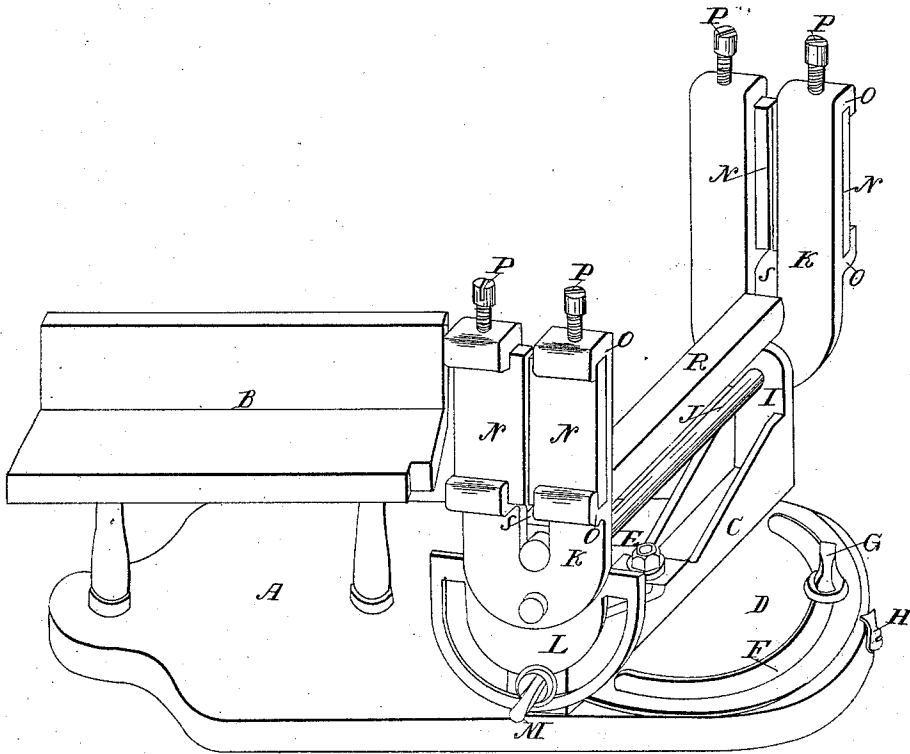


W.H. Herbert,
Miter Box,
No 81,782, Patented Sept. 1, 1868.



Witnesses:
H. J. Eberle.
Louis C. Hyde.

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WILLIAM H. HERBERT, OF BLISSFIELD, MICHIGAN.

Letters Patent No. 81,782, dated September 1, 1868.

IMPROVEMENT IN MITRE-BOXES.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that I, WILLIAM H. HERBERT, of Blissfield, in the county of Lenawee, and State of Michigan, have invented a new and useful Improvement in Mitre-Boxes for cutting mitres and bevels at the same time; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

The nature of this invention is so to construct an adjustable mitre-box that it can readily be adapted to any desired angle, and so arranged that two different mitres, or a bevel and mitre, can be cut at the same time.

In the drawings hereto attached, A represents the top of a bench, surmounted by a saw-bench or guide, B. C is a frame, attached to graduated quadrant D, and pivoted, at E, to the bench A. F is a slot in said quadrant, within which, screwing into the bench A, is the set-screw G, for the purpose of holding the quadrant in any desired position, and H is a stationary index, directly in line with the pivot at E, and the centre of the guide B.

The frame C is provided with ears, I, at each end, through which passes the rod J, to which are rigidly attached the guards K, and the quadrant L, which is also slotted, and held in desired position by set-screw M passing through the slot into the end of the frame C. N are saw-guides, held in position by means of the flanges, O, on the guards K, and are rendered adjustable to the saw by means of the set-screws P, said guards and quadrant, and their attachments, all oscillating with the rod J. R is an oscillating wooden bar, flat upon its upper side, and circular in form upon its under side, held in position by proper journals, which operate in proper grooves, S, in the guards K, and is designed to always have its upper face horizontal and parallel with the top of the saw-bench B, for the end of the piece of wood or other material being operated upon to rest upon, and to present a surface of wood to the action of the saw, after it has done its work, and prevent it from becoming dulled by coming into contact with the metal parts of the apparatus. The operation of the whole is so simple and readily seen that it needs no explanation.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The oscillating bar R, when constructed and operating substantially as and for the purposes herein set forth.

2. An adjustable mitre-box, consisting of the two quadrants D and L, frame C, set-screws G, M, and P, the rod J, guards K, saw-guides N, and oscillating bar R, when arranged and operating substantially as herein described.

WM. H. HERBERT.

Witnesses:

H. F. EBERTS,
LOUIS C. HYDE.