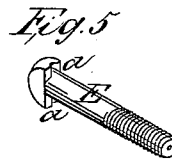
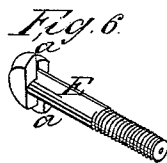
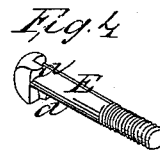
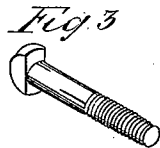
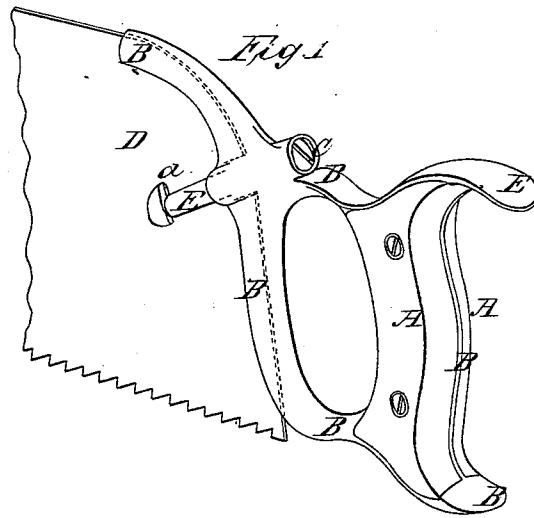


J. E. Emerson,
Saw Handle,
No 82,299, Patented Sep. 22, 1868.



Witnesses
J. P. Platten
S. M. Doe

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United States Patent Office.

JAMES E. EMERSON, OF TRENTON, NEW JERSEY.

Letters Patent No. 82,299, dated September 22, 1868.

IMPROVEMENT IN HAND-SAWS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES E. EMERSON, of Trenton, in the county of Mercer, and State of New Jersey, have invented a new and useful Improvement in Fastening Saws to their Handles; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a handle, with a section of a saw attached thereto by the improved fastening in question.

Figure 2 represents a section through the nut, by which the screw-fastening is drawn up.

Figure 3 represents a screw-bolt, by which a saw has been heretofore held to its handle.

Figures 4, 5, and 6 represent modifications of the improved screw-bolt fastening which I have invented.

A screw-bolt has heretofore been used for fastening a saw to its handle, but it had no means of holding itself from turning when the screw-driver was used on the nut by which said screw-bolt and the saw were drawn up tight and held to or in the handle. I do not claim such a screw-bolt, nor do I claim generally the handle, saw-plate, and screw-bolt fastening, when such bolt has no means of being held against the action of the nut when it is turned by a screw-driver, wrench, or otherwise.

My invention consists in the use or application of a shouldered, recessed, or headed screw-bolt, for holding a saw to its handle, said shouldered, recessed, or headed bolt being prevented from turning by the act of running the nut up or back by its shoulders, recesses, or heads taking against the saw-plate.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The handle of the saw is made partially of wood, A, and partially of metal, B, the metal portion being of malleable iron, and cast, or of brass, if so preferred, and furnished with a slot or recess that will take in the end of the saw. It also has a recess or socket cast in it, into which a nut, C, is set against a shoulder in the socket.

The saw-blade D has a T-shaped opening made in it, the stem of which extends to the end of the saw, so that the head and shank of a screw-bolt may lie therein.

A headed screw-bolt, such as that shown at fig. 3, has heretofore been used, and drawn up by a nut, C, in the socket of the handle, but the bolt would turn under the action of the nut, and its head would turn out of the opening, or be skewed therein, and unsightly.

The screw-bolt E, shown in place in fig. 1, has shoulders, *a*, on opposite sides of its head, which take, one against one side of the saw-plate, and the other against the opposite side thereof, so that when said bolt is drawn up by turning the nut C, said bolt is prevented from turning therewith.

The bolts E, shown in figs. 4, 5, and 6, are but modifications of that shown in place in fig. 1, in which modifications *a a* represent the projections or shoulders which take on or against opposite sides of the plate, and prevent the bolt from turning under the action of the nut. In fig. 6, the head appears as though divided, and one-half slipped past the other half to form these shoulders. In fig. 5, the slots or notches *a* take in the saw-plate, and consequently prevent the bolt from turning.

Other forms of bolt-heads may be made, but all involve the general plan of shoulders, recesses, or slots, that prevent the bolt from turning under the action of the nut, which, in this case, is nicked, so as to be turned with an ordinary screw-driver.

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

A shouldered and headed screw-bolt for holding a saw to its handle, so that said screw-bolt may be held from turning under the action of the nut, and constructed to operate as and for the purpose herein described and represented.

J. E. EMERSON.

Witnesses:

A. B. STUGHTON,

GEO. HOWARD ELLERS.