

S. D. McLelland,
Edge-Tool Grinder.
N^o 43,518. Patented July 12, 1864.

Fig. 1.

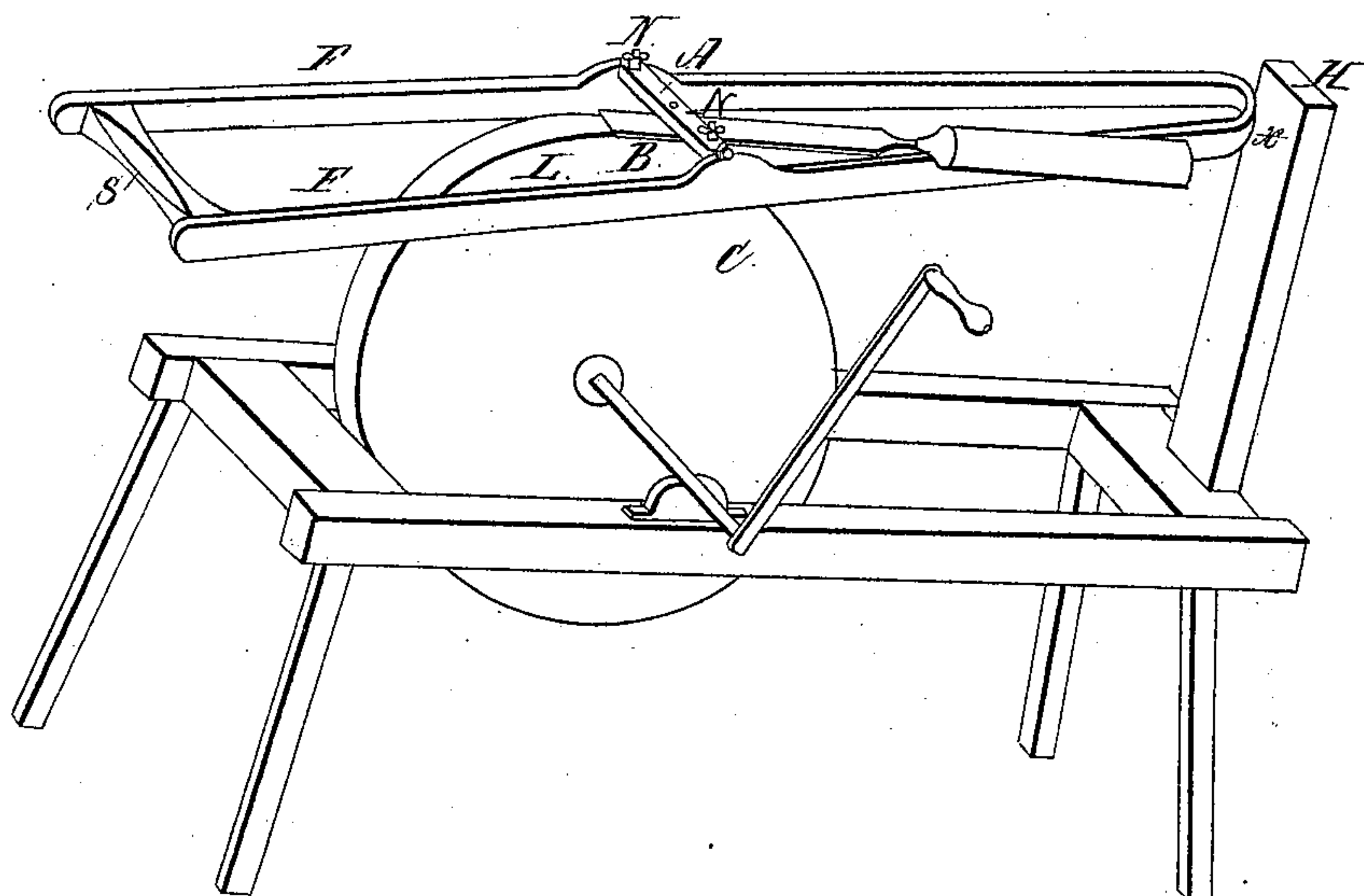


Fig. 2.

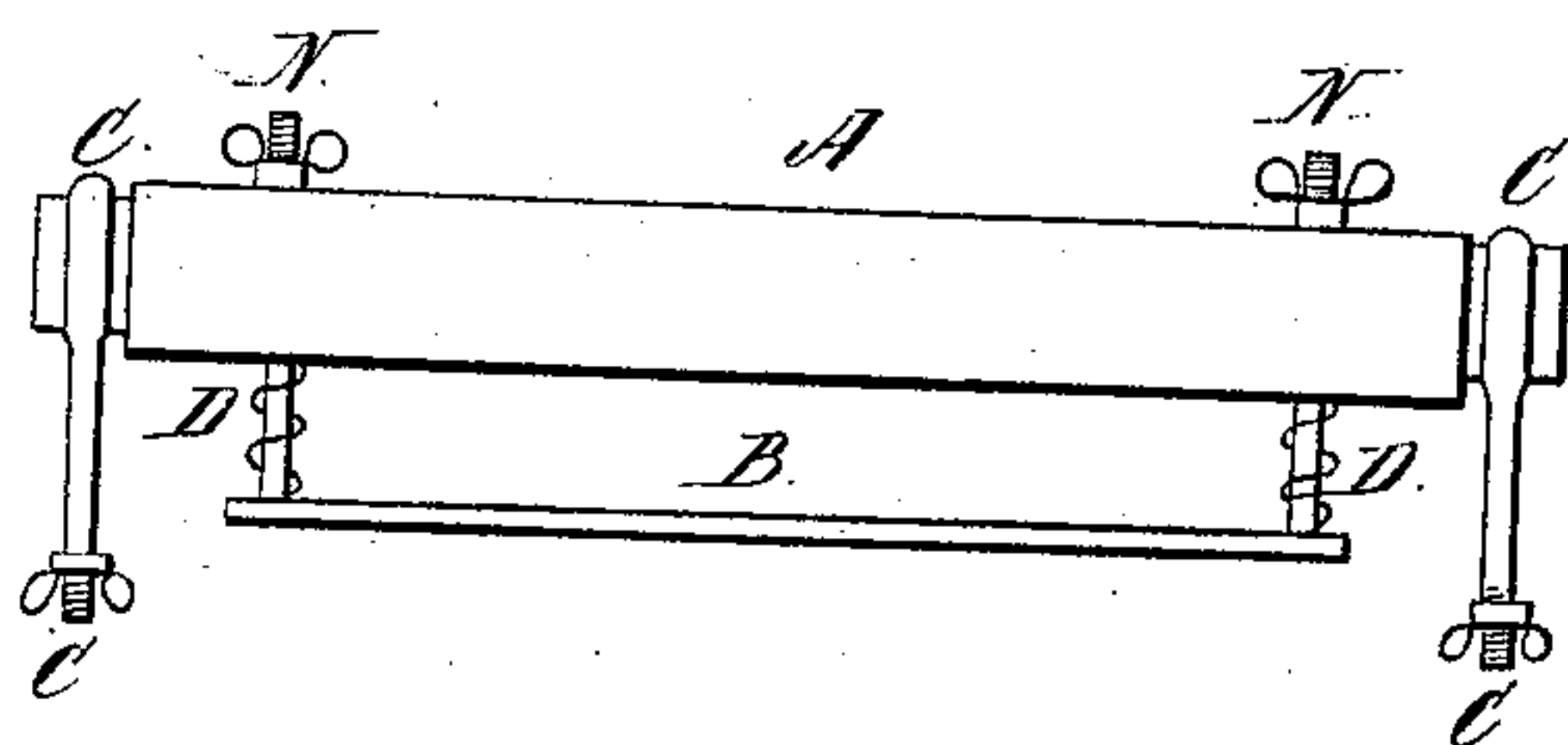
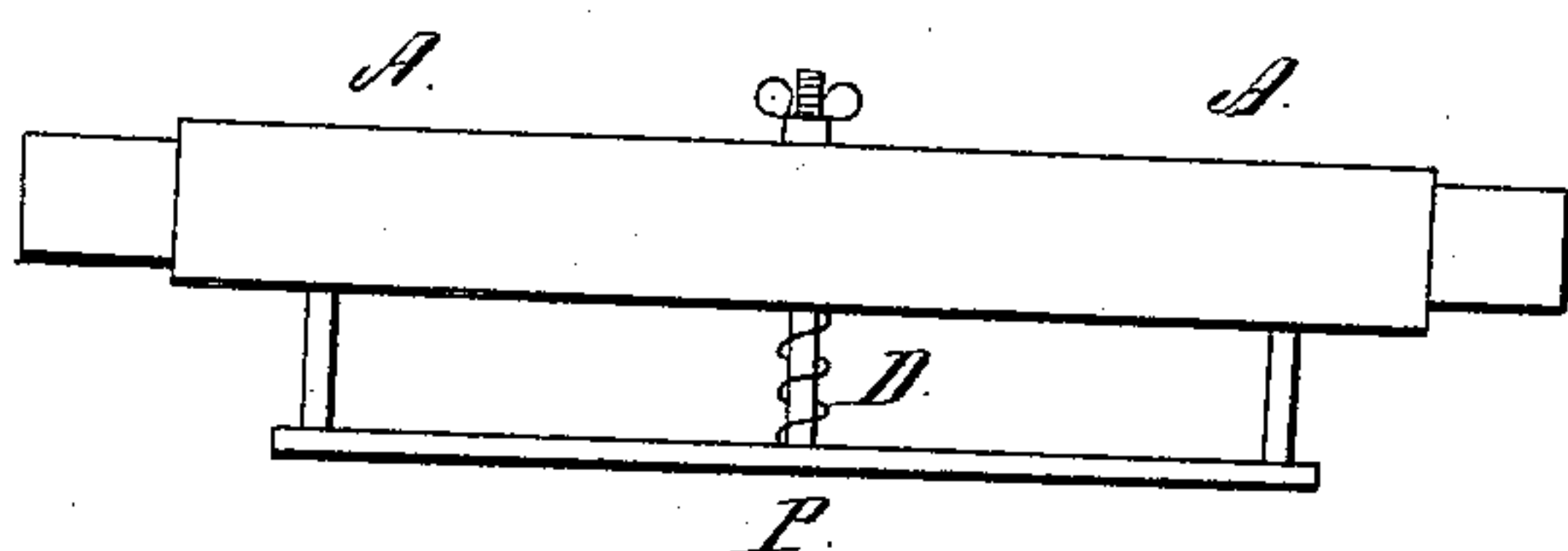


Fig. 3.



Witnesses:
Cyrus Bates
R T Burnham

Inventor:
S D McLelland

UNITED STATES PATENT OFFICE.

S. D. McLELLAND, OF MCGREGOR, IOWA.

IMPROVEMENT IN GRINDING EDGE-TOOLS.

Specification forming part of Letters Patent No. 43,518, dated July 12, 1864.

To all whom it may concern:

Be it known that I, S. D. McLELLAND, of McGregor, in the county of Clayton, in the State of Iowa, have invented a new and Improved Mode of Grinding Edge-Tools; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists, first, in the use of a forked lever with a pivot-fulcrum at the apex, by which the lever may be firmly held against a standard attached to the frame of the stone or otherwise at any required point of the same, the lever also having a handle which ties the prongs of the same at the end opposite the apex.

My invention consists, second, in the use of an adjustable cross-bar fastened to the lever with clamp-screws.

My invention consists, third, in the use of a clamp which fastens the tool to the cross-bar.

My invention consists, fourth, in the use of springs which open the clamp when the screws are loosened.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In Figure 1 of the accompanying drawings, F F represent the forked lever, with its point

x, attached to the standard H. S represents the cross tie and handle of the lever. A represents an adjustable cross-bar with its clamp-screws, and R represents a tool held in the cross-bar in a position for grinding.

In Fig. 2, B represents the clamp which fastens the tool to the cross-bar A, and N N the screws which hold the clamp B, and C C the clamp-screws which hold the adjustable bar to the forked lever. D D represent the springs which open the clamp when the tool is to be put in place or removed.

In Fig. 3, A A represent the same cross-bar with an additional clamp, P, to be used instead of clamp B. (Shown in Fig. 2.)

By the use of my invention the tool can be ground with ease and certainty in any desired shape, the lever to be used either side uppermost.

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

1. The employment or use of the forked lever with its point-fulcrum, in combination with the cross-bar and clamp, for the purpose set forth, as described.

2. The adjustable cross-bar with its clamps, for the purpose set forth, as described.

S. D. McLELLAND.

Witnesses:

CYRUS BATES,

R. T. BURNHAM.