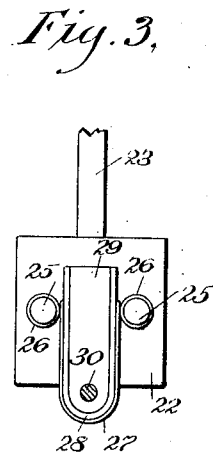
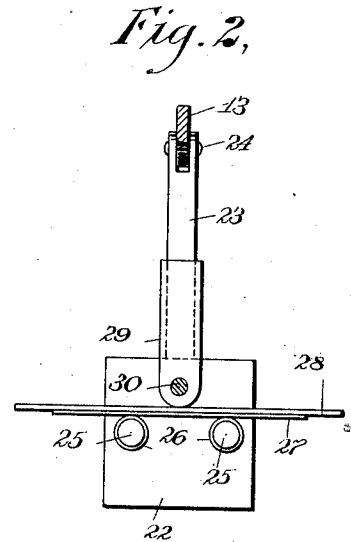
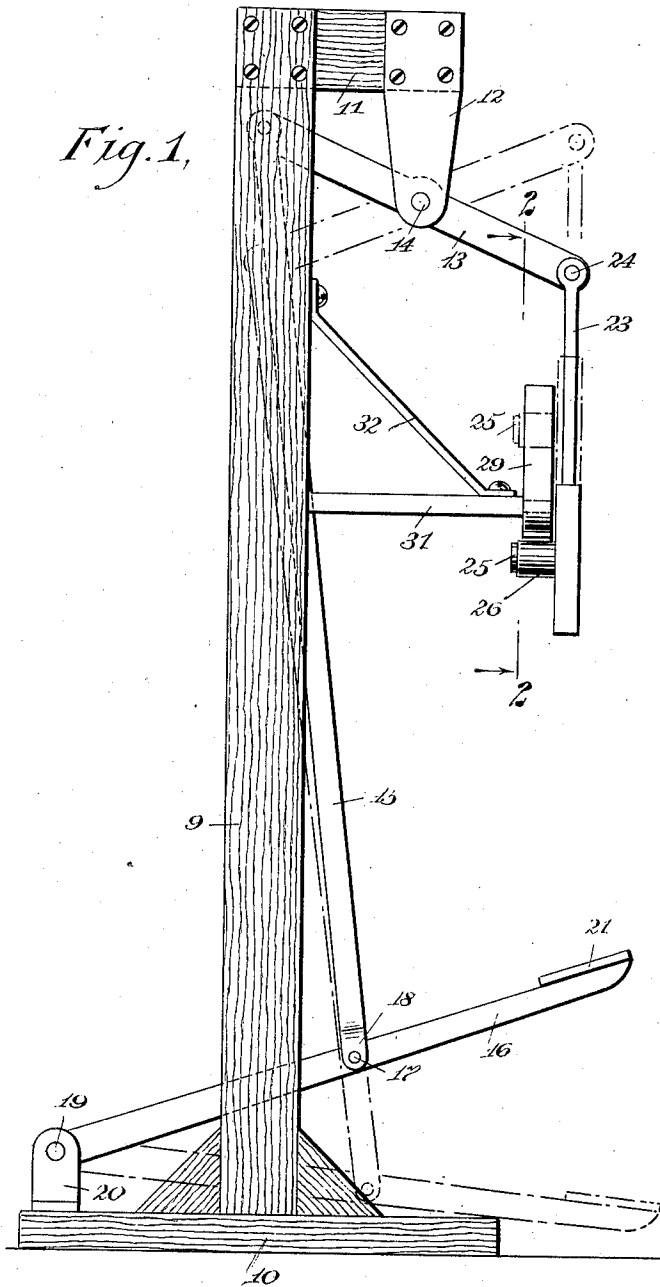


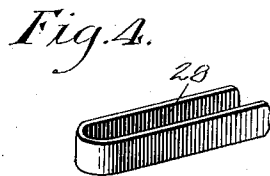
G. F. IVEY.
MACHINE FOR BENDING LUG STRAPS.
APPLICATION FILED FEB. 17, 1911.

1,042,921.

Patented Oct. 29, 1912.



WITNESSES
Edward Thorpe
E. M. M. M. M.



INVENTOR
George F. Ivey
BY *Mumford*
ATTORNEYS

UNITED STATES PATENT OFFICE.

GEORGE FRANKS IVEY, OF HICKORY, NORTH CAROLINA.

MACHINE FOR BENDING LUG-STRAPS.

1,042,921.

Specification of Letters Patent.

Patented Oct. 29, 1912.

Application filed February 17, 1911. Serial No. 609,111.

To all whom it may concern:

Be it known that I, GEORGE F. IVEY, a citizen of the United States, and a resident of Hickory, in the county of Catawba and State of North Carolina, have invented a new and Improved Machine for Bending Lug-Straps, of which the following is a full, clear, and exact description.

Among the principal objects which the present invention has in view are: to provide a machine for bending wooden lug straps for picker sticks of weaving looms simple and efficient in construction and operation; and to provide a method of bending wooden strips to form lug straps of the character mentioned to avoid splitting or marring the surface of the strips.

One embodiment of the present invention is disclosed in the structure illustrated in the accompanying drawings, in which like characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a side view of a machine constructed and arranged in accordance with the present invention; Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1, the strap being shown in the first step of the operation; Fig. 3 is a view similar to Fig. 2, illustrating the bent position of the wood forming the strap and means for holding the same; and Fig. 4 is a perspective view of the completed lug strap.

As shown in the drawings, a standing frame having a standard 9 is mounted on a base plate 10 and is provided at the upper end with a forwardly extended cross head 11. The cross head 11 is provided with bracket plates 12, between which is pivoted a rocking lever 13. The pivot supporting the lever 13 is a short shaft 14. The lever 13 is pivotally connected with a pitman rod 15 which is extended to and pivotally connected with a foot power lever 16. The pivotal connection between the lever 16 and the rod 15 is a pin 17, the lower end of the rod 15 being bifurcated to form a yoke 18. The lever 16 is mounted on a pivot shaft 19 in a bracket standard 20. By depressing a foot plate 21 of the lever 16 the outer end of the rocking lever 13 is lifted, as shown in the dotted position in Fig. 1 of the drawings. The object in lifting the outer end of the lever 13 is to raise the forming plate 22. The forming plate 22 is hung from the outer end of the lever 13 by means of a rod 23 which is pivoted at 24 in

supported relation upon the lever 13. The face of the plate 22 is provided with two studs 25, which form bearings for the rollers 26. The rollers 26 form supports on which are rested a sheet metal plate 27 and a wooden strip 28 from which the strap is formed. The strip 28 and metal plate 27 are so disposed when the plate 22 is in its lowered position, as shown in Figs. 1 and 2 of the drawings. In this position of the strip 28 the said strip will be found to pass below the rounded lower end of a pattern 29. The pattern 29 is pivotally held on a pin 30 which is set out from a bench 31. By thus pivoting the pattern 29 the upper portion of the same is permitted freedom of movement to swing on the said pivot, and so permit the same to adjust between the rollers 26 should the thickness of the strips 28 vary. The bench 31 is braced in position by means of a rod 32.

Prior to bending the strips 28 they are properly steamed or otherwise prepared to bend. The strips 28 and the metal plate 27 are placed in position simultaneously. When so disposed the operator by depressing the end of the lever 16 having the foot plate 21, lifts the forming plate 22, the rollers 26 passing to each side of the pattern 29 and bending the wood strip 28 and metal plate 27 firmly and evenly around the said pattern. At the completion of the upward stroke of the plate 22, as shown by dotted lines in Fig. 1 of the drawings, the studs 25 and the rollers 26 mounted thereon are adjacent the upper end of the strip 28 from which is formed the lug strap. By any suitable device the strap thus shaped is held prior to lowering the plate 22. In this position the wooden part of the strap is formed. In the completed strap a leather bumper is placed at the bent end and between the sides of the strap and therein secured by a rivet driven through the sides of the strap.

By using the metal plate 17 I prevent the rollers 26 from bedding into or mashing the fiber of the wood strip 28. I also, by reinforcing the surface of the wood, prevent the same from splintering or splivering. After each operation when the metal strip is not needed to reinforce the wood strip the said strips are removed and straightened.

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

In a machine for bending lug straps, the

combination of a standing frame; a pattern
block pivotally mounted on said frame to
extend above the pivot connection there-
with; a forming plate having an elongated
5 rod for hanging the same; a plurality of
bending studs extending from the face of
said plate to encompass said pattern block
when moved thereto; and a power mecha-
nism, embodying a series of levers, pivotally
10 connected with said hanging rod to move
the forming plate from a position where the
studs thereon are below the lower end of
said pattern block to a position adjacent

the upper end of said block, the lower posi-
tion of said plate being such as to permit
the studs to support the inbent strap, said
plate and rod being adapted to swing away
from said pattern block to receive said strap. 15

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses. 20

GEORGE FRANKS IVEY.

Witnesses:

A. A. SHUFRED, Jr.,
J. R. GANTT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."