(No Model.)

J. GIRAUD.

CLAMP.

No. 299,776. Patented June 3, 1884.

Fig. 1.

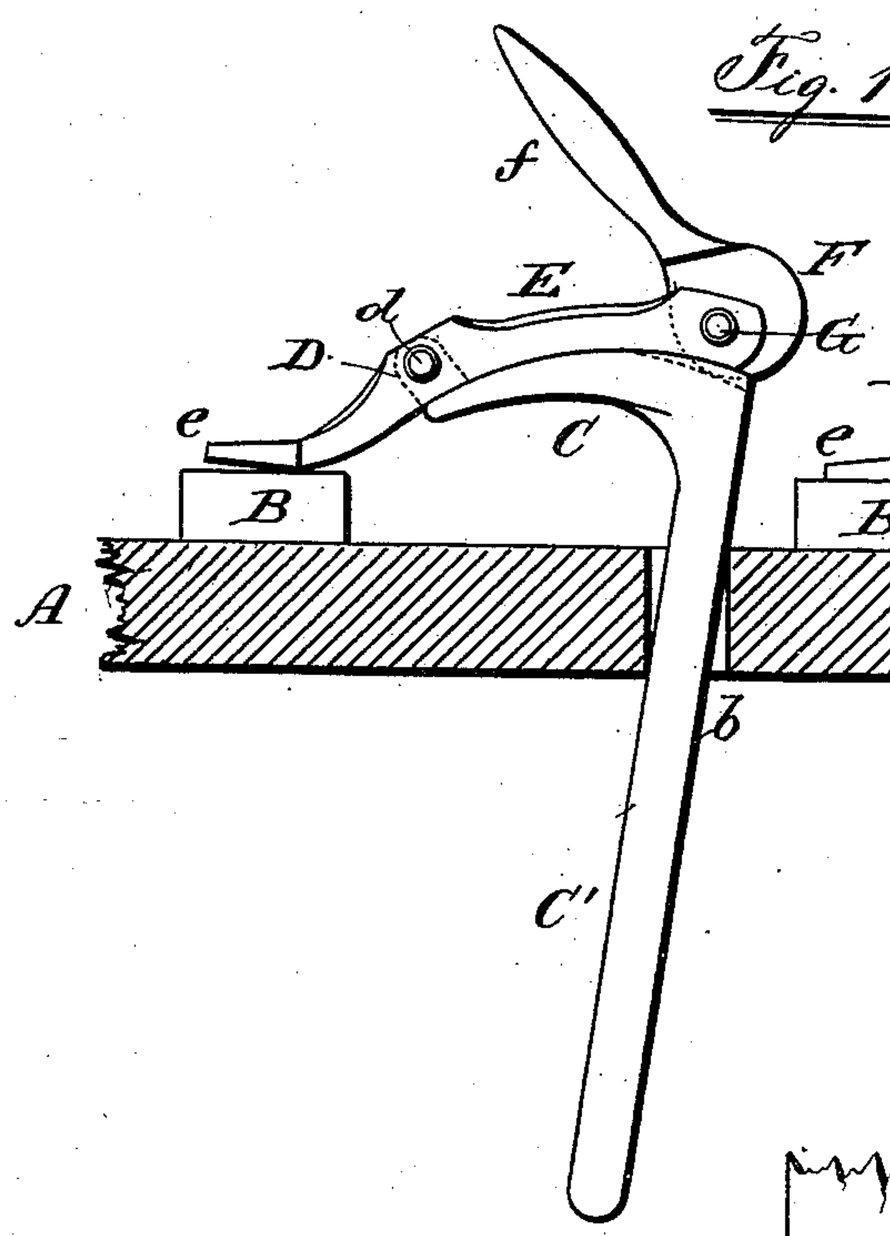


Fig. 2.

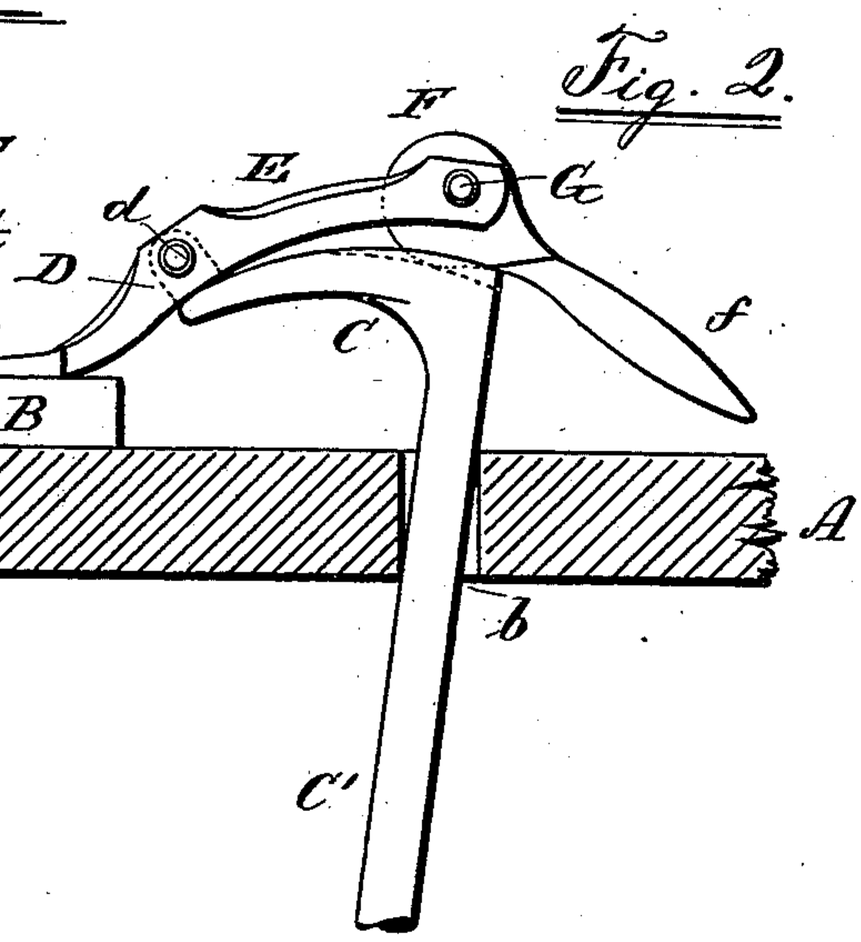
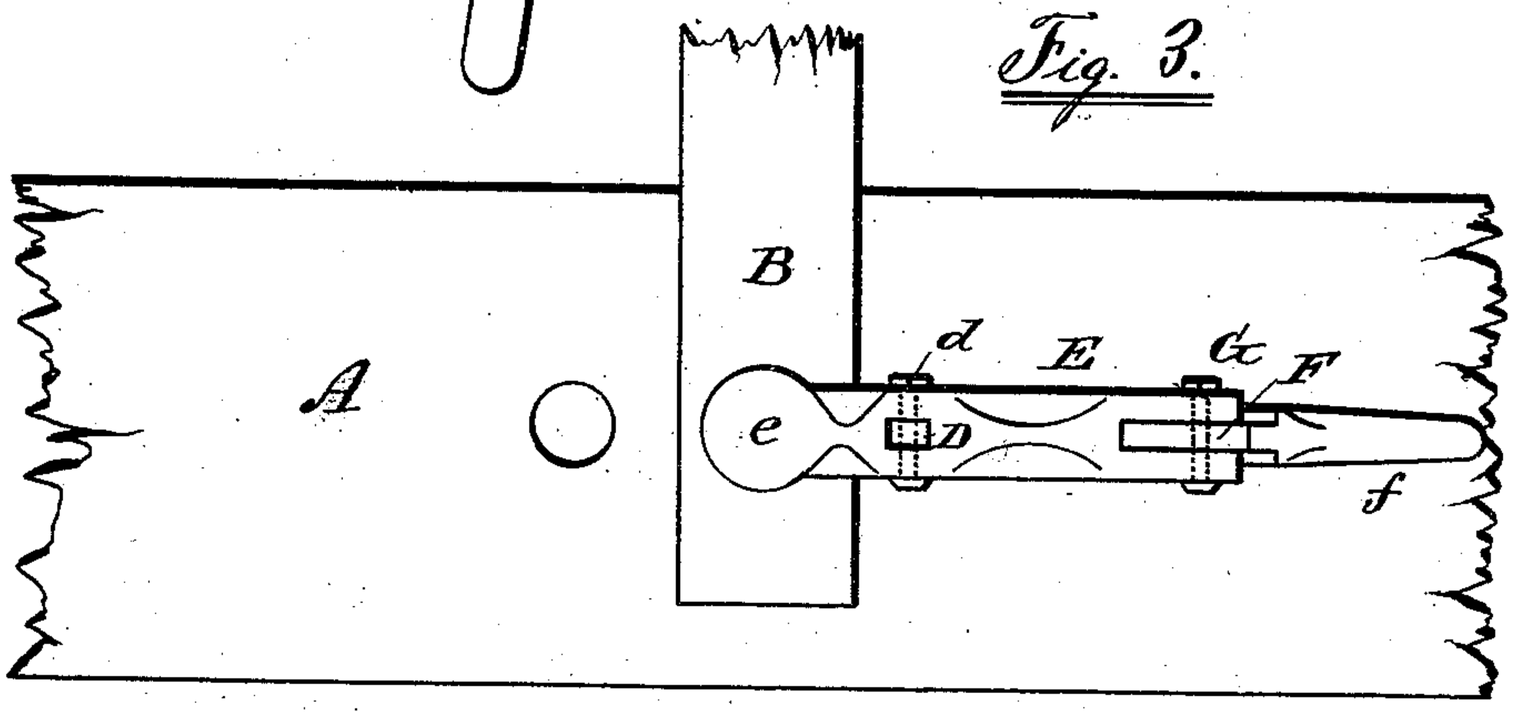


Fig. 3.



Witnesses:
Wm Fecher
" Arthur L. Morsell.

Inventor
Jean Giraud
By Louis Bagger & Co.
his attorneys

UNITED STATES PATENT OFFICE.

JEAN GIRAUD, OF CAUDEBEC-LES-ELBEUF, FRANCE.

CLAMP.

SPECIFICATION forming part of Letters Patent No. 299,776, dated June 3, 1884.

Application filed April 7, 1884. (No model.) Patented in France September 12, 1883, No. 157,512.

To all whom it may concern:

Be it known that I, JEAN GIRAUD, a resident of Caudebec-les-Elbeuf, in the French Republic, and a citizen of said French Republic, have invented certain new and useful Improvements in Joiners' Clamps; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of my improved clamp before locking it to fasten the article or material which is to be clamped. Fig. 2 is a similar view showing the device clamped or locked, and Fig. 3 is a plan or top view.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to clamps or holding devices for the use of carpenters, cabinet-makers, and other artisans; and it consists in the construction and combination of parts of the clamping device, which will be hereinafter more fully described and claimed, which can be readily manipulated by one hand, and can be applied to any work-bench of ordinary construction.

In the accompanying drawings, A denotes the top or table of a work-bench, and *b* one of several apertures made therein for the insertion of the shank or stem C′ of the device.

The letter B denotes a block of wood, which is clamped upon the bench by means of the device. The stem or shank C′ has a projecting curved head, C, provided with projecting lips D at its outer end, through which a bolt, *d*, is inserted transversely, forming a fulcrum or bearing for an arm, E, the outer end of which forms the clamping-jaw *e*. The opposite end of arm E is slotted or bifurcated for the insertion of a cam or eccentric, F, which is hinged upon the bolt G and provided with a handle, *f*, for operating it.

From the foregoing description, taken in connection with the drawings, the manner of using this device will be readily understood. When lever *f* is in the position shown in Fig. 1, the block B or other article to be clamped upon the table may readily be placed under the jaw *e*, as the device can be raised or lowered through the aperture *b* in the table to conform to the thickness of the article to be clamped. By now turning handle *f* down into the position indicated in Fig. 2, it will be seen that the jaw *e* will be brought down upon the block B with considerable pressure, so as to hold it fixed in its position upon the table. By turning handle *f* back into its former position the block can be removed in a moment of time.

I am aware that clamps of this class have been constructed before involving the combination of a stem or shank adapted to be inserted through an aperture in the work-bench, a bearing at the upper end of the shank, and a jaw pivoted in said bearing and actuated by a cam or eccentric operated by a lever; nor do I claim this construction and combination, broadly; but

What I claim as my improvement, and desire to secure by Letters Patent of the United States, is—

The combination of the curved bearing C, having stem or shank C′ and projecting lips D at its outer end, arm E, pivoted upon and adapted to bear against the bearing C between its lips D, thus relieving the fulcrum-bolt *d* from strain, and cam or eccentric F, having handle *f*.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of January, 1884.

JEAN GIRAUD.

Witnesses:
FREDERIC MATRAY,
EDWARD P. MACLEAN.