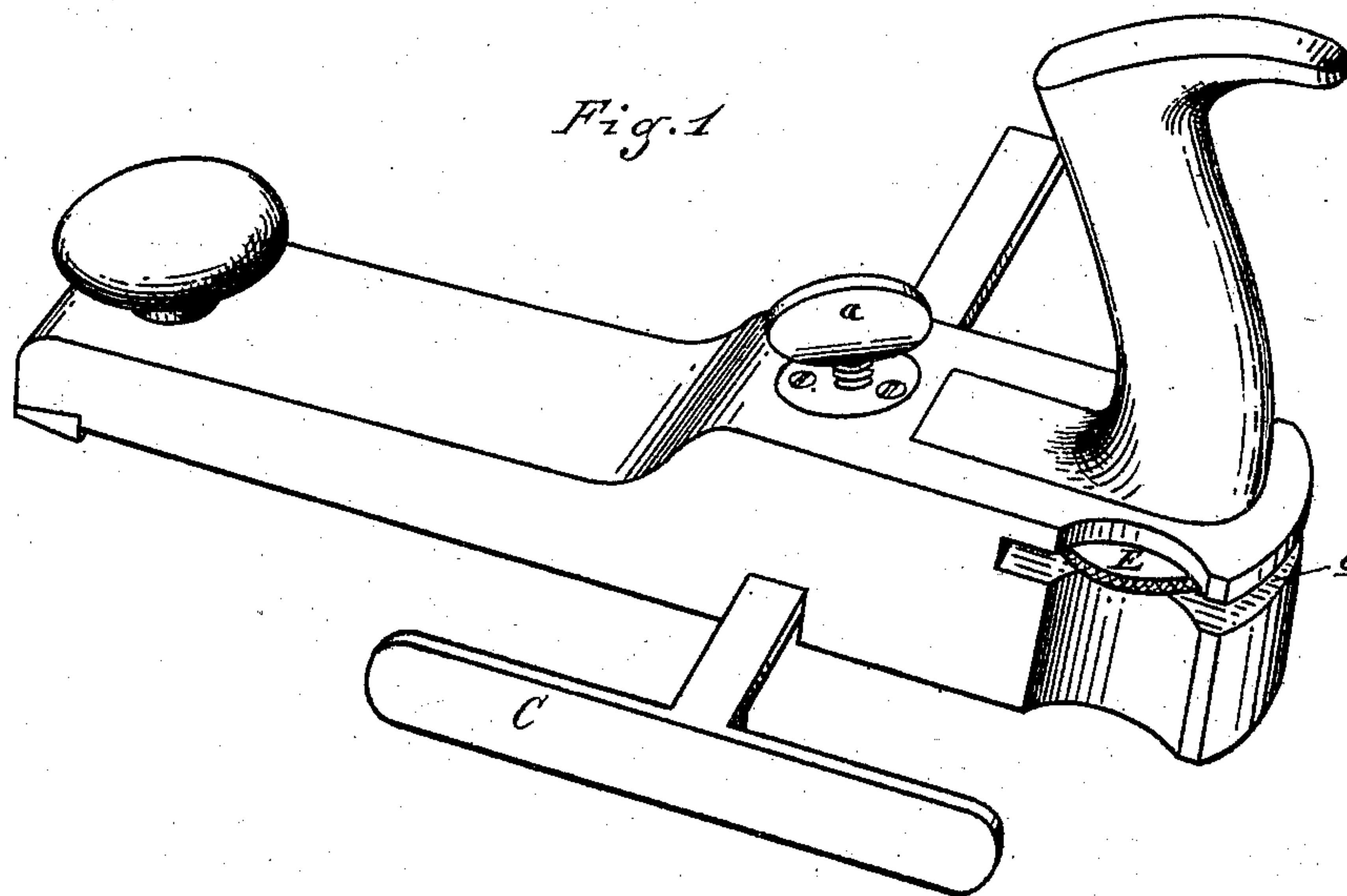
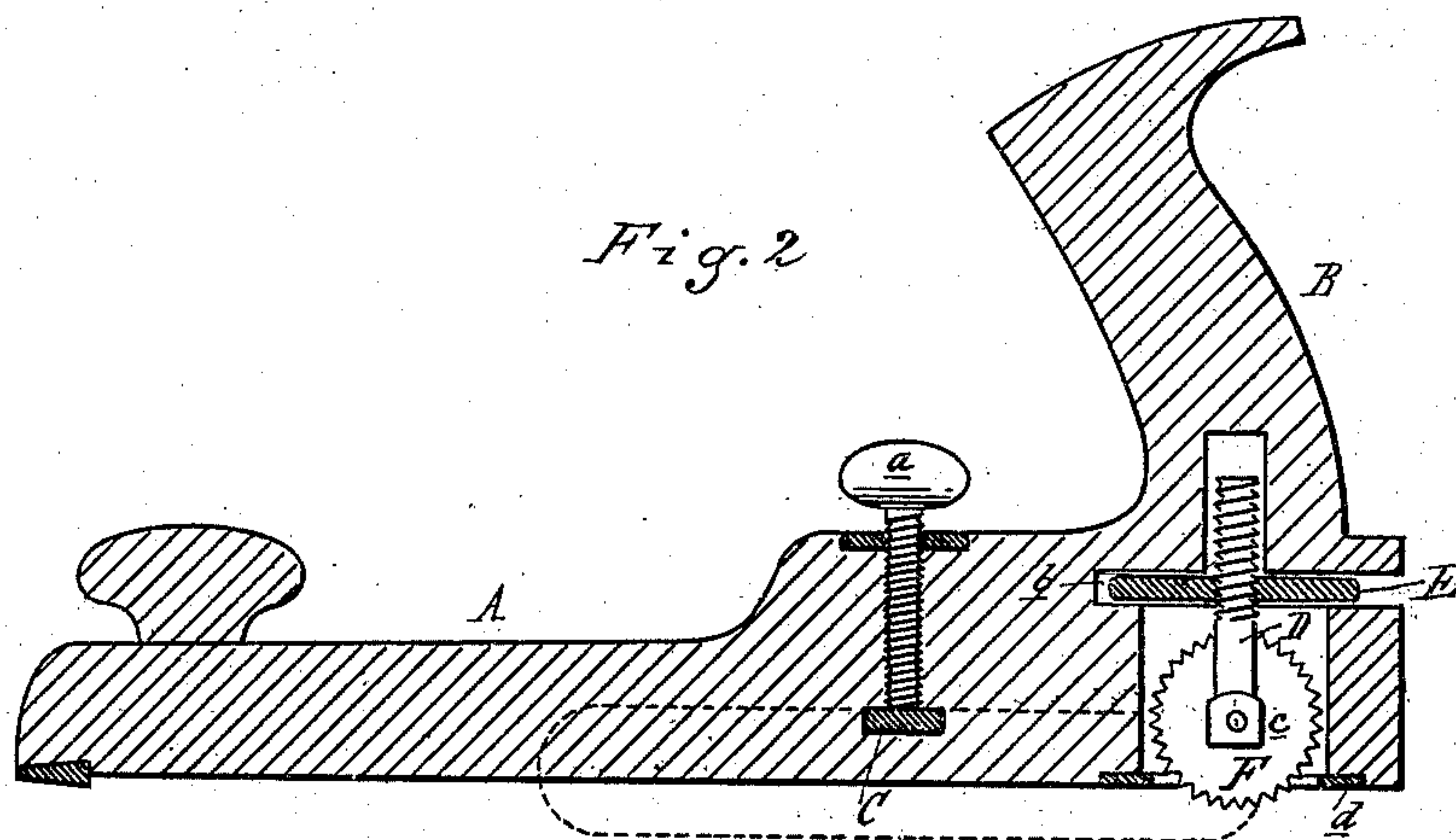


(No Model.)

C. KINNEY.
Marking and Slitting Gage.

No. 229,258.

Patented June 29, 1880.



Attest:
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UNITED STATES PATENT OFFICE.

CYRUS KINNEY, OF WINDSOR, ONTARIO, CANADA.

MARKING AND SLITTING GAGE.

SPECIFICATION forming part of Letters Patent No. 229,258, dated June 29, 1880.

Application filed April 15, 1880. (No model.)

To all whom it may concern:

Be it known that I, CYRUS KINNEY, of Windsor, Essex county, Province of Ontario, Canada, have invented an Improvement in Marking and Slitting Gages, of which the following is a specification.

The nature of this invention relates to certain new and useful improvements in the construction of a tool particularly designed for the use of carpenters and workers in wood, for the double use of a marking-gage and ripping-tool; and the invention consists in the peculiar construction and arrangement of the various parts, all as more fully hereinafter set forth.

Figure 1 is a perspective view. Fig. 2 is a vertical longitudinal section.

In the accompanying drawings, which form a part of this specification, A represents a suitable stock, provided with a handle, B, and through the stock is mortised the gage C, which is retained in its adjusted position by means of a thumb-screw, *a*, as shown.

D represents a threaded bolt recessed through the heel of the stock, extending up into the handle and passing through a milled thumb-nut, E, which rotates in the slot *b* in the heel of the stock. The lower end of the bolt D is provided with a head, *c*, said head being slotted to receive the wheel F, which is properly journaled therein. The wheel F is provided with sharp saw-teeth adapted to pierce, cut, and sever the fibers of wood as it revolves upon it in the reciprocating movements of the stock A.

A slotted plate, *d*, is let into the face of the stock and near the heel thereof, said slot being coincident with the edge of the toothed wheel, the face of the plate being flush with the face of the stock.

When it is desired to use the device as a marker only the gage is set as desired and the milled nut is turned so as to cause the saw-teeth of the wheel F to slightly protrude beyond the face of the stock. The tool then being placed to the work, it is pushed across the same, as is a plane, which causes the saw-toothed wheel to revolve and make slight indentations in a line perfectly parallel with the gage.

When it is desired to use the device for ripping purposes the saw-toothed wheel is still farther protruded at each travel across the work, which effectually severs the fibers of the wood, the operation being repeated until the board being operated upon is entirely cut through. Should the board be of such thickness as to require it, it may be turned over, making the cut from each side, the gage assuring that such cuts shall be coincident with each other.

In practice it will be found that a board can be severed lengthwise or with the grain much quicker and with less labor than the same could be effected by the use of the ordinary rip-saw. In fact, ordinarily, a board can be severed with this device in about the time that it takes to lay out the work preparatory to the use of a saw, and it will also be found that this device will line the work exactly parallel to the gage-plate, as the saw-toothed wheel practically steps over the grain of the wood, and cannot therefore be misguided by it.

I am aware that a burnishing-iron for boots and shoes provided at each end with a marking-wheel and gage has heretofore been employed, and I therefore lay no claim to such construction, in which the marking-wheel is not provided on its circumference with saw-teeth capable of piercing, cutting, and severing the fibers of wood, as in my invention.

What I claim as my invention is—

1. A combined marking and ripping tool, substantially as described, and in combination with a stock, A, thereof, a toothed marking-wheel adapted to be protruded beyond or retracted within the face of said stock, substantially as described.

2. In a combined marking and ripping tool, substantially as described, and in combination with the stock A thereof, the gage C and toothed wheel E, capable of adjustment in relation to said stock substantially as specified.

CYRUS KINNEY.

Witnesses:

H. S. SPRAGUE,
CHARLES J. HUNT.