No. 874,724. PATENTED DEC. 24, 1907.

E. BARKER.

CLAMP BAR.

APPLICATION FILED APR. 5, 1907.

Fig. 2.

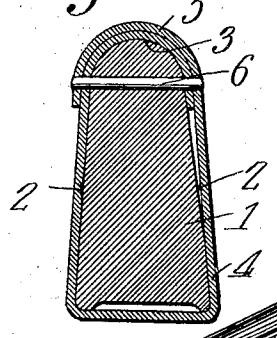


Fig. 1.

Fig. 3.

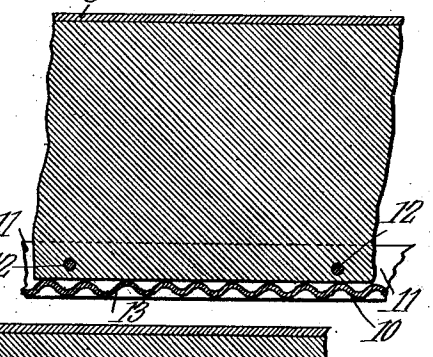


Fig. 4.

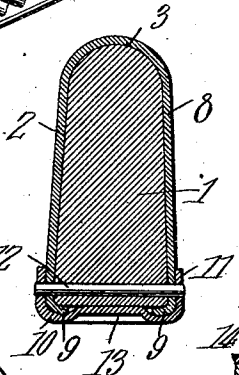


Fig. 6.

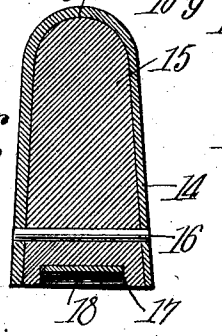
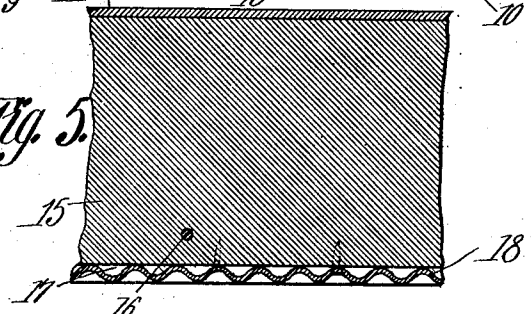


Fig. 5.



WITNESSES:

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CLAMP-BAR.

No. 874,724. Specification of Letters Patent. Patented Dec. 24, 1907.

Application filed April 5, 1907. Serial No. 366,599.

To all whom it may concern:

Be it known that I, EUGENE BARKER, a citizen of the United States, residing at Batavia, in the county of Genesee and State of New York, have invented a new and useful Clamp-Bar, of which the following is a specification.

This invention relates to bars for use in connection with gluing clamps such as employed by cabinet makers and the like for holding together objects to be glued. Heretofore bars of this character have been formed entirely of metal or of wood. In view of the proportions of the bars, however, it has been found objectionable to make them entirely of metal because of their weight and the resultant difficulty in handling them. Wooden bars are also objectionable because it is impossible to notch them close together so as to permit a minute adjustment of the jaw of the clamp. Obviously if the notches are placed close together the jaw when subjected to pressure will chip the bar and the notches will not hold.

The object of the present invention is to combine in a bar all of the advantages of wooden and metallic bars by providing a bar possessing almost the lightness of a wooden bar and the strength and rigidity of a metal bar, said bar also permitting a minute adjustment which may be obtained by the use of an all-metal bar.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a perspective view of a portion of a bar constructed in accordance with the present invention; Fig. 2 is a transverse section therethrough; Fig. 3 is a longitudinal section through a portion of a modified form of bar; Fig. 4 is a transverse section through the bar shown in Fig. 3; Fig. 5 is a longitudinal section through a portion of another form of bar; and Fig. 6 is a transverse section therethrough.

Referring to the figures by characters of reference, 1 designates a wooden core of any suitable proportions preferably provided with converging faces 2 merging into a rounded edge portion 3. Fitting snugly around the core is a jacket 4 of sheet metal the edge portions of which are curved around the surface 3 and lap as shown at 5. Rivets 6 extend transversely through the core and through the lapping portions of the jacket so that the jacket and core are securely fastened together. That face of the jacket located opposite the lapping portions 5 has a longitudinally extending series of transverse grooves 7 formed therein and extending to points adjacent opposite edges of said face. These grooves are designed to receive teeth upon the adjustable jaw, not shown, and as the jacket is formed of metal it is apparent that the grooves can be placed very close together so as to permit a minute adjustment of the bar. It is obvious that a bar constructed in this manner is considerably lighter than an all-metal bar and at the same time possesses the rigidity and durability of such a bar. By providing the lapping portions 5 the bar is greatly strengthened and will not become dented when subjected to the pinching action of a jaw subjected to pressure.

Instead of forming the jacket of a single sheet of metal as shown in Figs. 1 and 2 the same can be made of a U-shaped member 8 in which the core snugly fits and the edges of this member 8 are bent toward each other as shown at 9 so as to lap opposite portions of the narrow face of the core. A cap 10 is then placed upon said face of the core and this cap consists of a strip of metal the longitudinal edge portions of which lap the sides of the member 8 as shown at 11 and are secured thereon by rivets 12 extending transversely through the core and through the lapping portions of the jacket. That portion of the cap located between the inturned edges 9 has a longitudinal series of transverse grooves 13 formed therein by stamping the cap or by passing it between corrugated rollers. This bar is designed to be used in the same manner as is the bar shown in Figs. 1 and 2.

Another construction of bar has been disclosed in Figs. 5 and 6 wherein the jacket 14 does not surround the core 15 but leaves the narrow flat face thereof exposed, said jacket being secured to the core by means of a rivet 16. A longitudinal groove 17 is formed within the exposed face of the core and secured therein in any suitable manner is a metal strip 18 which is crimped or corrugated transversely and is designed to be used for the same purpose as the grooved portions 7 and 13 heretofore referred to.

It will be seen that the bars herein de-

scribed are nearly as light as all-wood bars of the same proportions and that they possess practically the same strength and rigidity as all-metal bars. Any one of the bars described can be constructed at comparatively slight cost and will be found very efficient for the purposes intended.

What is claimed is:

1. A clamp bar comprising a core having a flat metallic portion disposed longitudinally upon one face thereof, and corrugations integral with said metallic portion and flush with the outer face thereof.

2. A clamp bar comprising a core, and a metallic jacket secured thereto and having a flat surface, said jacket having corrugations integral and flush with said surface.

3. A clamp bar comprising a core and a metallic jacket having a longitudinal series of transverse corrugations, said corrugations being flush with the outer face of the core.

4. A clamp bar comprising a core, a longitudinally reinforced jacket thereon, and a longitudinally extending series of transverse corrugations having their outer portions flush with one face of the jacket.

5. A clamp bar comprising a core, a metallic jacket surrounding the core and having lapping partions, and securing means extending through the core and lapping portions, said jacket having a longitudinally extending series of transverse corrugations.

6. A clamp bar comprising a core and a longitudinally reinforced metallic jacket fitting snugly upon and secured to the core.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EUGENE BARKER.

Witnesses:

WM. F. SALTER,

HERBERT D. LAWSON.