

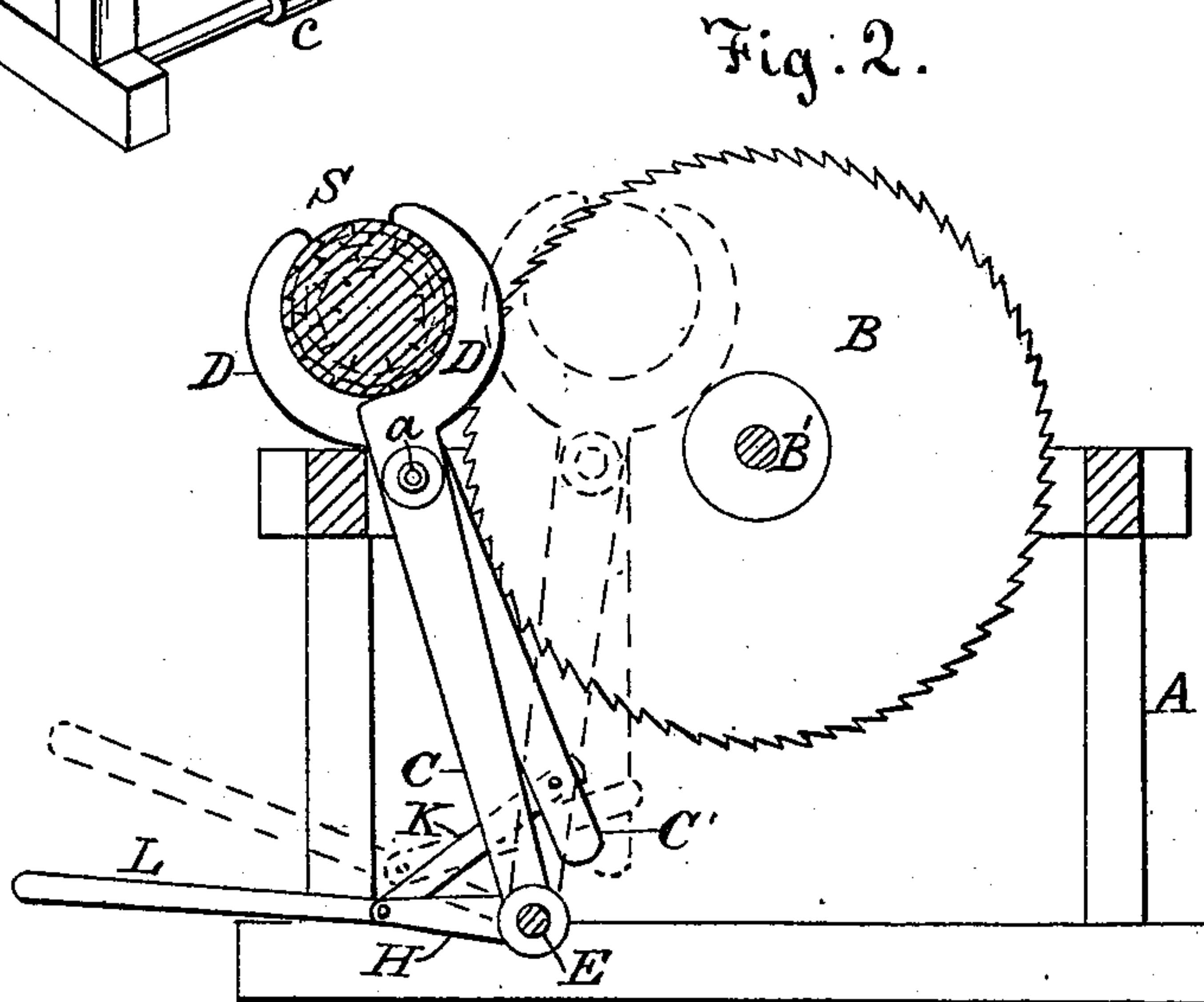
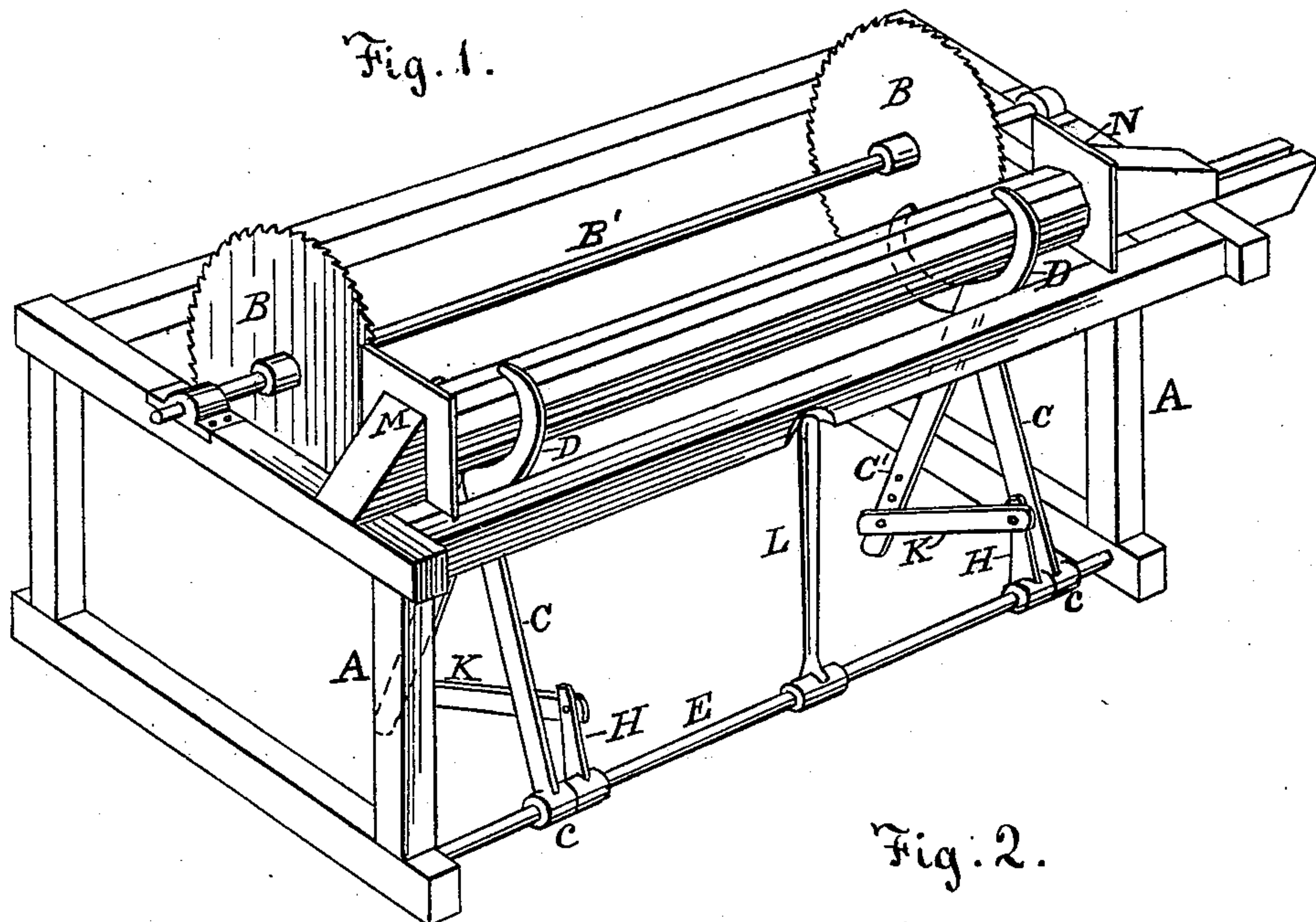
(No Model.)

G. W. NICHOLS & W. TAYLOR.

LATH TRIMMING MACHINE.

No. 262,611.

Patented Aug. 15, 1882.



Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE W. NICHOLS AND WILLIAM TAYLOR, OF CLINTON, IOWA.

LATH-TRIMMING MACHINE.

SPECIFICATION forming part of Letters Patent No. 262,611, dated August 15, 1882.

Application filed March 18, 1882. (No model.)

To all whom it may concern:

Be it known that we, GEORGE WASHINGTON NICHOLS and WM. TAYLOR, both of Clinton city, in the county of Clinton and State of Iowa, have invented certain new and useful Improvements in Lath-Trimming Machines; and we 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, and to letters of reference marked thereon, which form a part of this specification.

The object of our invention is the construction of a machine by which laths may be trimmed to a uniform length by a single operation; and the invention consists of a machine having clamping-arms constructed and adjusted to clamp and securely hold a bundle of laths while it is being fed to the saws, which are adjusted the required distance apart to trim both ends of the laths at the same time, as hereinafter fully described.

In the drawings, Figure 1 is a perspective view of the machine with a bundle of laths in the compress, ready to be clamped. Fig. 2 is a transverse vertical section, showing the compress-arms closed on a bundle of laths ready to be fed to the saws, and showing in dotted lines the position of the bundle and the clamp after the saws have trimmed the ends.

A represents the frame of the machine.

B B are the trimming-saws, adjusted four feet apart on a shaft, B', whose bearings are on the frame A.

D D represent the curved compress-arms of the clamping devices, arranged to clamp a bundle of laths near its ends. These compress-arms are pivoted at *a*, and extend downward, forming the operating-levers C C'. The lower ends of the levers C are provided with sockets *c*, and fit loosely on rock-shaft E.

H represents arms, rigidly attached to the rock-shaft E and connected by a loose joint with the arms K, which, by a similar joint, connect with the lower ends of the levers C'.

L is a lever rigidly attached to the rock-shaft E for operating the clamping devices.

M is a stationary head-block attached to the frame A, and N is a movable head-block adjusted to slide endwise on a guide on frame A.

The compress-arms are usually constructed

to receive a bundle of fifty laths; but it is evident they be made to receive a bundle of any required size, and they may be adjusted in size by adjusting the ends of the connecting-arms K upward or downward on the lower portion of the levers C'. The laths are cut from the cant a little over four feet long. The compress-arms being open and at the front of the machine, and a bundle of laths being placed within the arms, as shown in Fig. 1, the block N is moved against the ends of the laths, forcing the opposite ends against the block M, thus evening the laths in the bundle, when the compress-arms are closed upon the bundle by depressing the lever L, as shown in Fig. 2, and the block N is moved backward, freeing the bundle and allowing it to be fed to the saws, which trim evenly both ends at the same time. The compress is then moved forward, and the bundle, while still compressed in the clamping-arms, is tied, making thus a very compact bundle.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the saws B B, adjusted the length of a lath apart, of the compress arms D D, having the lever-arms C C', the connecting-arms H K, the rock-shaft E, and the lever L, substantially as and for the purposes described.

2. The combination, with the compress-arms D D, having the lever-arms C C', of the rock-shaft E, connecting-arms H K, and lever L, substantially as and for the purposes described.

3. In combination, the saws B B, adjusted the length of a lath apart, the compress-arms D D, having lever-arms C C', the connecting-arms H K, the rock-shaft E, the lever L, and the stationary and movable head-blocks M N, substantially as and for the purposes described.

In testimony that we claim the foregoing as our own invention we affix our signatures in presence of two witnesses.

GEORGE WASHINGTON NICHOLS.
WILLIAM TAYLOR.

Witnesses as to signature of G. W. Nichols:

H. F. YOUNG,
F. D. KINGSBURY.

Witnesses as to signature of W. Taylor:

W. W. SANBORN,
H. F. BOWERS.