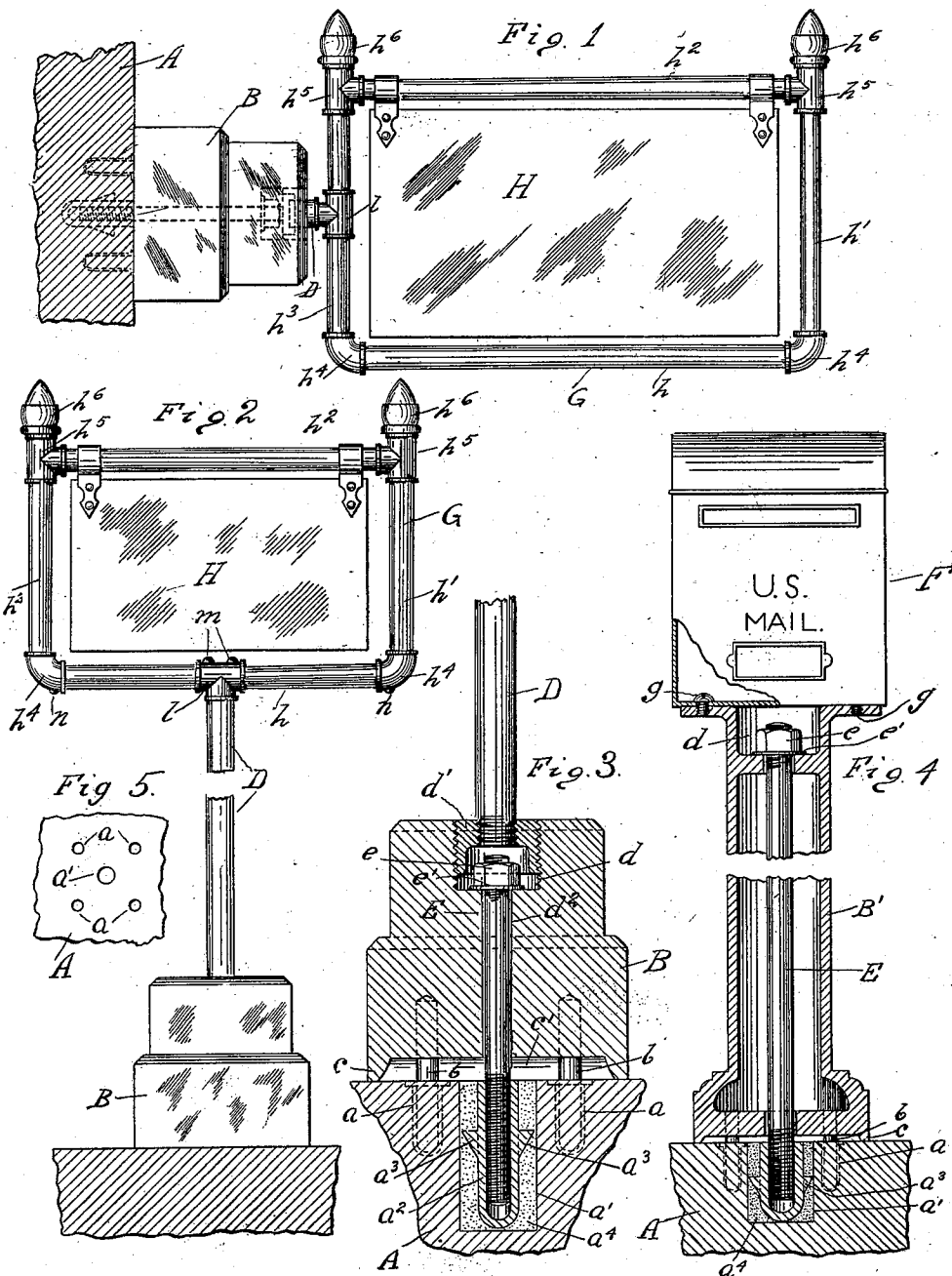


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E. FENTON.
STRUCTURAL SUPPORT.
(Application filed Nov. 1, 1901.)

(No Model.)



Witnesses.

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STRUCTURAL SUPPORT.

SPECIFICATION forming part of Letters Patent No. 692,841, dated February 11, 1902.

Application filed November 1, 1901. Serial No. 80,743. (No model.)

To all whom it may concern:

Be it known that I, EUGENE FENTON, a citizen of the United States, residing at Evanston, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Structural Supports, of which the following is a specification.

This invention relates to improvements in means for supporting either in a horizontal or upright position various devices, such as sign-boards, United States mail-boxes, fire-alarm boxes, barber-posts, electric-light poles, pillars for building purposes, and other structures; and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The principal object of my invention is to provide a detachable support for devices of various kinds which may be readily secured to a vertical wall or a floor, sidewalk, or other horizontal base and can be readily detached therefrom.

Another object is to provide a support of the above-named character which will hold the device in a firm and fixed manner, so that it will not wobble or shake.

Other objects and advantages of the invention will be disclosed in the subjoined description.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a view, partly in section and partly in elevation, of a support embodying my invention and showing it secured to a vertical wall and supporting a sign-board in a horizontal position. Fig. 2 is a similar view showing the support secured to a horizontal base or sidewalk and supporting the sign-board in a vertical position. Fig. 3 is an enlarged sectional view of the lower portion of the support. Fig. 4 is a view, partly in elevation and partly in section, showing a modification in the construction of the support and illustrating it as supporting a mail-box; and Fig. 5 is a plan view or view in elevation of a portion of the floor or wall to which the support is secured.

Similar letters refer to like parts throughout the different views of the drawings.

A represents a wall, floor, sidewalk, or other suitable base to which the support is secured and is provided with four openings *a*, arranged so as to form a rectangular figure, if united by straight lines, and with a central opening *a'*, as shown in Fig. 5 of the drawings. The openings *a* are for the reception of pins or projections *b*, secured to the lower surface of the body B of the support, which body may be in the form of a block, as shown in Figs. 1 to 3, inclusive, of the drawings or may be a post B', as shown in Fig. 4 of the drawings. The lower portion of the body or that part thereof adjacent to the wall or base to which it is secured is provided at its perimeter with flanges *c*, which form a cavity *c'* and afford rests at the edges of the body, as is apparent. The upper or outer portion of the body is provided with an opening *d*, which is usually screw-threaded, as shown in Fig. 3 of the drawings, to receive a screw-threaded nut *d'*, which has a screw-threaded opening to engage a screw-threaded pipe or bar D, to the outer or upper end of which may be secured the frame for a sign-board or other device. As shown, the body B is provided with a central opening *d*², extending from the opening *d* to the cavity *c'*, and is for the reception of a bolt E, which is preferably screw-threaded at each of its ends. The lower end of said bolt engages a socket-piece *a*², located in the opening *a'*, and has on its outer walls angular wings or flanges *a*³, which are flat on their upper ends. The opening *a'* is filled around the socket-piece *a*² with cement *a*⁴, which when it becomes hardened firmly holds said socket-piece in position, the flanges *a*³ thereof serving to prevent it turning or being removed vertically. On the upper end of the bolt E is located a nut *e*, which rests on a washer *e'*, located on the bottom of the recess or opening *d* in the upper or outer portion of the body. Engaging the screw-threaded recess or opening *d* is the screw-threaded plug *d'*, which I may sometimes use and which is screwed down in said opening, so as to be flush with the outer or upper surface of the body, as shown. When the body is formed of a hollow post, as shown in Fig. 4 of the drawings, the nut or plug *d'* is not required, and the box F or other device

which is to be supported may be secured to the upper or outer end of the body by means of screws *g* or otherwise.

In Figs. 1 and 2 of the drawings I have shown
5 a sign-board frame *G* as being supported by the pipe or rod *D*; but of course any other suitable device may be used instead of said frame. This frame, however, comprises sections *h*, *h'*, *h*², and *h*³ of gas-pipe, united together by means of couplings *h*⁴ and *h*⁵, the
10 latter being T-couplings and the former ordinary union or elbow couplings. The upper ends of the T-couplings *h*³ may have located therein ornamental pieces *h*⁶, which
15 may be removed when desired to permit of small flags or other ornaments being inserted therein. Hinged to the section *h*² of the frame is a board *H*, upon which may be displayed any suitable sign.

20 The pipe or bar *D* is connected to the section *h* of the frame by means of a T-coupling *l*, and in order to prevent said coupling turning on the section *h* set-screws *m* may be employed, and for this purpose set-screws *n*
25 may be used on the couplings *h*⁴, as shown in Fig. 2 of the drawings.

From the foregoing and by reference to the drawings it will be seen and clearly understood that by the use of my invention a strong,
30 durable, and effective support for various devices is provided, which support may be readily attached to the sidewalk or wall in a firm and secure manner and readily detached therefrom. It is also apparent that my construction affords secure means for sustaining
35 in the desired position a hollow post or pillar and in such a way that said post or pillar can be readily detached from the foundation or base on which it is mounted.

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

1. A structural support, comprising a base or foundation having a series of openings, an internally-screw-threaded socket-piece having on its outer surface flanges or projections,
45 and located in the central opening of said base, cement located around said socket-piece, a body having on its surface adjacent to the base or foundation, flanges at its perimeter, and
50 pins or projections, and provided with a central opening, a screw-threaded pipe or bar extending through the central opening of the body and engaging at one of its ends the said socket-piece, and a nut engaging the other
55 end of the pipe or bar and the upper end of the body, substantially as described.

2. In a structural support, the combination with a base or foundation having a series of openings, of a flanged and internally-screw-threaded socket-piece located in one of said
60 openings, cement surrounding said socket-piece, a body having a central opening and provided with projections on its surface adjacent to the base or foundation to fit in some
65 of the openings thereof, a pipe or bar screw-threaded at each of its ends and located in the central opening of the body, one of the ends of the said pipe or bar engaging the
70 socket-piece, a nut on the other end of the pipe or bar, a screw-threaded plug engaging the outer end of the central opening of the body, a pipe or bar secured at one of its ends to said plug, a frame composed of pipe-sections united together by couplings, and
75 secured to the outer or upper end of the last-named pipe or bar, and a board hinged on one of the sections of said frame, substantially as described.

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Witnesses:

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