

(No Model.)

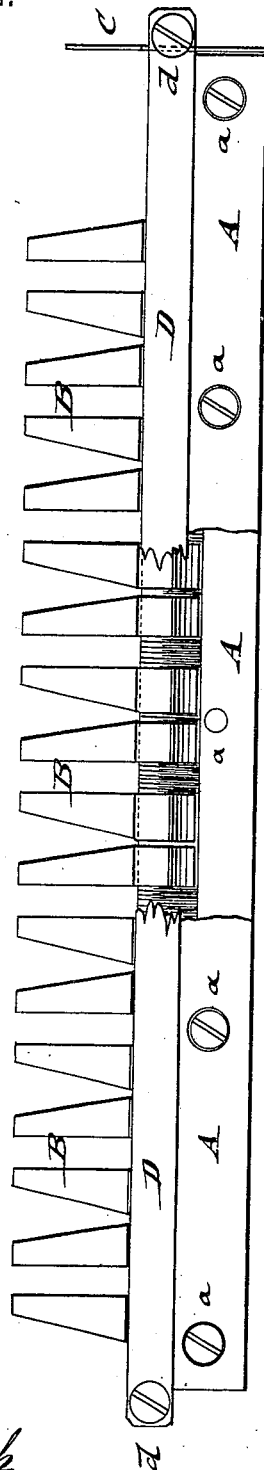
M. MERZ.

GAGE.

No. 266,042.

Patented Oct. 17, 1882.

Fig. 1.



WITNESSES:

H. Rappbach
Otto Pisch.

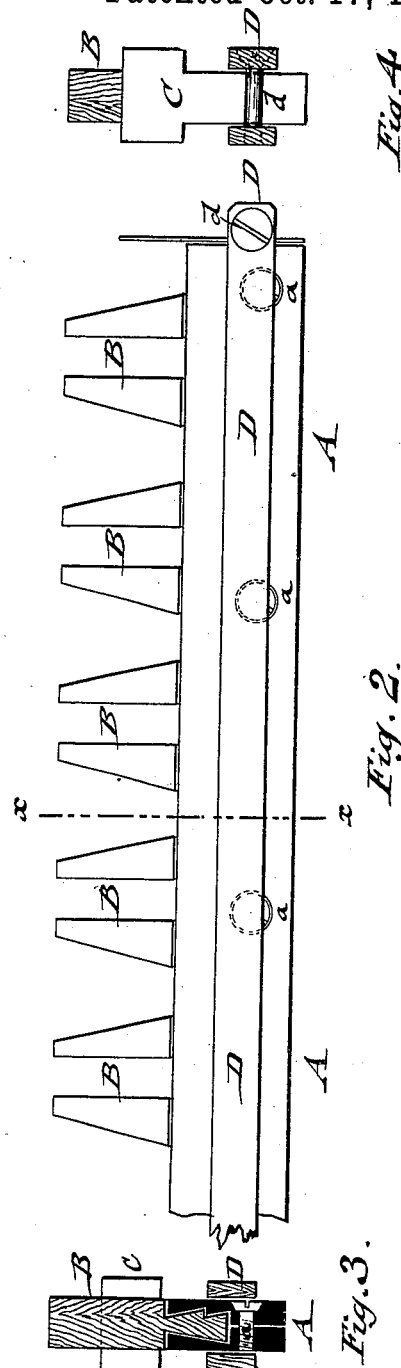


Fig. 4.

Fig. 2.

Fig. 3.

INVENTOR

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UNITED STATES PATENT OFFICE.

MAX MERZ, OF NEW YORK, N. Y.

GAGE.

SPECIFICATION forming part of Letters Patent No. 266,042, dated October 17, 1882.

Application filed July 1, 1882. (No model.)

To all whom it may concern:

Be it known that I, MAX MERZ, of the city, county, and State of New York, have invented certain new and useful Improvements in Gages for Joining Wood, of which the following is a specification.

This invention has reference to an improved device for marking off the guide-lines for cutting mortises and tenons of dovetail and other shape in joining wood-work for drawers and other articles of wood; and the invention consists of two longitudinally-recessed and transversely-connected main pieces or strips, which support a number of adjustable marking-pieces that are set at a proper distance from each other, as required for marking off the cutting-lines. A fixed end plate serves as a stop for laying on the gage to the wood, while longitudinal side strips that are adjustable along the supporting main strips admit the marking off of the cutting-lines at some distance back of the edge of the wood.

In the accompanying drawings, Figure 1 represents a side elevation, with a part broken out, of my improved gage for laying off the cutting-lines for the mortises and tenons in joining wood-work. Fig. 2 is a side view of the same, shown with the longitudinal side strips adjusted on the body of the gage; and Figs. 3 and 4 are respectively a vertical transverse section on line *x x*, Fig. 2, and an end view of the gage.

Similar letters of reference indicate corresponding parts.

A A in the drawings represent the supporting main strips of my improved gage for laying off the cutting-lines in joining the edges of wood-work. The main strips A A are made of equal size and of suitable metal and connected by transverse fastening-screws *a*. They are longitudinally recessed at the upper part, the recesses facing each other and being of dovetail or other shape for supporting a number of marking-pieces, B, which extend at right angles from the main strips A A, and are beveled at one side and straight at the other side. The shanks of the marking-pieces B B are recessed, so as to fit closely into the longitudinal recesses of the main strips, the upper projecting parts of the marking-pieces being equal in

thickness to the thickness of both main strips together.

The marking-pieces B are capable of being adjusted to any distance from each other in the main strips A A, after which the screws are tightened, so as to prevent them from shifting or changing their position in the main strips. By setting the markers B into proper position in the main strips and placing then the gage in position along the edge of the board the mortises and tenons are quickly marked off by running a sharp nail or other marking implement along the edges of the markers B. By then cutting the mortises and tenons in the edges of the boards they may be jointed with perfect accuracy.

To one end of the main strips A A is attached a fixed stop-plate, C, which is set against the end of the board when the gage is to be used for marking off the cutting-lines. The main strips A A are further provided with longitudinal side strips, D D, which are connected at the ends by means of transverse screw-bolts *d*, said side strips being secured tightly, either flush with the edge of the main strips A, so as to be placed against the edge of the wood to be jointed, or at some distance from the same along the body of the main strips A A, as shown in Fig. 2, the latter position being used when the cutting-lines are desired to be marked off at some distance from the edge of the wood, in case so-called "covered joints," which are not to be visible at the front part of the wood, are required.

My improved gage may be made up in any suitable size and material, and forms a cheap and very convenient means for carpenters, cabinet-makers, and other workers in wood for laying off their guide-lines for cutting the mortises and tenons in joining wood.

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

1. A gage for laying off the cutting-lines in joining wood, which consists of longitudinally-recessed supporting main strips A A, of a series of adjustable marking-pieces, B B, having shanks fitted into the recesses of the main strips, and of longitudinal side strips, D D, substantially as set forth.

2. The combination of longitudinally-re-

cessed main strips A A, adjustable marking-
pieces B B, having shanks fitting into the re-
cesses of the main strips, longitudinal side
strips, D D, and a stop-plate, C, at one end of
5 the gage, substantially as set forth.

3. The combination of longitudinally-re-
cessed main strips A A, adjustable marking-
pieces B B, stop-plate C, and longitudinal ad-
justable side strips, D, connected by transverse
10 end screws, *d*, substantially as specified.

In testimony that I claim the foregoing as
my invention I have signed my name in pres-
ence of two subscribing witnesses.

MAX MERZ.

Witnesses:

PAUL GOEPEL,
SIDNEY MANN.