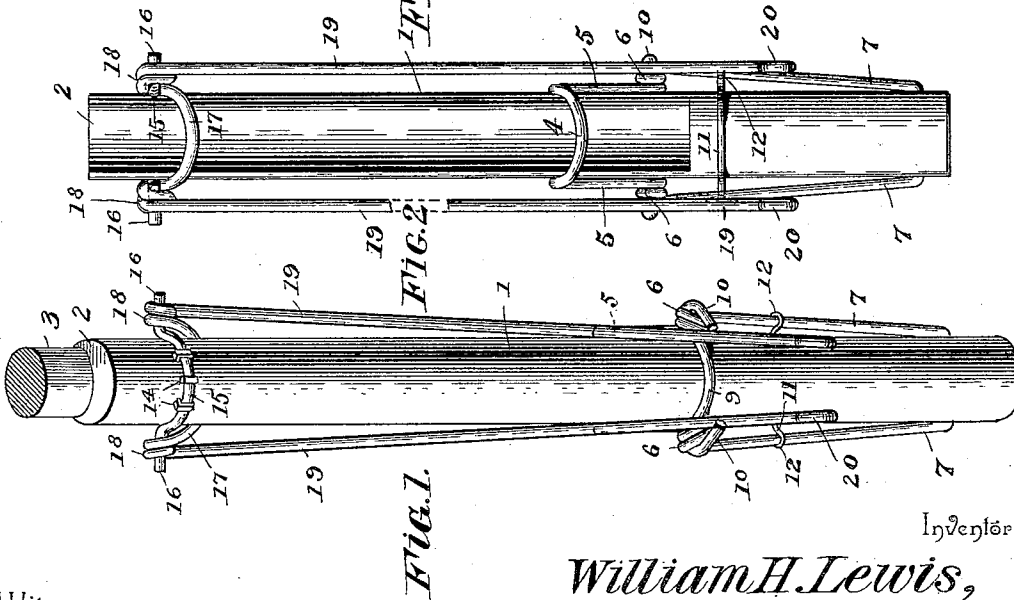
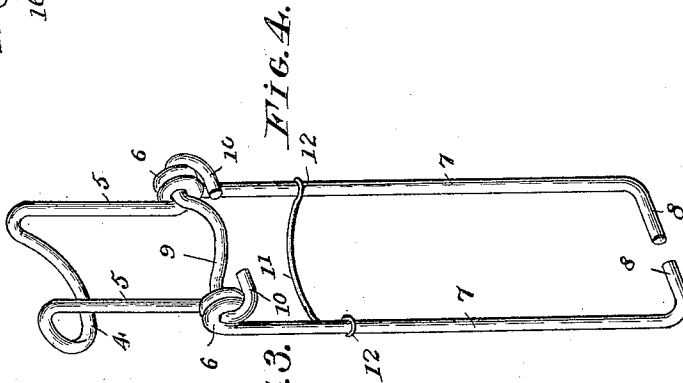
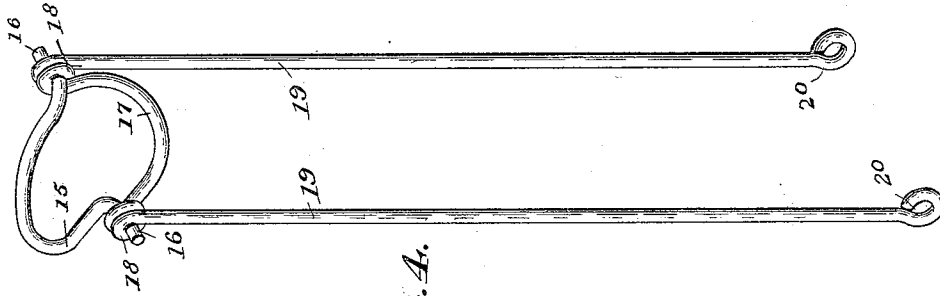


(No Model.)

W. H. LEWIS.
WOOD SPLICE.

No. 529,395.

Patented Nov. 20, 1894.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM H. LEWIS, OF ROME, NEW YORK.

WOOD-SPLICE.

SPECIFICATION forming part of Letters Patent No. 529,395, dated November 20, 1894.

Application filed December 7, 1893. Serial No. 493,058. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. LEWIS, a citizen of the United States, residing at Rome, in the county of Oneida and State of New York, have invented a new and useful Wood-Splice, of which the following is a specification.

My invention relates to improvements in splices, the objects in view being to provide a simple construction of splice adapted to be employed for connecting in a secure manner two sections or halves of a prop or a handle, or for securing the handles of brooms, mops, &c., to auxiliary handles, whereby the prop or handles are lengthened, adapting them for the use desired.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a perspective view of two sections of a prop, the same being connected by a splice embodying my invention. Fig. 2 is a side elevation of the lower portion of the prop, the upper portion being removed. Fig. 3 is a detail in perspective of the lower holding-portion of the device. Fig. 4 is a similar view of the upper clamping-portion.

Like numerals of reference indicate like parts in all the figures of the drawings.

As will be inferred from the description of the figures my invention comprises two essential parts, namely, the upper clamping-portion and the lower holding-portion. In the present instance 1 designates what may be the lower section of the prop or an auxiliary handle adapted to be applied to the handle of a broom, mop, or other device, and the same has one side near its outer or free end provided with a groove 2 extending a short distance inward and adapted to receive the upper section 3 of a prop or handle of a broom, mop, &c. The clamping member of the splice is located at the upper end of the groove, while the holding member is located near the lower end of the groove. In constructing this latter member, I employ a piece of stout wire or suitable gage and preferably brass, bending the same to form a loop 4 that spans or bridges the groove 2 near the

lower end thereof. The wire is bent at right angles to the loop 4 to form sides 5, which lie at each side of the groove and of the section 1, and about at the end of said groove. At the lower ends of the sides 5 the wire is coiled one or more times to form opposite eyes 6, beyond which they extend inwardly along the sides of the prop, as indicated at 7, and finally are inwardly bent to form engaging fingers or points 8, which take into the prop 1 at opposite sides thereof.

A tie-wire 9 is located upon that side of the prop opposite that upon which the loop 4 is located and below the same, and is bent as shown so as to embrace the prop and has its terminals bent at 10 and passed through the eyes 6 and forming hooks. A second tie-wire 11 is located below the groove 2 and has its terminals bent at 12 to engage the longitudinal extensions or arms 7 of the holding member. As thus constructed it will be seen that the loop 4 is, by reason of the coiled eyes 6, yieldingly pressed inward toward the groove 2, and is capable of being forced away from the groove 2, so as to receive and snugly embrace an extension of the prop or a handle as the case may be.

At the outer end of the prop-section or handle, at the opposite side at which the groove is located, a series of staples 14 are located, and the same serve to secure in position upon the prop a curved bearing-wire or tie 15 whose extremities are laterally extended at opposite sides of the groove 2, forming bearing-ends 16. A clamping-loop 17 arches the groove 2, is coiled about the bearings 16, as at 18, and is extended beyond the coils to form resilient longitudinal portions or extensions 19, which are bent at their extremities to form guards 20. The extensions 19 are disposed at an acute angle to the binding-loop 17, and when said extensions are swung inward and to the rear and engaged under the bent ends or hooks 10 of the tie-wire 9, the said loop 17 will clamp upon an extension of the prop or handle that may be located in the groove 2 and while the lower bearing acts as a spring-holder for the extension of the prop or handle, as the case may be, the upper member will clamp and secure the same in the holder.

The device being constructed wholly of

spring-wire will adapt itself to various diameters of handles or props and secure all alike snugly in position.

In operation, in order to connect the two members of a prop or apply the auxiliary handle to the regular handle of a mop, broom, or other device, the terminals 20 are disconnected from the bend 10 of the tie-wire and are swung outward in front of the groove 2. The extension or section of the prop is now inserted downwardly through the binding-loop 17, and the holding loop 4, the two loops yielding to its reception, after which the terminals 20 are swung to the rear so as to cause the loop 17 to bind or clamp upon the prop or handle and engaging with the bends 10 of the tie-wire become locked, and thus the parts are securely spliced or secured together.

It will be observed that my invention is extremely simple, may be cheaply manufactured, and is very convenient for the purpose for which it is designed.

I do not limit my invention to the precise details of construction herein shown and described, but hold that I may vary the same to any degree and extent within the knowledge of the skilled mechanic.

It will be observed that both members of the clamp are secured to the same or grooved section of the splice, so that the other may be withdrawn without disturbing the same.

Having described my invention, what I claim is—

1. A splice, comprising an extension handle, an upper clamping portion and a lower holding portion, each consisting of a bearing tie adapted to embrace one side of the handle, and a loop arranged at the opposite side of the handle fulcrumed on the ends of the bearing tie and provided with resilient extensions, and means for securing the extensions to the handle, substantially as described.

2. The splice consisting of an extension handle, the tie-wire 9 having its ends bent, as at 10, the holding-wire bent at its middle to form the holding-loop 4, the sides 5 at an angle to the loop, coiled about the bent ends 10 and extended therebelow to form the securing extensions 7, and a spring-clamp above the loop, substantially as specified.

3. The combination with the section 1, having the groove 2 near its outer end, the bearing-wire 15 having the opposite bearings 16 at the sides of the groove, the clamping loop arranged over the groove and coiled about

the bearings and provided with opposite longitudinal extensions 19, of the tie-wire 9 below the wire 15 and having bent ends 10 for engaging the extensions 19, the spring-loop 4 having the sides 5 coiled about the bent ends 10 and beyond the same forming extensions 7 secured to the section 1, and the tie-wire 11 below the groove and having its ends engaging the terminals 7, substantially as specified.

4. The combination with two sections to be spliced, of the lower holding portion comprising a wire tie terminating in hooks and embracing the lower section, a resilient clamping loop fulcrumed on the ends of said tie and embracing the upper section and terminating in depending resilient portions 7 secured to the lower section, and the upper clamping portion comprising a tie embracing the lower section, and a resilient clamping loop fulcrumed on the ends of the upper tie and embracing the upper section and having depending extended terminals interlocked with said hooks, substantially as described.

5. In a wood splice, the combination with the two sections to be spliced, of the upper clamping portion made up of a bearing wire, clamping loop and spring extensions, and the lower holding portion composed of the spring extensions, clamping loop, and a tie wire shaped at its ends to form guards to receive and retain the extensions of the upper clamping portion, substantially as specified.

6. A splice, comprising an extension handle, a lower holding portion mounted on the handle, an upper clamping portion separate from and independent of the lower holding portion, and consisting of a fulcrumed clamping loop, and opposite longitudinal arms, and means for securing the arms to the handle, substantially as described.

7. A splice, comprising an extension handle, a lower holding portion mounted thereon and provided with opposite hooks, and a separate and independent upper clamping portion comprising a fulcrumed clamping loop and longitudinal arms arranged to engage said hooks, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM H. LEWIS.

Witnesses:

J. S. DYETT,
F. M. SHELLEY.