

UNITED STATES PATENT OFFICE.

PERRY M. IRISH, OF BOONEVILLE, CALIFORNIA, ASSIGNOR OF ONE-FOURTH
TO MRS. JAMES E. REILLY, OF CHRISTINE, CALIFORNIA.

DRAG-SAW HANDLE.

SPECIFICATION forming part of Letters Patent No. 754,312, dated March 8, 1904.

Application filed January 31, 1903. Serial No. 141,362. (No model.)

To all whom it may concern:

Be it known that I, PERRY M. IRISH, a citizen of the United States, residing at Booneville, in the county of Mendocino and State of California, have invented certain new and useful Improvements in Drag-Saw Handles, of which the following is a specification.

This invention provides novel means for securing the saw-blade in an adjusted position with reference to the handle, so that the latter may be in the plane of the saw-blade or occupy any angular position with reference thereto as found most advantageous and convenient to the user.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a handle embodying the invention. Fig. 2 is a vertical longitudinal section. Fig. 3 is a perspective view of the handle-frame. Fig. 4 is a perspective view of the saw end.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The handle-frame 1 is provided at one end with a handle-clamp and at the opposite end with saw-clamping devices and its body portion is elongated and provided with a central longitudinal opening 2, intersected by transverse openings 3, located near the extremities of the said frame and adapted to receive nuts 4, by means of which the terminal clamp devices are tightened and loosened. The handle-clamp comprises a fixed jaw 5 and a movable jaw 6, provided with a stem 7, loosely fitted in an end portion of the longitudinal opening 2 and threaded into the adjacent nut 4, by means of which the jaw 6 is moved in or out, according as the handle 8 is to be clamped or released.

The handle 8 is preferably of wood and of a length to admit of easy manipulation of the saw and is provided at a point between its ends with an opening for reception of the stem 7, which in conjunction with the jaws 5 and 6 secure the handle against casual displacement. The handle may be removed from the frame by turning the nut so as to release the stem 7, after which the jaw 6 may be drawn outward and the handle disconnected from the frame. The opposite end of the handle-frame is preferably made circular and provided in its outer face with a series of radial grooves 9 for cooperation with oppositely-disposed cogs 10 to secure the saw-blade 11 in the required position with reference to the handle 8. The cogs 10 are formed on the inner or rear side of a circular enlargement 12 of a bar 13, the parts 12 and 13 constituting the saw end, which is loosely mounted upon the stem 14, loosely inserted into the opposite end of the longitudinal opening 2 and threaded into the other one of the nuts 4. The outer end of the stem 14 is longitudinally split to receive and embrace sides of the saw-blade and is secured thereto by the pin or fastening 15, passed through corresponding openings formed in the separated parts of the stem and saw-blade. A groove 16 is formed in the outer face of the saw end to receive the extremity of the saw-blade, whereby the latter is held in fixed relation with reference to the saw end. By turning the nut mounted upon the threaded end of the stem 14 in one direction the saw end is loosened so as to admit of the cogs 10 clearing the grooves 9, whereby the saw-blade may be turned so as to occupy any angular position with reference to the handle. By turning the said nut in the opposite direction the saw end is drawn tight against the handle-frame and interlocks therewith by entrance of the cogs 10 into the matching grooves 9 in register therewith.

By having the clamping devices at opposite ends of the handle-frame independent of each other either one may be operated without interfering with the other, which is of material advantage, and, moreover, repairs may be more cheaply made than if both sets

of clamps coöperated with a part common to each. The saw end is of such construction as to admit of it being fitted to the saw-blade with either end pointing toward the toothed edge, and the handle may be fitted to the handle-clamp by being inserted between the jaws of either end.

Having thus described the invention, what is claimed as new is—

10 1. A handle for drag-saws comprising a handle-frame, a handle-clamp at one end and saw-clamp devices at the opposite end of said frame, and independent means applied to the handle-frame for operating the said clamp de-
15 vices, substantially as set forth.

2. In a handle for drag-saws comprising a handle-frame having a longitudinal opening and intersecting transverse openings, nuts fitted into the said transverse openings, and
20 clamp devices at opposite ends of the handle-frame, each comprising a stem loosely fitted into an end portion of said longitudinal opening and making screw-thread connection with the respective coöperating nuts, substantially
25 as set forth.

3. In a handle for drag-saws, a handle-frame having a longitudinal opening and an intersecting transverse opening and provided at one

end with a fixed jaw, a handle having an opening, a movable jaw provided with a stem
30 passed through the opening of the handle into the opening of the handle-frame, and a nut located in the transverse opening of said handle-frame and having screw-thread connection with the said stem of the movable jaw, sub-
35 stantially as and for the purpose set forth.

4. In combination, a handle-frame provided at one end with an enlargement formed in its outer side with a series of grooves and hav-
40 ing a longitudinal and transverse opening, a stem loosely fitted into the longitudinal opening of the handle-frame, a nut mounted upon the inner end of the said stem and located in the transverse opening of the handle-frame and threaded upon the said stem, and a bar
45 fitted to the end of the saw and having its intermediate portion widened and loosely mounted upon the aforementioned stem and having cogs to interlock with the grooves at the end
50 of the handle-frame, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

PERRY M. IRISH. [L. s.]

Witnesses:

F. W. IRISH,
O. S. BROWN.