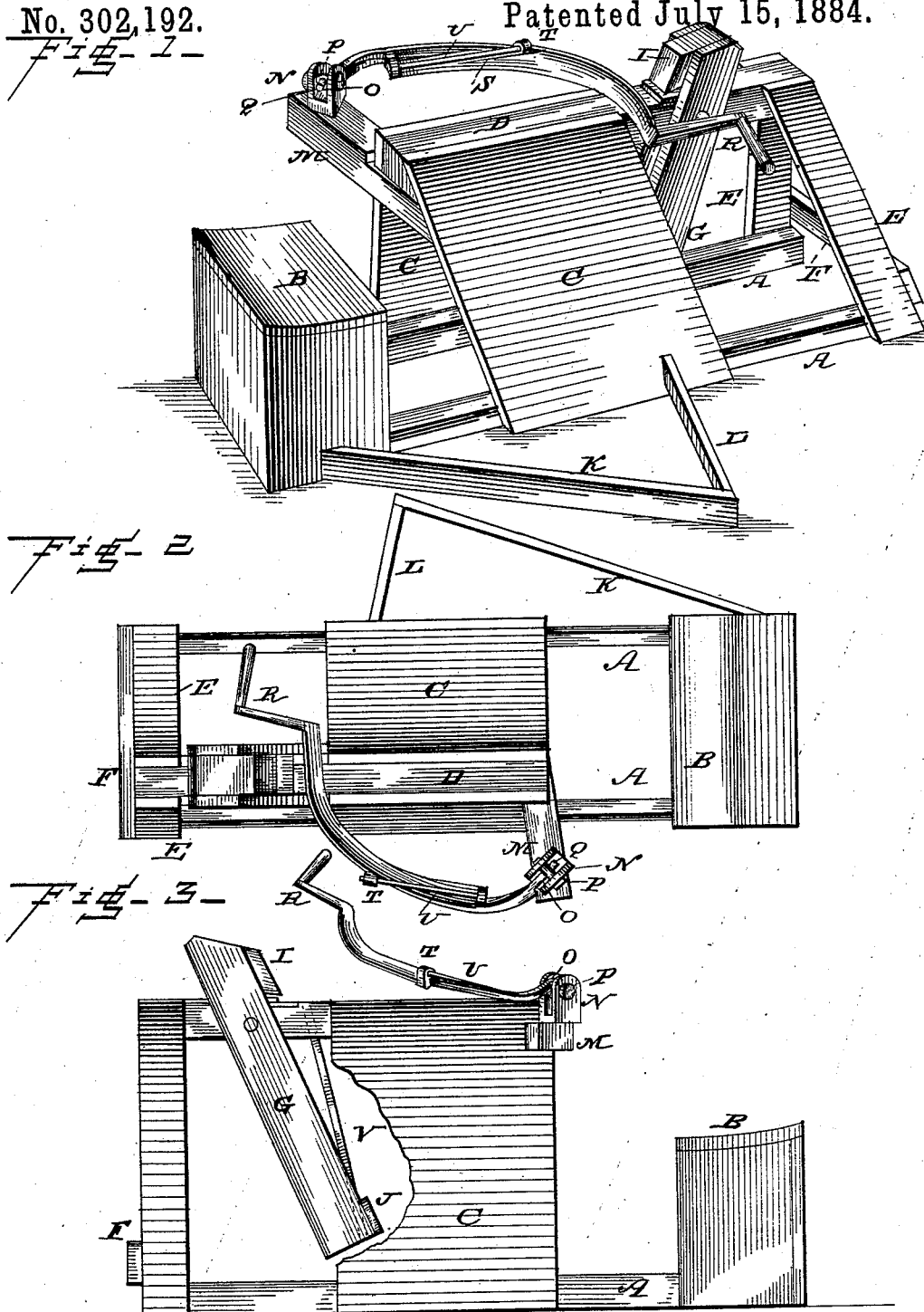


(No Model.)

J. R. M. CRAWFORD.
HAND SHINGLE MACHINE.

No. 302,192.

Patented July 15, 1884.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN R. M. CRAWFORD, OF BOONEVILLE, MISSISSIPPI.

HAND SHINGLE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 302,192, dated July 15, 1884.

Application filed June 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. M. CRAWFORD, a citizen of the United States, and a resident of Booneville, in the county of Prentiss and State of Mississippi, have invented certain new and useful Improvements in Hand Shingle-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved shingle-machine. Fig. 2 is a plan view of the same, and Fig. 3 is a side elevation.

The same letters refer to the same parts in all the figures.

This invention relates to machines for manufacturing shingles by hand-power; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, A A designate two longitudinal beams or sills, which form the base of the machine. At the rear ends of the said sills is mounted a suitable seat, B, for the operator.

C C are uprights connected about centrally to the sills, and inclined toward each other, their upper ends being connected by a beam, D, which forms the support for the shingle during operation. The block D extends in a forward direction, and has its front ends supported by the braces E E, the lower ends of which are connected to the sills and provided with a suitable transverse brace, F.

G is a treadle consisting of two side pieces, which are pivotally connected to the beam D at a point between the uprights C and E. The upper end of the said treadle is provided with a cross-head, I, which serves to clamp and hold the shingle securely while it is being operated upon. The lower ends of the side pieces forming the treadle are provided with a cross-piece, J, forming a foot-rest.

K is a brace secured to the right-hand side of the machine, and having its front end connected with the sill by means of a bar or brace, L, which forms a support for the right foot of the operator.

M is a bracket extending laterally from the front end of the supporting-beam D, and having at its outer end a swiveled block, N, the upper side of which has a slot, O, provided with a transverse shaft, P, which latter is transversely perforated to receive the swiveled or pivoted stud Q, which is formed at the end of the blade of the drawing-knife. The latter is a curved knife provided at its outer end with a suitable handle, R. The upper side of the blade of this knife is provided near its inner end with a groove, S, at the ends of which bearings T are formed for a roller, U.

V is a stop consisting of a rod extending downwardly from the under side of the supporting-beam, and serving to limit the motion of the treadle.

The operation of my invention is as follows: The shingle is clamped between the supporting-beam and the cross-head of the treadle, which latter is operated by the left foot of the operator, who is seated upon the bench B, while his right foot is pressed against the foot-rest L. The knife is then operated by the right hand, the length of the knife giving such a degree of leverage that the operation of cutting or drawing the shingles may be performed with far greater ease and accuracy than when the ordinary drawing-knife operated by both hands is used.

It is evident that the method herein described of swiveling or jointing the knife to the supporting-bracket enables it to be adjusted and manipulated in any desired manner. The roller on top of the knife serves to guide the shaving, thus greatly facilitating the operation, especially when the shaving is one of considerable thickness.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a shingle-machine, the combination, with a suitable supporting-frame having a seat for the operator, of a drawing-knife provided with a handle at one end, and having its other end pivoted in a shaft which is journaled transversely in a vertically-swiveled block, substantially as and for the purpose set forth.

2. In a shingle-machine, the combination, with a suitable supporting-frame having a laterally-extending bracket, of a drawing-knife

flexibly jointed or swiveled to the said bracket, and provided on its upper side with a suitably-arranged roller, substantially as and for the purpose set forth.

5 3. The combination, with a drawing-knife for manufacturing shingles, of a roller mounted or journaled in a groove in the upper side of the blade of such knife, substantially as and for the purpose set forth.

10 4. In a shingle-machine, the combination of a frame comprising a pair of longitudinal sills, a seat at the rear ends of the latter, suitable uprights supporting a beam at their upper ends, a treadle journaled to the said beam, and
15 having a clamping-block at its upper end and

a foot-rest at its lower end, a foot-rest attached to one side of the frame, and a drawing-knife provided with a roller on the upper side of its blade, the said knife being swiveled or flexibly jointed to a bracket extending laterally from the supporting-frame, substantially as and for the purpose set forth.

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

JOHN R. M. CRAWFORD.

Witnesses:

I. S. BOREN,

T. W. LEDBETTER, Jr.