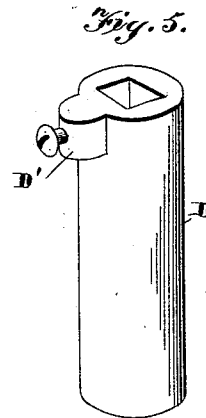
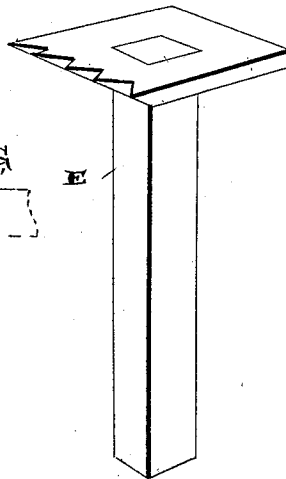
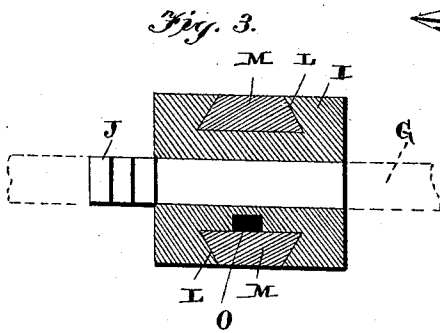
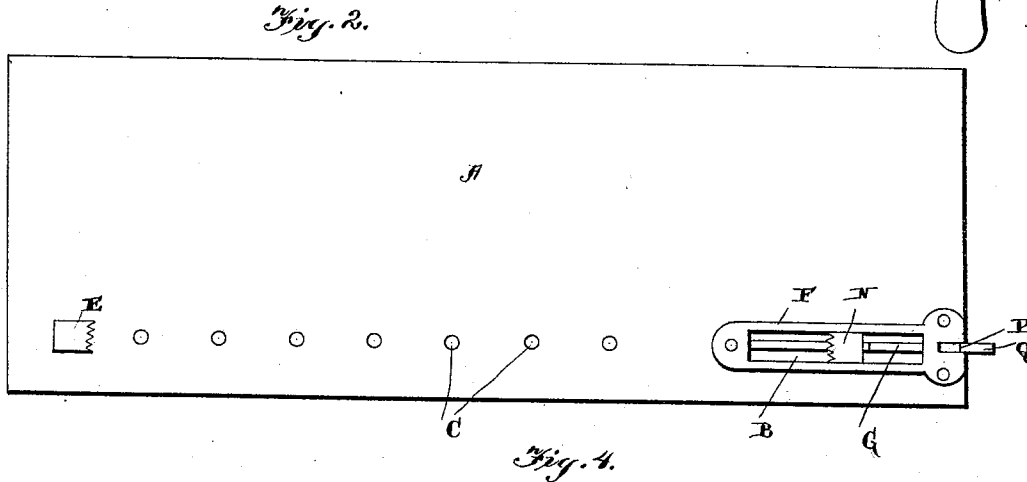
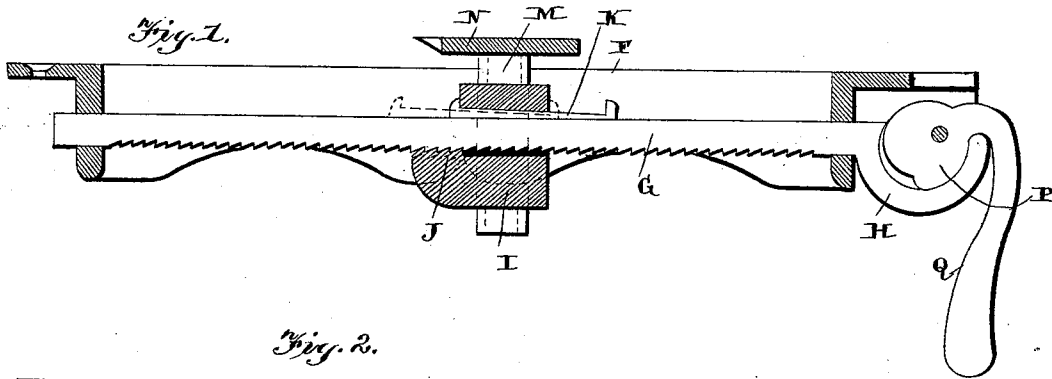


(No Model.)

C. A. WAYLAND.
BENCH DOG.

No. 517,317.

Patented Mar. 27, 1894.



WITNESSES.

Geo. E. Trech.

Poland A. Fitzgerald.

INVENTOR.

C. A. Wayland.

Lehman Patison Nesbit atty

UNITED STATES PATENT OFFICE.

COLUMBUS A. WAYLAND, OF HARRISBURG, TENNESSEE.

BENCH-DOG.

SPECIFICATION forming part of Letters Patent No. 517,317, dated March 27, 1894.

Application filed February 17, 1893. Serial No. 462,767. (No model.)

To all whom it may concern:

Be it known that I, COLUMBUS A. WAYLAND, of Harrisburg, in the county of Sevier and State of Tennessee, have invented certain new and useful Improvements in Bench-Dogs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in bench dogs; and it consists in the novel features of construction hereinafter fully described and especially referred to in the claim.

The object of my invention is to provide an improved clamp for carpenters' benches.

Referring to the accompanying drawings:—Figure 1 is a longitudinal sectional view of my improved mechanism. Fig. 2 is a plan view of the same shown in position on a work bench. Fig. 3 is a horizontal sectional view of the movable dog. Figs. 4 and 5 are detail views of the bench post or stop.

A designates the bench top having the longitudinal groove B near one end and a series of openings C in line therewith. Adapted to fit in the latter is the socket D having a lateral extension D' through which a set screw is run for holding the end post or stop E in the desired vertical adjustment. It will be seen that this post may be moved any desired distance from the slot B and thus accommodate material of various lengths. Secured in slot B is a frame F and inclosed therein is the longitudinally movable bar G having hook H formed on its outer end. The under edge of the bar is serrated as shown.

I is a horizontally recessed dog carrier through which the bar extends and projecting from this carrier is the serrated jaw J which when the carrier is raised engages the serrated edge of the bar G and the carrier is thus held from movement thereon.

K designates a locking wedge headed at each end and located between the carrier and the top edge of bar G. When the wedge is forced inward as shown in solid lines in Fig. 1 the carrier I is raised and thus clamped firmly to the bar G, but when the wedge is moved outward as shown in dotted lines in the same figure then the carrier drops and may be moved to any desired point on the bar and there clamped. The opposite sides of carrier I are formed with vertical dove tail

slots L which take the correspondingly formed shanks M of the dog N. A piece of rubber O projects from the body of the carrier into one of these dovetail slots and impinges the shank M which enters the same and by this means the dog is held in the desired elevation.

Pivoted in the outer end of the frame F is the cam P and extending outward and downward therefrom is the lever Q. The cam P is partially encircled by hook H so that by operating the lever Q the cam is turned in hook H and the bar G moved longitudinally as will be readily understood.

In operation the piece of material to be operated upon is placed against the post E and, with the lever Q raised, in which position the bar G is projected outward, the carrier I with its dog is adjusted to the outer end of the piece of material. A downward movement of the lever serves to force inward the bar G, thus forcing the dog into the end of material and securely holding the latter in place.

By providing several sockets for the post E sticks of different lengths may be readily clamped, while the double longitudinal adjustment of dog N is of great advantage in securing a firm hold on the same. The lever Q turns down out of the way of the operator which is a decided improvement over the projecting screw ends of the dog of ordinary construction.

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

The herein described bench dog consisting of the elongated metal frame longitudinally slotted, and extending through an edge of a work bench, the longitudinally movable bar G, located longitudinally in said frame and having the serrated lower edge, the dog carrier and dog carried by said bar, said bar having the hook H, located within the outer end of the frame, the cam P, fulcrumed in the outer end of said frame within said hook with opposite sides of the hook engaging the periphery of said cam at diametrically opposite points, said cam having the handle extending from a point above its pivotal point.

In testimony whereof I affix my signature in presence of two witnesses.

COLUMBUS A. WAYLAND.

Witnesses:

W. H. GAGLE,
W. R. LADD.