *c* to the eye *b*. When my invention is embodied in an implement of the form represented in Fig. 1, I preferably construct it of steel or other metal not easily broken.

In Fig. 3 I have represented still another form of the invention, in which I form the surfaces at the side *h* of the wrench-eye *b*, as well as the part *c* above the same, so that they will conform to the shape of a hose or hose-coupling where there are parts to be manipulated, and construct notches *i*, similar in size to and for a like purpose as eyes *b*, hereinbefore described. One of said notches may be constructed on one side of the wrench-head and the others on the other, as shown; or they may all be formed on the same side. The eyes *i* may be formed in either of the three ways represented in the drawings—that is, as shown in Fig. 2, by boring a hole through from the curved surface *c* to the eye *b*, or, as indicated in Fig. 1, by cutting away a portion of the metal between the curved surface *c* and eye *b*, or as represented in Fig. 3, where notches are formed in the side of the metal surrounding the eye *b*, two such notches or eyes *i* being formed in the side supposed to be turned toward the observer, and one indicated by dotted lines in the side turned from view. This latter construction is in most instances preferred, since it permits the implement, when used as a spanner, to be applied to the stud or collar of the coupling by a sidewise movement—an act or operation that can usually be most expeditiously accomplished. This last-described form of the invention permits the user to employ the implement as a spanner in any position that it may be found most convenient.

It is obvious that the implement may, if desired, be made "double-headed"—that is, with a head such as has been described on both ends of the handle *a*, so that if one should be accidentally broken in use the other may be employed without loss of time. As shown in

Figs. 1 and 2, the end of the handle may also be provided with an eye, *g*, though this is not an essential feature of the invention.

The value and utility of my invention will be understood by those skilled in the art without further explanation, as it is well known that firemen and oftentimes others are in frequent need of both a spanner and a wrench in the performance of their duties, and that much time may be saved, (a matter of supreme importance,) not to mention the convenience afforded by having both implements combined in one, as also by having the spanner formed on the same end of the implement with and at the side or end of the wrench or wrench-eye.

What I claim is—

1. A fireman's implement comprising a combined wrench and spanner, and consisting of a handle and head, the latter provided with an eye to fit on a nut or the head of a bolt, a por-

tion of the outer edge of said head opposite or at the side of said eye being given a curved form to conform to the shape of a hose or hose-coupling, said curved portion of the head being provided with an eye, *i*, adapted to be caught over the stud on collars or couplings of hose, as and for the purpose set forth.

2. A combined hydrant-wrench and hose-spanner consisting of the handle *a*, having a head formed on one end thereof, which head is provided with the wrench-eye *b*, the curved surfaces *c h h* opposite or at the sides of said wrench-eye, and the eyes *i i i*, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 27th day of May, 1886.

JAMES R. HOPKINS.

Witnesses:

ARTHUR W. CROSSLEY,

C. F. BROWN.