R. E. POINDEXTER.

Saw-Jointer and Gage.

No. 164,762. Patented June 22, 1875.

Fig 1.

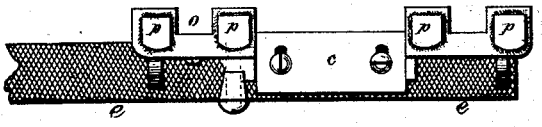


Fig 2.

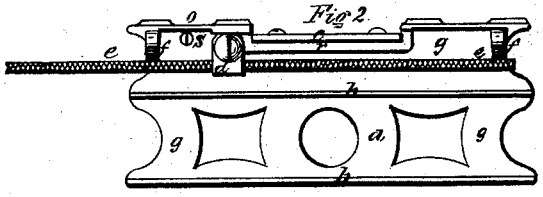
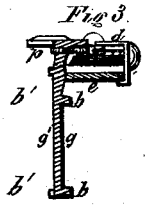


Fig 3.



WITNESSES.

J. W. Garner.

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UNITED STATES PATENT OFFICE.

ROBERT E. POINDEXTER, OF ANDERSON, INDIANA.

IMPROVEMENT IN SAW JOINTERS AND GAGES.

Specification forming part of Letters Patent No. **164,762**, dated June 22, 1875; application filed December 11, 1874.

To all whom it may concern:

Be it known that I, ROBERT E. POINDEXTER, of Anderson, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Saw Jointers and Gages; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in saw jointers and gages, and is intended as an improvement upon my Patent No. 150,431, dated May 5, 1874; and consists in casting the frame in a single piece of metal, forming flanges upon each side, and providing it with an adjustable gage-plate, set-screw, and a clamping device for the file, all of which will be more fully described hereafter.

The accompanying drawing represents my invention.

a represents an iron plate of suitable length and width, having upon its surfaces, on each side, two flanges, *b* and *b'*, of equal height, extending lengthwise of the plate. At right angles to the surface *g* of the plate *a*, and secured to a projection, *r*, at its edge, is a laterally-adjustable gage-plate, *c*. This plate is made adjustable, so that when the gage is placed against the side of the saw the plate can be moved so as to face up against it, in order to prevent the tooth from springing while being filed. It may also be used to regulate the set of the teeth, instead of the set-screw. Parallel with the flanges *b*, and firmly held by the clasp *d*, is the file *e*, which is braced against two projections, *f*, on the side of the plate and on the surface *g*. On the edge of the surface *g'* of the plate *a* are projections *p*, arranged in such a manner that, when the flanges *b'* upon the surface *g'* rest against the side of the saw-blade, these projections rest upon the cutting-teeth, leaving the chisel-teeth exposed at the adjustable gage-plate *c*. Between the projections *p* in the opening *o* penetrates the end of the screw S, which, being adjustable, serves as a gage for the set of any kind of a saw.

When used for regulating the length of the teeth the surface *g* of the plate *a* is applied to the side of the saw-blade, and the gage moved back and forward, the file being in contact with the points of the teeth. The flanges *b* upon the surface *g* of the plate *a* guide the gage, and keep the set of the teeth from being touched or injured by the plate. Having filed the teeth of equal length, the gage is turned over for the purpose of shortening the chisel-teeth, and the side *g'* of the plate *a* is brought to bear against the side of the saw-blade. The chisel-teeth, being left exposed when the cutting-teeth are placed under the projections *p*, may now be filed down to a level with the gage-plate *c*. Having adjusted the length of both the cutting and chisel teeth, and the proper set being ascertained by the gage-screw *s*, the sharpening of the saw may be proceeded with in the usual manner.

The improvement in my present invention upon my former patent consists in dispensing with the wooden block and introducing a more substantial holding device for the file; also, in adding a set-gage. The arms are also removed, and flanges, which guide the gage, substituted, and the instrument, by these alterations, made more durable and cheaper.

Having thus described my invention, I claim—

1. A saw jointer and gage provided with a laterally-adjustable plate, *c*, whereby the tooth is prevented from springing while being filed, substantially as set forth.

2. The metal frame *a*, having the flanged surfaces *g* and *g'*, projections *f*, clamp *d*, adjustable plate *c*, and set-gage *s*, substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of December, 1874.

ROBERT E. POINDEXTER.

Witnesses:

GEORGE W. KLINE,

A. C. DAVIS.