June 20, 1944. A. J. MANSIR 2,351,691

LUMBER PULLER

Filed Aug. 13, 1943

Fig. 1.

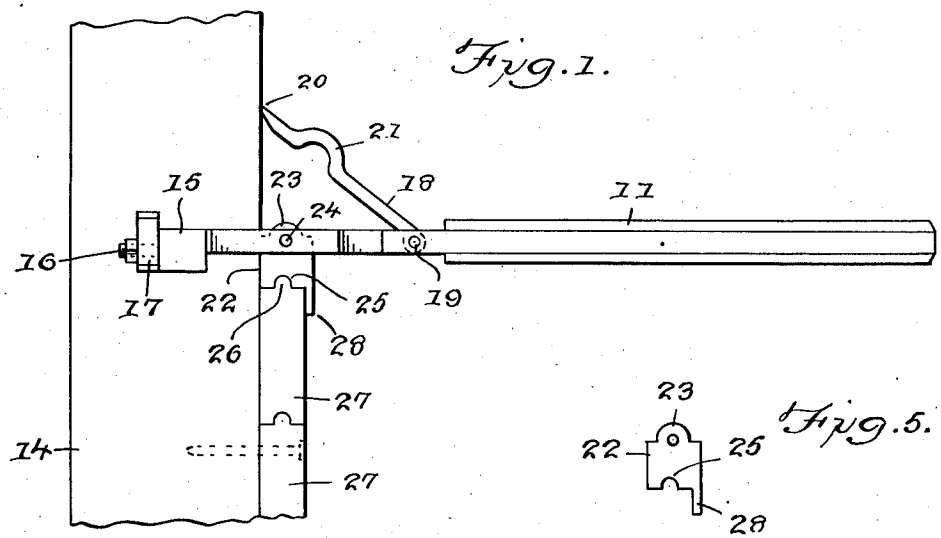


Fig. 5.

Fig. 2.

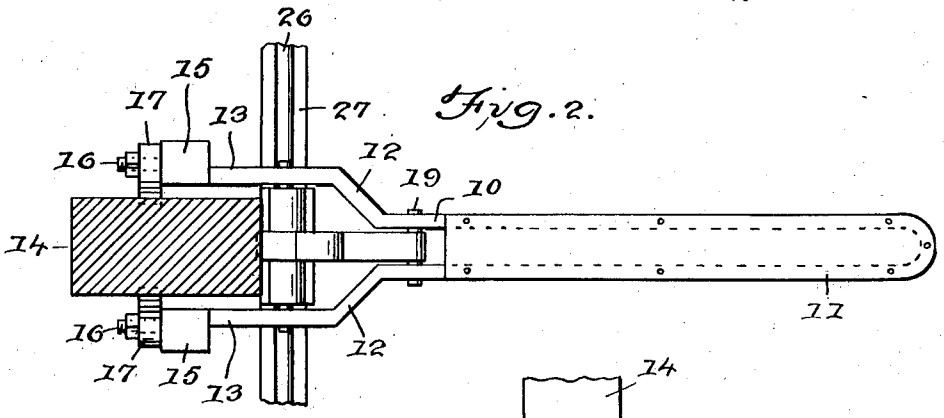


Fig. 4.

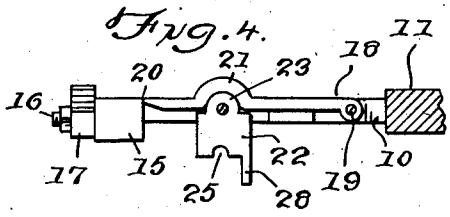
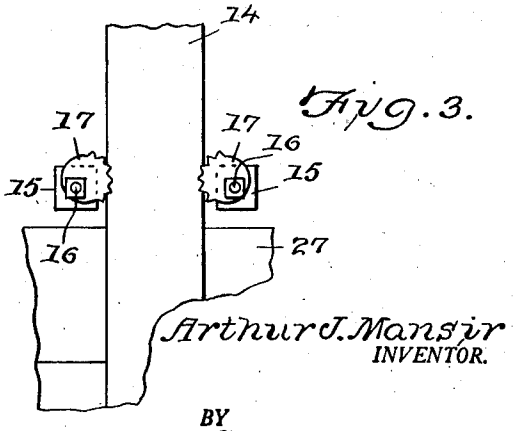


Fig. 3.



Arthur J. Mansir
INVENTOR.

BY
Victor J. Evans & Co.
ATTORNEYS

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LUMBER PULLER

Arthur J. Mansir, Camden, Ark.

Application August 13, 1943, Serial No. 498,485

3 Claims. (Cl. 254—15)

This invention relates to a lumber puller and has for an object to provide a device of this character adapted to assemble tongue and groove boards and hold the same in position for nailing to a joist, the device being adapted to operate on warped boards of this character as well as unwarped boards so that speed in building is promoted.

A further object is to provide apparatus of this character which will be formed of a few strong, simple and durable parts, which will be inexpensive to manufacture, and which will not easily get out of order.

With the above and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming a part of this specification:

Figure 1 is a side elevation of a lumber puller constructed in accordance with the invention, in applied position.

Figure 2 is a top plan view of the lumber puller shown in Figure 1.

Figure 3 is a front elevation of the lumber puller showing the serrated cams engaging the joist.

Figure 4 is a detail longitudinal sectional view showing the prop in released position.

Figure 5 is a side elevation of the board engaging block.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, the lumber puller comprises a handle 10 formed of strap metal bent in U form and provided with a casing 11. The handle is offset outwardly as shown at 12 beyond the casing to provide parallel arms 13 which are spaced apart sufficiently to straddle a joist 14. The forward ends of the arms are thickened as shown at 15 and are provided with openings for the reception of bolts 16 upon which serrated cams 17 are loosely mounted, see Figure 3.

A prop 18 is pivotally mounted at one end on a pivot bolt 19 which is engaged through the sides of the handle 10 near the casing 11. The prop is provided with a pointed free end 20 and between the free end and the pivoted end the prop is provided with an inverted U-shaped offset 21.

A substantially rectangular block 22 is provided on its top face with an eye 23 which receives a pivot bolt 24 the ends of which are engaged in openings in the parallel arms 13. The block is provided in its bottom face with a groove 25 adapted to fit over the tongue 26 of a board 27 having a groove in the edge opposite the tongue as is conventional, to receive the tongue of a contiguous board. The block 22 is provided with a downwardly extending stop lug 28 adapted to engage the front face of the board 27 when the groove 25 receives the tongue 26 thereof and thus hold a warped board in proper condition for assembling with a board already nailed in position.

In operation the arms 13 are placed astride of the joist 14 above the board 27 which is to be laid, and the pointed end of the prop 18 is engaged against the edge of the joist as shown in Figure 1. The cams 27 are engaged with the sides of the joist and the block 22 is disposed above the board to be laid, with its groove 25 receiving the tongue 26 of the board and the stop lug 28 disposed against the front face of the board near the top edge thereof. Thereupon the handle 11 is depressed to cause the cams to bear with great force against the joist while the block 26 is forced downwardly with great pressure upon the board to assemble it with the board already nailed. At this time the pointed end of the prop has engaged the edge of the joist so that the uppermost board, held firmly in place by the block 22 and its stop lug 28, may be nailed to the joist.

From the above description it is thought that the construction and operation of the invention will be fully understood without further explanation.

What is claimed is:

1. A lumber puller comprising a U-shaped frame including an elongated handle and a pair of spaced arms at one end of the handle, a bolt extending forwardly from the end of each arm, a serrated cam loose on each bolt, said arms being adapted to straddle a joist to which a tongue and groove board is to be nailed, a block pivoted between the arms having a groove in its lower surface to engage the tongue of a board, said block having a depending stop lug adapted to engage the front face of the board, a prop pivoted at one end between the arms adapted to engage the joist at the free end, said prop being adaptd to be disposed in the plane of the arms in contact with the block in released position, and a casing housing the handle from the

closed end thereof to near the pivoted end of the prop.

2. A lumber puller comprising a pair of spaced arms increased in thickness at the forward ends, bolts extending forwardly from said ends, serrated cams loose on the bolts, a handle connected to the arms, said arms being adapted to straddle a joist to which a tongue and groove board is to be nailed, a block pivoted between the arms having a groove in its lower surface to engage the tongue of a board, said block having a depending stop lug adapted to engage the front face of a board and provided on the top face with a projection, and a prop pivoted at one end between the arms adapted to engage the joist at the free end, said prop having an offset in which the projection of the block is adapted to nest and being disposed in the plane of the arms in contact with the block in released position.

3. In a device of the character described, a rigid body shaped to form an elongated U-shaped handle, the forward ends of the handle being formed to provide a pair of longitudinally extending laterally offset arms disposed to straddle a support member, a serrated cam pivotally mounted at the end of each arm, a block pivotally mounted between the arms, and a prop having one end pivotally mounted between the inner end portions of the handle adjacent said arms.

ARTHUR J. MANSIR.