(No Model.)

G. A. HINDES.

GAGE.

No. 456,331. Patented July 21, 1891.

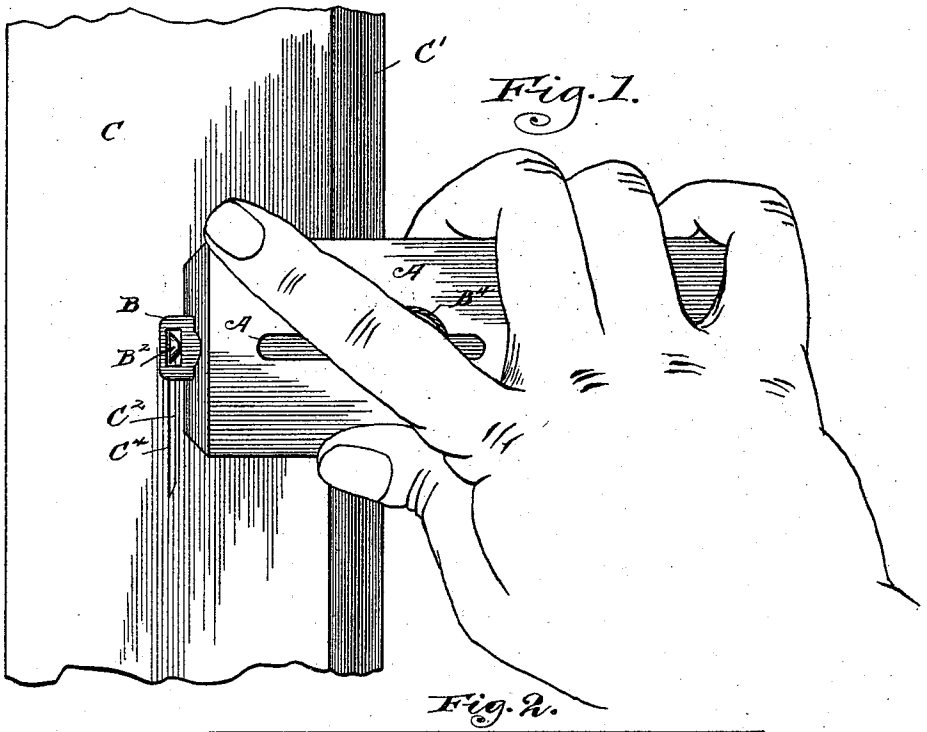

Fig. 1.

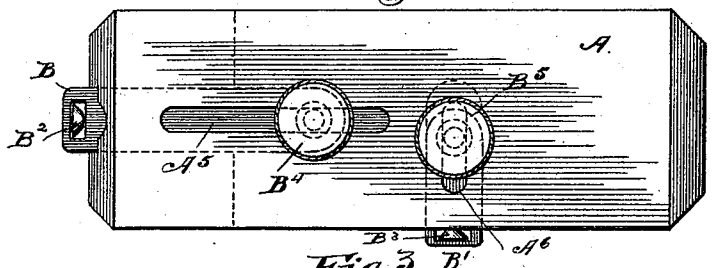

Fig. 2.

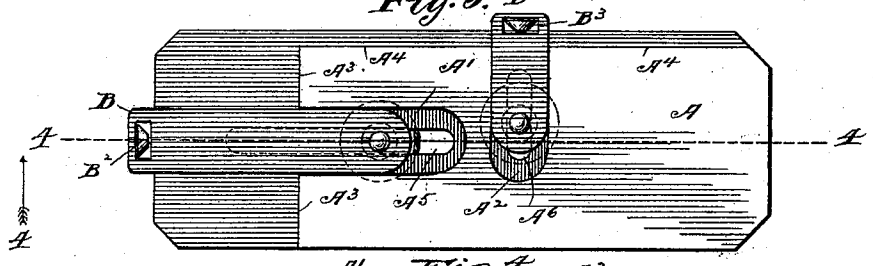

Fig. 3.

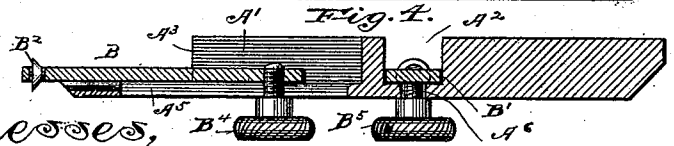

Fig. 4.

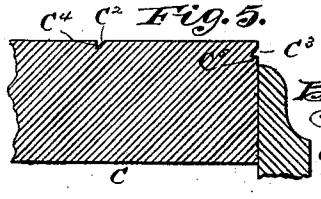

Fig. 5.

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UNITED STATES PATENT OFFICE.

GEORGE A. HINDES, OF ROCKFORD, ILLINOIS.

GAGE.

SPECIFICATION forming part of Letters Patent No. 456,331, dated July 21, 1891.

Application filed February 9, 1891. Serial No. 380,837. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. HINDES, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Gages, of which the following is a specification.

My invention relates, specifically, to that class of gages used in gaging door-jambs, doors, and the like preparatory to putting hinges thereupon; and it consists of certain new and useful features of construction and combinations of parts hereinafter described, and pointed out in the claims.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 is a perspective view of my improved gage in the operation of cutting a vertical groove in the face of a door-jamb preparatory to forming a mortise therein to receive one of the leaves of a hinge. Figs. 2 and 3 are respectively top and under side views of the gage. Fig. 4 is a section of the same at the dotted line 4 4 in Fig. 3. Fig. 5 is an end view of the door-jamb, having its face and edge gaged, ready to cut a hinge-leaf mortise therein.

Like letters of reference indicate corresponding parts throughout the several views.

A is the gage-block considered as a whole, provided with longitudinal and transverse recesses A' A^2 in the under side thereof to receive the gage-bars B B′, which are longitudinally adjustable by being slid therein. The gage-block is also provided with guides A^3 A^4, which traverse the edge and face of a jamb when the same is being gaged for mortising.

A^5 A^6 are longitudinal and transverse slots extending through the gage-block into the recesses A' A^2 therein.

The gage-bar B is provided with a cutting-wheel B^2, mounted in its outer end, the outer face of said wheel being flat and parallel with the face of the guide A^3, its periphery having a sharp edge and its inner face being beveled therefrom toward its axis. The gage-bar B′ is constructed in the same manner as the bar B and equipped with a cutting-wheel B^3, identical with the cutting-wheel B^2. The gage-bars B B′ are also provided with thumb-screws B^4 B^5, inserted through the slots A^5 A^6 in the gage-block, for securing the same in position when longitudinally adjusted.

C is a door-jamb.

C′ is an inside casing of a door (not shown) opening inward.

Fig. 1 shows the manner of using the gage to make the cut C^2 on the face of the jamb C.

The cut C^3 in the edge of the jamb C is made by applying in like manner the guide A^4 of the gage to the face of the jamb C and propelling the same the requisite distance.

The cutting-wheels B^2 B^3 of my gage make sharply-defined clean cuts, leaving the edges C^4 C^5 of the unfinished mortise full and completely finished to receive the outer edge and inner portion of the inside face of the hinge-leaf. Moreover, these cutting-wheels are not deflected out of their course by the grain of the wood forming the jamb to be cut, nor by means of gummy or hard spots or small knots therein.

The gages now in common use are defective in the respects just noted.

The gage-bars B B′, when not in use, may be slid completely into their respective recesses A' A^2.

As a new and compact article of manufacture this gage surpasses any now in use.

I claim—

1. In combination, the gage-block having the longitudinal and transverse recesses therein, the gage-bars adapted to be longitudinally adjusted in said recesses and provided with cutting-wheels mounted in their outer ends, the outer faces of said cutting-wheels being flat, their peripheries having sharp edges and their inner faces being beveled therefrom toward their axes, and the thumb-screws for securing said gage-bars in position when adjusted, substantially as and for the purpose specified.

2. As a new compact article of manufacture, the gage-block A, having the longitudinal and transverse recesses A' A^2 therein and being provided with guides A^3 A^4, the longitudinally-adjustable gage-bars B B′, having cutting-wheels B^2 B^3 mounted in their outer ends, and the thumb-screws for securing said gage-bars in position when adjusted, substantially as and for the purpose specified.

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