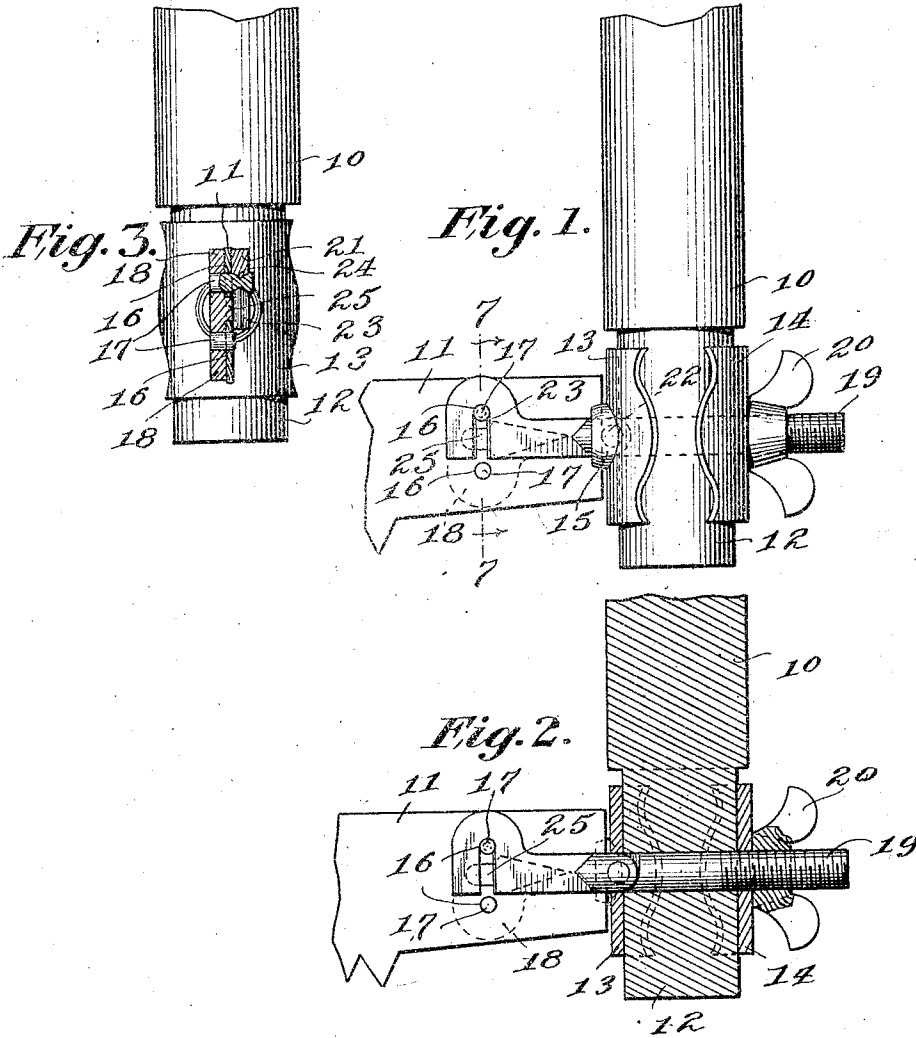


H. L. SMITH.
DETACHABLE SAW HANDLE.
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Patented Dec. 17, 1912.

1,047,714.



Inventor
Henry L. Smith

Witnesses

H. H. Lybrand
F. O. Tander

By *Victor J. Evans*
Attorney

UNITED STATES PATENT OFFICE.

HENRY L. SMITH, OF HAVANA, FLORIDA.

DETACHABLE SAW-HANDLE.

1,047,714.

Specification of Letters Patent.

Patented Dec. 17, 1912.

Application filed March 22, 1911. Serial No. 616,142.

To all whom it may concern:

Be it known that I, HENRY L. SMITH, a citizen of the United States, residing at Havana, in the county of Gadsden and State of Florida, have invented new and useful Improvements in Detachable Saw-Handles, of which the following is a specification.

The invention relates to saw handles and more particularly to the class of detachable saw handles.

The primary object of the invention is the provision of a handle in which the saw blade may be readily and easily attached thereto and detached therefrom, the handle being applicable to various types of saw blades and more especially to cross-cut saw blades.

Another object of the invention is the provision of a handle which is so constructed as to be attachable to and detachable from any of the ordinary cross-cut saws without requiring the employment of tools.

A further object of the invention is the provision of a handle which is simple of construction, capable of being rigidly clamped to a saw blade and that is inexpensive in manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts, as will be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereunto appended.

In the drawings, Figure 1 is a side view. Fig. 2 is a central longitudinal sectional view thereof. Fig. 3 is a sectional view on the line 7-7 of Fig. 1.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings by numerals 10 designates a handle and 11 a saw blade the same being of the ordinary well-known form. Said handle 10 is provided with a reduced circular end 12 against which are fitted at diametrically opposite points thereof abutment plates 13 and 14 each being semi-circular in shape to snugly fit about the reduced end 12 of said handle. The abutment plate 13 is provided with a medially arranged lug or abutment 15 rising therefrom. This lug or abutment 15 is provided with a suitable channel or groove forming a seat for receiving an end of the saw blade.

The saw blade 11 is provided with spaced openings 16 in which are removably engaged holding studs 17 projecting outwardly from one face of an enlarged substantially elliptical-shaped cheek or extension 18 formed on an end of a threaded bolt 19 the same being detachably engaged in alining openings formed in the abutment plates 12 and 13 and the reduced end of the handle 10. The bolt 19 has engaged there-with on its threaded end a winged adjusting nut 20 which is adapted to work against the abutment plate 14, connecting the saw blade 11 to the handle.

Mounted for swinging movement upon the bolt 19 rearwardly of the cheek or extension 18 is a catch 21 the same being connected to the bolt 19 by means of a pivot 22. This catch 21 is adapted to lie on one side of the saw blade 11 while the cheek or extension 18 lies at the opposite side of the same, the catch 21 being provided with a notch 23 for receiving one of the studs 17, the stud engaged by the catch provided with a reduced portion 24 which is adapted to enter the notch 23 when the catch has been swung to a position for locking engagement with the said stud thereby fastening the handle rigidly with the saw blade.

The cheek or extension 18 between the lugs 17 is provided with a tapered medially arranged spear shaped boss 25 which is adapted to be snugly fitted within a correspondingly shaped slot formed in the saw blade 11, the boss 25 being adapted to prevent the turning of the handle or any displacement thereof when mounted on the saw blade. It will be obvious that this construction not only provides a very secure fastening means, but that the tapered spear shaped boss 25 being snugly fitted within the correspondingly shaped slot in the blade will prevent the blade from becoming disengaged from the handle should the latch 21 be accidentally removed from the studs 17.

What is claimed is:

The combination with a saw blade, of a handle, abutment plates mounted at diametrically opposite points on said handle and having alining apertures, a threaded bolt detachably engaged in the handle and passed through said abutment plates, said bolt being formed at one end to provide an enlarged rigid elliptical cheek having pro-

jecting spaced lugs engageable with said saw
blade, a tapered spear shaped boss formed
on said cheek and longitudinally disposed
between the said projecting lugs, said blade
5 being provided with an elongated slot cor-
responding in shape with the contour of the
said boss and adapted to snugly receive said
boss, and a catch pivoted to the bolt and

adapted to engage the said lugs substan-
tially as and for the purpose specified. 10
In testimony whereof I affix my signature
in presence of two witnesses.

HENRY L. SMITH.

Witnesses:

HENRY SMITH, Jr.,
J. E. D. GRAVES.