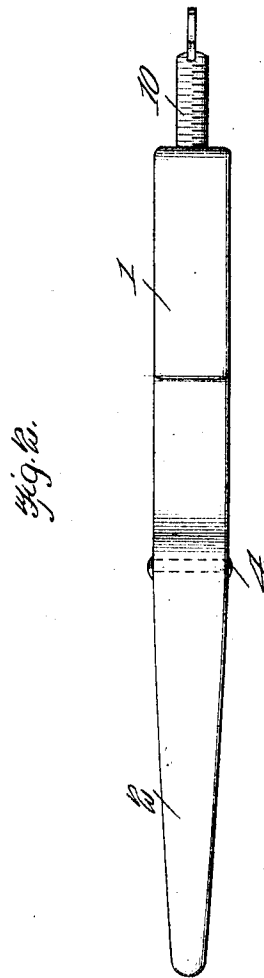
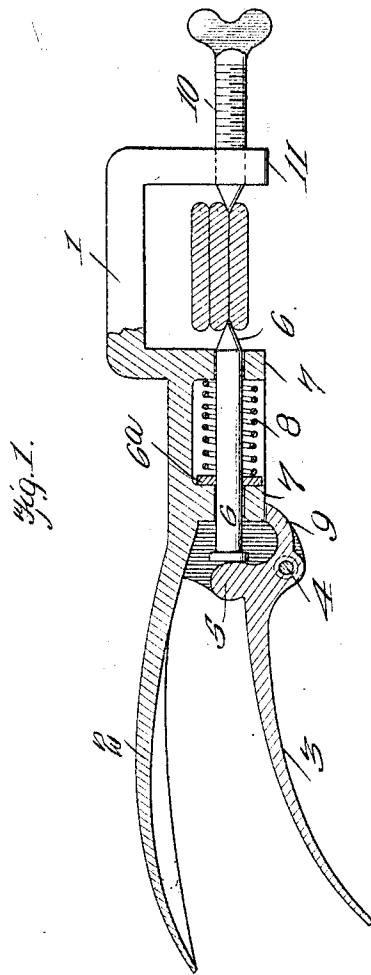


H. HUTCHINSON.
 TOOL FOR USE IN OILING LEAF SPRINGS.
 APPLICATION FILED OCT. 12, 1912.

1,048,412.

Patented Dec. 24, 1912.



WITNESSES
E. J. Callaghan
Amos W. Hart

INVENTOR
HARRY HUTCHINSON,
 BY *Munn & Co.*
 ATTORNEYS

UNITED STATES PATENT OFFICE.

HARRY HUTCHINSON, OF SYRACUSE, NEBRASKA, ASSIGNOR OF ONE-FOURTH TO ELMER H. FINIGAN AND ONE-FOURTH TO DEAN MARSHALL, BOTH OF SYRACUSE, NEBRASKA.

TOOL FOR USE IN OILING LEAF-SPRINGS.

1,048,412.

Specification of Letters Patent.

Patented Dec. 24, 1912.

Application filed October 12, 1912. Serial No. 725,418.

To all whom it may concern:

Be it known that I, HARRY HUTCHINSON, a citizen of the United States, and a resident of Syracuse, in the county of Otoe and State of Nebraska, have invented an Improved Tool for Use in Oiling Leaf-Springs, of which the following is a specification.

My invention is a hand tool for separating the leaves of elliptic or semi-elliptic carriage springs sufficiently to permit the introduction of oil or other lubricant between them for the purpose of relieving friction between the leaves and enabling them to slide easily on each other.

The details of construction and operation of the tool are as hereinafter described, and illustrated in the accompanying drawing, in which—

Figure 1 is mainly a longitudinal section of the tool, the same being shown applied to a leaf spring shown in cross section. Fig. 2 is a plan or edge view of the tool.

The body or frame 1 of the tool has two lateral bends or recesses arranged side by side, the larger one being adapted to receive a leaf spring, as indicated in Fig. 1. The frame 1 has a rigid handle extension 2 which is practically in alinement with it. The other handle 3, arranged opposite the handle 2, is pivoted at 4 at the rear end of the frame 1 and provided with an inwardly projecting lug 5 which is adapted to bear against the flanged head of a pin or rod 6 that is held slidably in perforated lugs 7 on the frame and which traverses the smaller recess arranged in rear of the larger one before referred to. A spiral spring 8 encircles the portion of the pin 6 which traverses the smaller recess, and which presses against a collar 6^a which is fixed on the pin. The result of this arrangement and connection of parts is that the spring holds the pin 6 normally retracted and pressed against the short arm of the handle 3. The latter is, however, extended forward of the

pivot, as indicated at 9, and bears against the rear lug 7 of the frame, which prevents the handles separating too widely. A pointed screw pin 10 is arranged in the outer end of jaw 11 of the frame and opposite to and in alinement with the opposite pin 6.

In practical use, the recessed portion of the frame 1 is placed over a series of leaves comprising a carriage spring, the screw pin 10 having been retracted sufficiently for this purpose. Said pin is then rotated to force its point into contact with the spring, that is to say, into the groove between two leaves which lie in contact. Then, by compressing the handles 2 and 3, manually, pressure is applied to the pin 6, thus causing both pins 6 and 10 to wedge between adjacent leaves of the spring and force them slightly apart, or sufficiently to permit the introduction of oil or other lubricant. Upon releasing the pressure on the handles, the slidable pin 6 is retracted and pressure on the spring relieved.

What I claim is:—

The tool for use in oiling leaf springs, 70 comprising a frame having a handle extension and two lateral recesses, the larger recess being adapted to receive a leaf spring, a pointed screw pin arranged in the outer jaw of the frame and its pointed end projecting into the larger recess, another pointed pin arranged slidably in the frame opposite to and in alinement with the screw pin and traversing the smaller recess of the frame, a spiral spring encircling such slidable pin within said recess, and a movable handle pivoted to the frame in rear of the slidable pin and provided with an inwardly projecting lug adapted to bear against said pin, as described.

HARRY HUTCHINSON.

Witnesses:

OLIN O. WILLS,
EUNICE FERGUSON.