

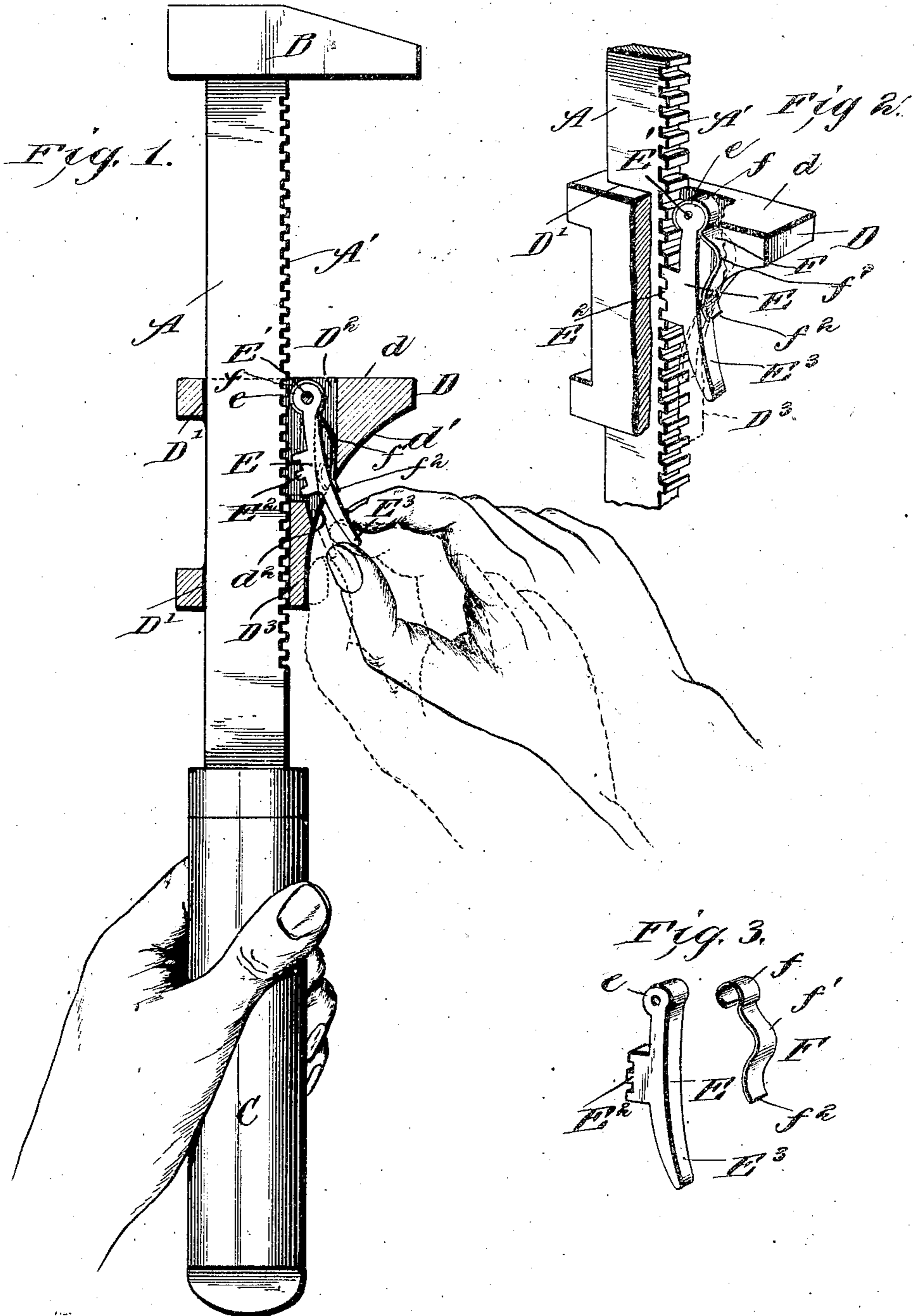
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E. A. RENOUF.
MONKEY WRENCH.

APPLICATION FILED SEPT. 25, 1903.

NO MODEL.



WITNESSES:

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EDWARD A. RENOUF, OF WELLSVILLE, OHIO.

MONKEY-WRENCH.

SPECIFICATION forming part of Letters Patent No. 754,346, dated March 8, 1904.

Application filed September 25, 1903. Serial No. 174,656. (No model.)

To all whom it may concern:

Be it known that I, EDWARD A. RENOUF, a citizen of the United States, and a resident of Wellsville, in the county of Columbiana and State of Ohio, have made certain new and useful Improvements in Monkey-Wrenches, of which the following is a specification.

My invention is an improvement in monkey-wrenches, and has for an object to provide novel constructions for securing the movable jaw and for use in adjusting or moving the said jaw along the toothed wrench-bar; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a sectional side elevation of the wrench, a portion of the hand of the operator being shown grasping the pawl and holding the same out of engagement with the teeth of the wrench-bar. Fig. 2 is a detail perspective view of a portion of the wrench-bar and the movable jaw, partly in section, with the pawl and spring in place; and Fig. 3 is a detail perspective view showing the pawl and spring removed from the jaw.

The wrench has the wrench-bar A, provided at one end with the fixed jaw B and at its other end with the handle C. The bar A is toothed along its inner edge at A', and the movable jaw D embraces and slides along the bar A and may be secured in any suitable position by the means presently described. This jaw D has an opening D', receiving the bar A, and is also provided above the toothed edge A' of the bar with a recess D², opening at one end out of the operating-face d' of the jaw D adjacent to the bar A and communicating through an opening d² with the rear face d' of the jaw D. The jaw D has a rear extension D³ toward the handle C, and the opening d² is at the juncture of the extension D³ with the rear face d' of the jaw D.

The pawl E operates in the recess D², being pivoted at E' within said recess near the working face d' of the jaw D, and is provided at about its middle with the teeth E² to engage the teeth A' of the bar A and has at its rear end the handle E³, which extends through the opening d² and overlies the extension D³ of

the fixed jaw. This pawl is normally actuated into engagement with the teeth A' by means of the spring F, which bears between the pawl E and the movable jaw and presses the said pawl E into engagement with the toothed bar. The pawl E has at its pivoted end a rounded head e, and the spring F is provided at its front end with a rounded portion f, embracing and fitting upon the head e of the pawl E and securing the spring F at one end in place. Between its ends the spring F has an upwardly-curved portion f', which extends up to and bears against the upper wall of the recess D², and the free end of the spring F bears at F² upon the pawl in such manner as to force the pawl into engagement with the wrench-bar A in the use of the invention. This construction is simple, can be easily connected and applied for use, and operates to securely hold the spring in the desired relation to both the movable jaw and the pawl, as shown in the drawings.

It will be noticed the pawl lies mainly within the recess D², while its rear end is extended to a position to overlie the extension D³ of the movable jaw, so the finger of the operator pressing beneath the handle E³ of the pawl E may rest upon the extension D³ and will not come in contact with the toothed edge of the bar A of the wrench. Also by the described construction the operator can, as shown in Fig. 1, grasp the handle end of the pawl E and release said pawl and then move the jaw D along the bar A to any desired position.

By constructing the recess D² to open at one end out of the working face d' of the jaw D the pawl E, with the spring attached, can be readily inserted to the position shown in Fig. 1 and the pivot-pin E' be applied through the side of the jaw D and through the pawl E in assembling the parts as desired.

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

1. The improvement in wrenches herein described comprising the toothed bar having the fixed jaw, the movable jaw having an opening receiving said bar and a recess extending from said opening, an opening being

provided in the rear face of the jaw leading
to said recess and the jaw being provided with
an extension at its rear side beyond said open-
ing, the pawl toothed to engage with the
5 toothed wrench-bar and having at its front
end a rounded head and pivoted at such end
within the recess in the movable jaw adjacent
to the working face of said jaw and extend-
ing at its rear end through the opening in the
10 rear face of the movable jaw and overlying
the rear extension of said jaw whereby the
finger of the operator may operate between
such extension and the rear or handle end of
the pawl, and the spring having at its front
15 end a rounded portion fitting on the rounded
head of the pawl and having an upwardly-
projecting portion bearing against the wall of

the recess in the movable pawl and an end
portion bearing against the pawl to actuate
the same substantially as set forth. 20

2. The combination with a wrench-bar and
the jaw sliding thereon and having an open-
ing for the pawl, of the pawl pivoted at one
end in said opening and the spring embracing
the pivoted end of the pawl and having a 25
bowed portion bearing between the handle end
of the pawl and the outer wall of the opening
which receives the pawl whereby to actuate
the pawl into engagement with the wrench-
bar substantially as set forth.

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Witnesses:

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