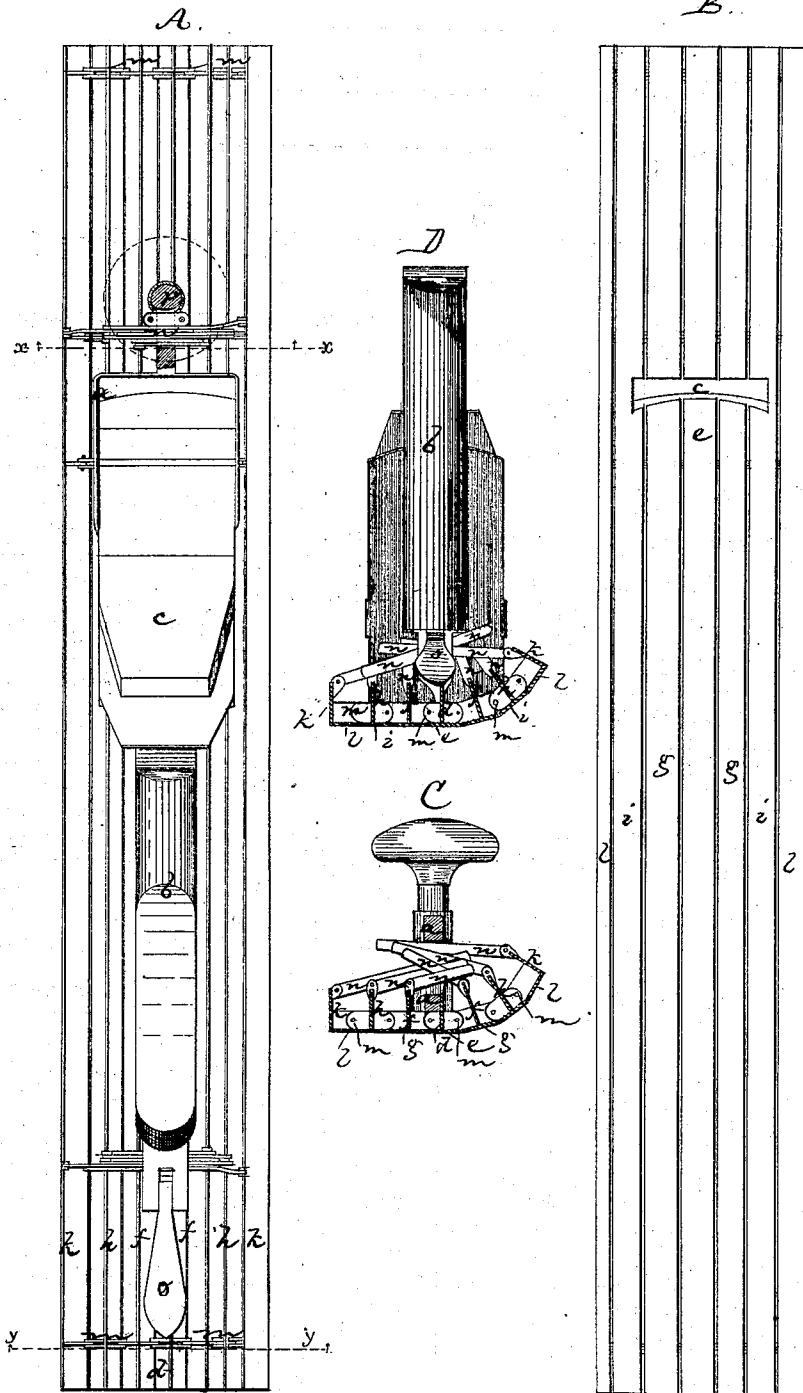


SAMUEL M. ADAMS.
Improvement in Plane-Stocks.

No. 127,541.

Patented June 4, 1872.



Witnesses,
M. W. Frothingham,
S. B. Kiddet

Inventor,
Samuel M. Adams,
By his Atty.,
Crosby & Gould

UNITED STATES PATENT OFFICE.

SAMUEL M. ADAMS, OF FITCHBURG, MASSACHUSETTS.

IMPROVEMENT IN PLANE-STOCKS.

Specification forming part of Letters Patent No. 127,541, dated June 4, 1872.

To all whom it may concern:

Be it known that I, SAMUEL M. ADAMS, of Fitchburg, in the county of Worcester and State of Massachusetts, have invented an Improved Plane-Stock; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

In making patterns for castings it is often necessary to plane long straight faces, which are curved in cross-section, and as such faces differ so that in different patterns there are hardly two faces alike—for which reason there has to be, in every complete set of pattern-maker's tools, a great variety of planes with curved-faced stocks and curved-edged bits.

My object has been to produce a plane in which the face of the stock could be adjustably curved, so that, with the same or with different bits, and with the same stock, faces to be planed may be brought to various curves, as desired, by fitting the plane thereto.

My invention consists in a plane-stock formed of sections, each of which has a plain straight face in the direction of the length of the plane, said sections being so connected that they may be relatively adjusted so as to present faces more or less curved in cross-section, the faces of the stock being brought to the form desired preferably by means of a pattern or gauge, and being then fastened; while for a bit or cutting-iron there may be selected a bit with a proper-shaped edge; or for slight modifications one bit can be used. My invention consists in a plane or plane-stock the face of which is made up of plates or sections hinged together, and made relatively and independently adjustable, and having provision for fastening them in any position to which they may be brought by adjustment.

The drawing represents a plane-stock embodying my invention.

A shows a plan of it; B, a reverse plan or bottom view. C is a cross-section on the line *x x*. D is a cross-section on the line *y y*.

a denotes the frame of the stock; *b*, the handle; *c*, the bit or iron; all made in the usual manner. To the frame *a* is fixed a center permanent or relatively immovable rib, *d*, having a face, *e*, and to the opposite sides of said rib *d* are jointed two other ribs, *f*, having cutting-faces *g*, and to the ribs *f* two ribs, *h*, with cutting-faces *i*, and to the ribs *h* ribs *k* with cutting-faces *l*, there being as many of these ribs and faces as may be desirable.

When the faces are in line they constitute the flat face of an ordinary plane, and from this line or plane they are moved, as occasion may require a curved face to be planed. For this purpose the plates are jointed together by suitable ears and pins, as seen at *m*, and from each a jointed arm, *n*, extends, the several arms at either end of the plane passing through a sleeve or opening, in which, by means of a cam-lever, *o*, or an eccentric, *p*, they may be clamped together.

By means of a plane thus made a great variety of straight work curved in section may be planed with one tool, which work, without such a tool, would require as many planes as there were variations in surfaces to be planed.

The specific construction shown may, of course, be varied, both as relates to the connection of the sections and as to the means for clamping them in position.

I claim—

A plane-stock made up of sections connected together, substantially as shown and described.

Witnesses: SAMUEL M. ADAMS.
FRANCIS GOULD,
M. W. FROTHINGHAM,