No. 850,869. PATENTED APR. 16, 1907.

E. HUNTLEY.

WRENCH.

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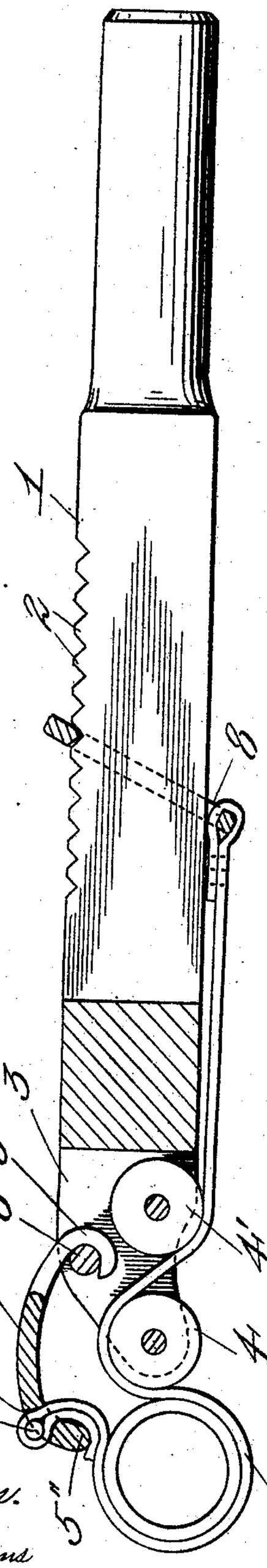

Fig. 1

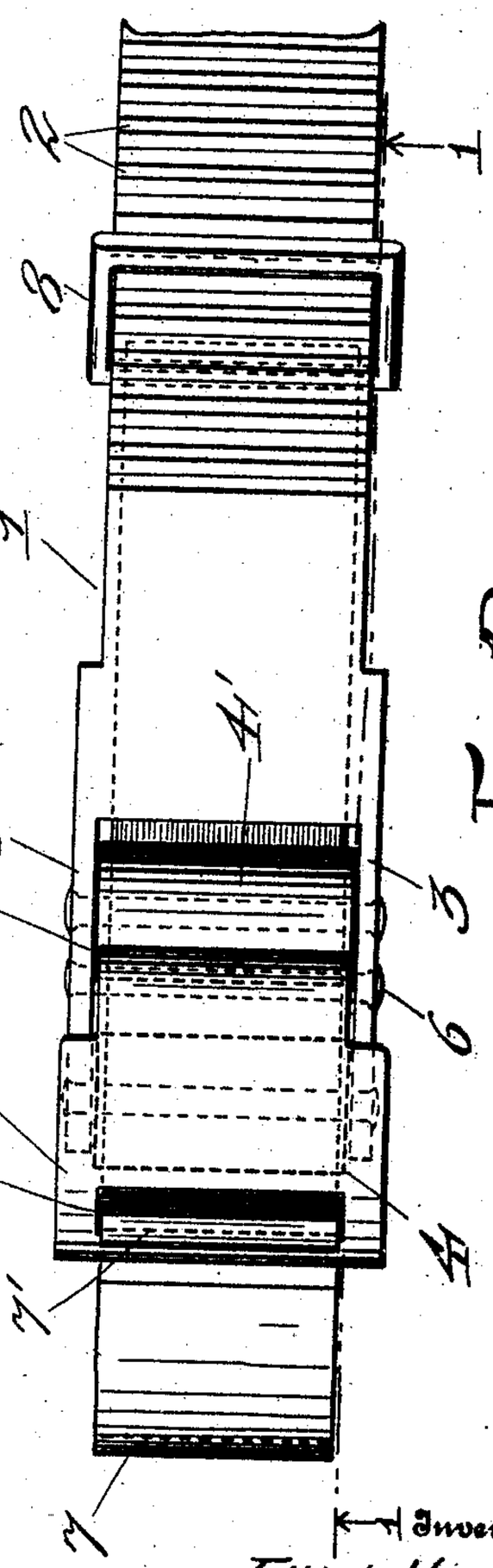

Fig. 2

Witnesses

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WRENCH.

No. 850,869. Specification of Letters Patent. Patented April 16, 1907.

Application filed December 11, 1905. Serial No. 291,332.

To all whom it may concern:

Be it known that I, ELIJAH HUNTLEY, a citizen of the United States of America, and a resident of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

My invention relates to improvements in wrenches, and has for its primary object the provision of a simplified construction which will be comparatively inexpensive to manufacture.

With the above and other objects in view, to be referred to in the following description, the invention consists of the construction, parts, and combination of parts hereinafter described, and succinctly defined in the appended claim.

In the accompanying drawings, in which like numerals of reference indicate like parts throughout the several views, Figure 1 is a side view, in partial section, taken on line 1 1 of Fig. 2; and Fig. 2 is a top plan view of my improved wrench.

In carrying out my invention I provide a handle 1, having transversely-disposed teeth, as 2, on its upper face, and at the head end of the handle are opposite extensions 3, in which are journaled bearing members consisting of rollers 4 4′, disposed in proximity to the lower face of the handle.

Reference-numeral 5 indicates a rigid support which is swingingly connected with the handle 1, the same having its rear or inner end shaped in the form of a hook, as 5′, for engagement with a transverse pin 6, secured in the extensions 3 above and to the rear of roller 4. The support 5 is provided with a bearing member or part 5″, this, as now considered, being formed by bending inwardly the end portion of the support.

Reference-numeral 7 indicates a flexible gripping member, which preferably consists of a suitable length of textile material, the same having its outer portion secured to the support 5 to the rear of its bearing member 5″ and passing over roller 4 and under roller 4′ and having its inner end portion secured to a catch 8, which freely receives the handle and engages the teeth thereof.

The gripping member is secured to the support 5 by a keeper 7′, a portion of said member being doubled and passed through an opening 7″ in the support to provide a loop or fold for the reception of said keeper, and this loop or fold is preferably formed a convenient distance from the outer end portion of the gripping member, so that the latter can be arranged beneath the bearing member of the support to prevent any possible injury being inflicted thereby to that portion of the gripping member which encircles the article being gripped.

In applying the wrench the catch 8 is slipped forwardly and the support unhooked from the pin 6, passed around the article to be gripped—for example, a pipe, (see Fig. 1)—and then again engaged with the pin 6. Any slack in the gripping member is then taken up by shifting the catch rearwardly.

In operating the wrench to turn the article the handle is grasped and forced downwardly, the axle of roller 4 acting as a fulcrum, and the strain thus imposed on the handle draws the support toward the bearing member 4, and the gripping member being connected to said support will pull the same toward the article and be impinged tightly thereagainst by the bearing member 5″ of the support. By providing two rollers 4 4′ and having the flexible gripping member 7 passed over one and under the other, as hereinbefore described, said gripping member will be more or less bound between said rollers during operation of the wrench and the catch 8 thereby relieved of strain. In addition to this function roller 4′ guides the flexible gripping member free of the lower edge of the head end of the handle.

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

A wrench comprising a handle provided at one end with opposite extensions, a bear-

ing member consisting of roller journaled between said extensions, a rigid support pivoted between said extensions above said bearing member and projecting forwardly thereof, said support having on its free end portion a downwardly-projected bearing member opposed to said first bearing member, and a flexible gripping member passing between said bearing member in engagement therewith and being formed into a loop beyond the same.

Signed at Seattle, Washington, this 4th day of December, 1905.

ELIJAH HUNTLEY.

Witnesses:
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