No. 691,399. Patented Jan. 21, 1902.

J. W. MANERING.

SAW GUIDE.

(Application filed May 25, 1901.)

(No Model.)

Fig. 1.

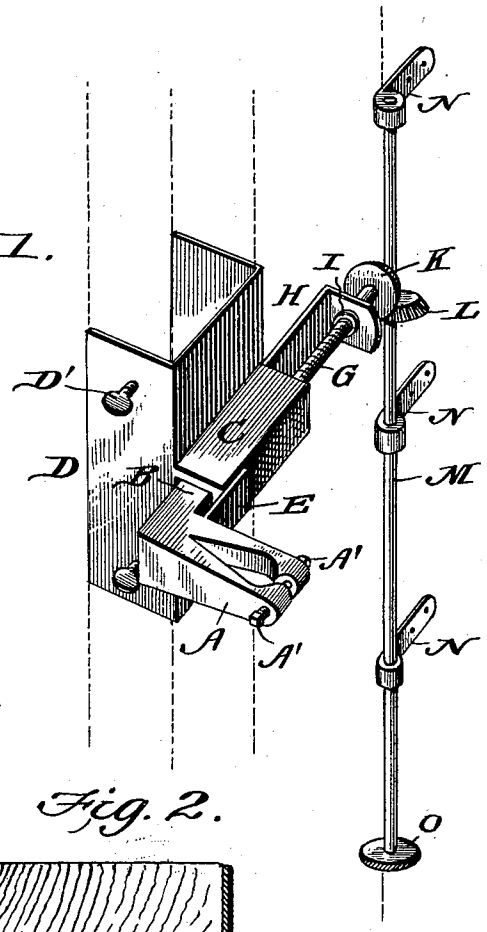
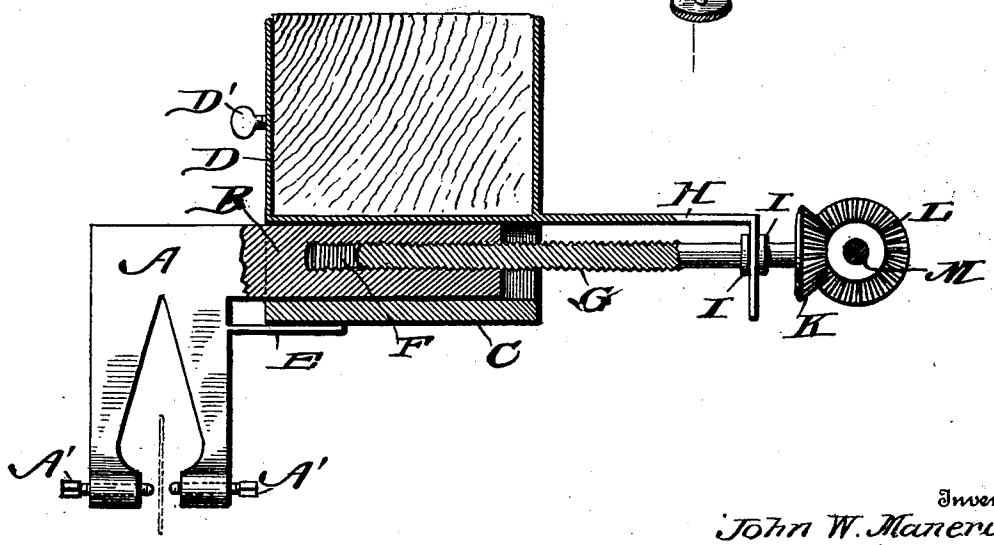


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 691,399, dated January 21, 1902.

Application filed May 25, 1901. Serial No. 61,934. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. MANERING, a citizen of the United States, residing at Bowling Green, in the county of Clay and State of Indiana, have invented a new and useful Saw-Guide, of which the following is a specification.

This invention is an improved construction of saw-guide, the object being to provide a simple device which can be applied to any of the saw-frames now in use and which can be quickly and easily adjusted without stopping a saw for the purpose of such adjustment.

With this object in view the invention consists, essentially, of a guiding-head adjustable laterally by means of a screw, said screw being operated by means of a shaft and bevel-gears; and the invention consists also in certain details of construction and novelties of combination, all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view of a saw-guide constructed in accordance with my invention. Fig. 2 is a sectional plan view.

In carrying out my invention I employ the guide-head A, having the adjustable guide-pins A', working through the ends. The guide-head A has a laterally-projecting arm B integral therewith, preferably secured in cross-section, said arm working in a boxing or housing C, attached to a clamp-plate D, adapted to be secured to the saw-frame by means of set-screws D'. A guide-plate E is also connected to the head A and extends parallel to the arm B and is adapted to play upon the outer side of the boxing or housing C, and therefore guide the arm in its movement back and forth in said boxing or housing. The arm has a threaded bore F, into which works the screw-shaft G, said shaft being journaled in the bracket-arm H extending from the clamp-plate D, collars I being fastened upon the shaft G upon opposite sides of the bracket-arm to prevent longitudinal movement of the shaft G. The shaft is rotated by means of a bevel-gear K, which meshes with a similar gear L, arranged at a right angle to the gear K and mounted upon the shaft M, said shaft being journaled in bearings N and provided with a hand-wheel O at its lower end. By turning the wheel O in either direction the operating-shaft M is rotated, turning the bevel-gears L and K, and the screw-shaft being turned causes the arm B to be moved in the boxing or housing, and consequently regulate the head of the guide. It will thus be seen that the head of the guide can be quickly and easily adjusted laterally without stopping the saw.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A saw-guide comprising a head having a laterally-projecting arm working in a suitable boxing or housing, means for moving the said arm within the said boxing or housing, and a guide-plate attached to the head, parallel with the arm and bearing upon the exterior of the boxing or housing, substantially as described.

2. A saw-guide comprising a head having the guide-pins a laterally-projecting arm integral with the head, a housing or boxing within which the arm works, said arm having a threaded bore, screw-shaft working in said bore and having a bevel-gear at its end, and the operating-shaft having a bevel-gear adapted to mesh with the gear upon the screw-shaft, substantially as described.

3. A saw-guide comprising a head provided with guide-pins, said head having a laterally-projecting arm, and a parallel guide-plate, a clamp-plate having a boxing or housing in which the arm works, and upon which the guide-plate bears, said arm having a threaded bore, a screw-shaft journaled in the bracket-arm attached to the clamp-plate, said screw-shaft working in the threaded bore of the arm, a bevel-gear mounted upon the end of the screw-shaft, and the operating-shaft having a bevel-gear adapted to mesh with the gear upon the screw-shaft, substantially as described.

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Witnesses:
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