

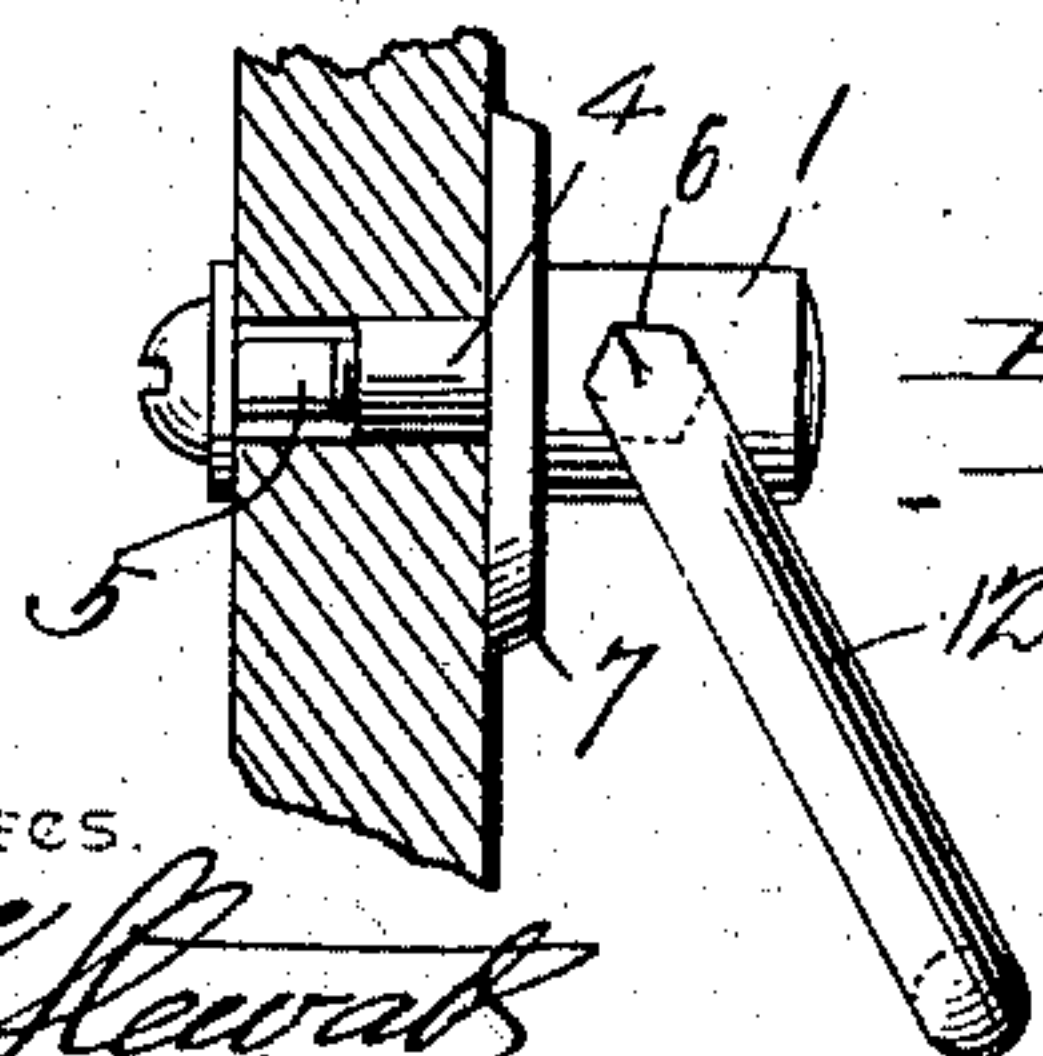
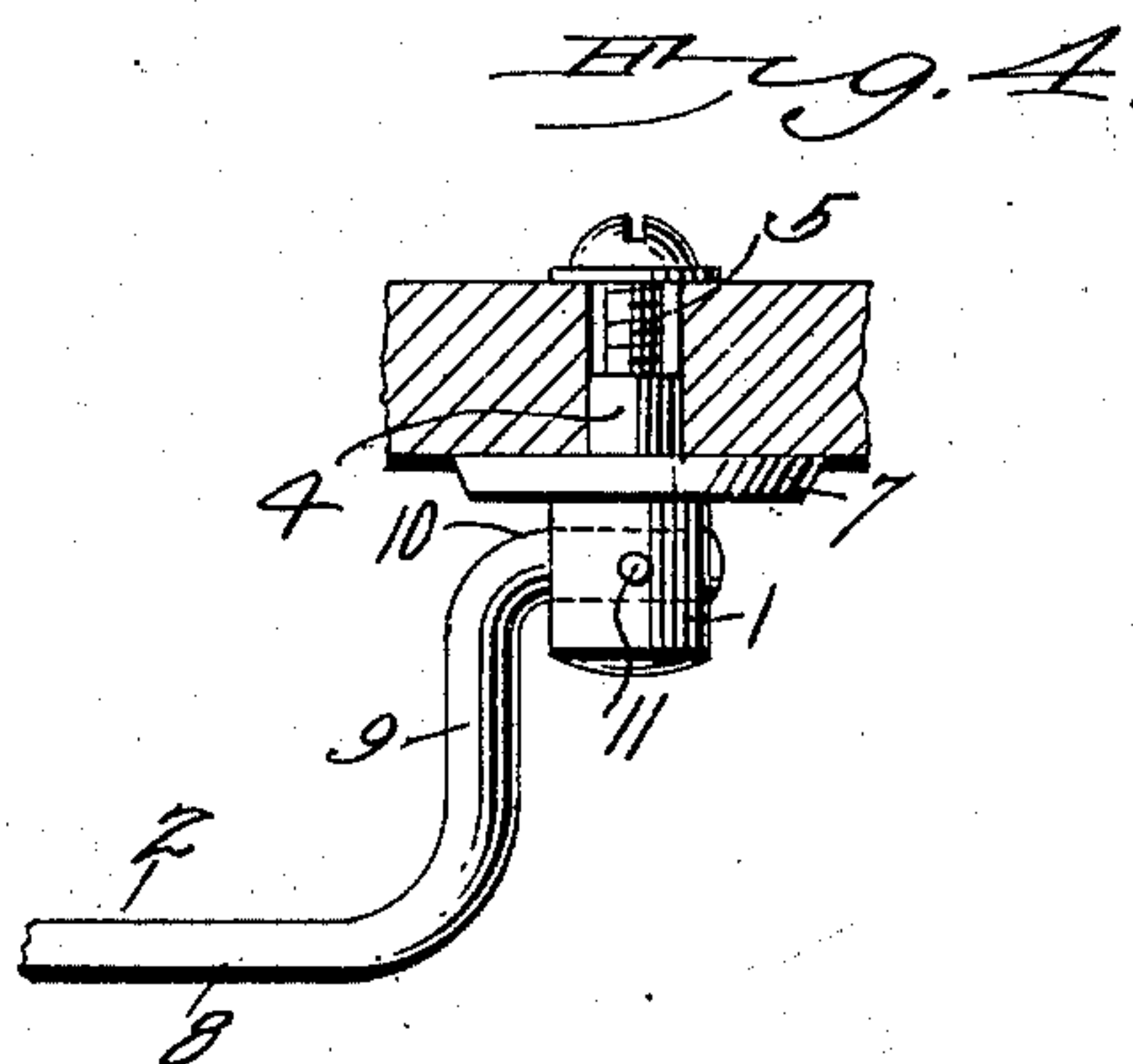
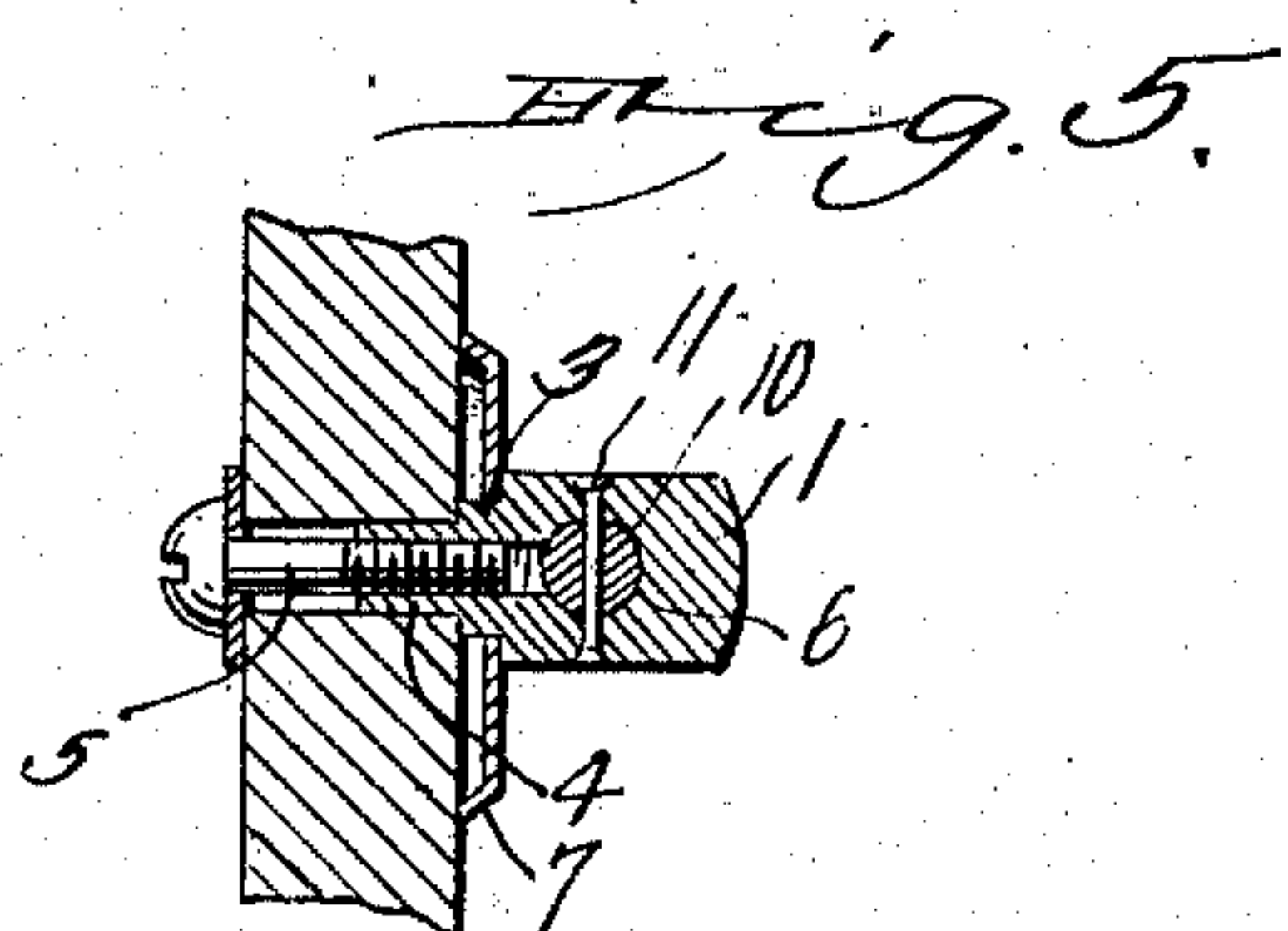
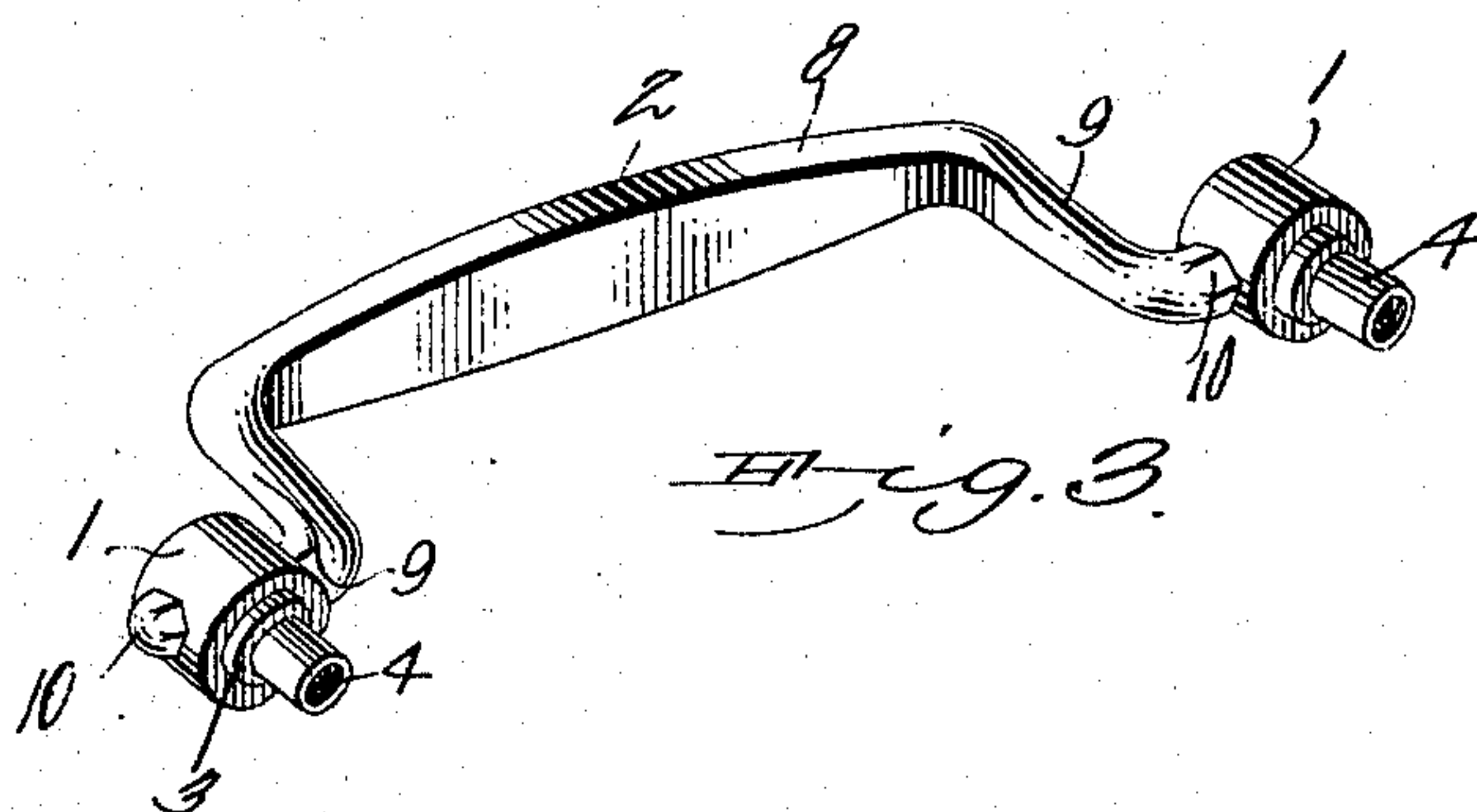
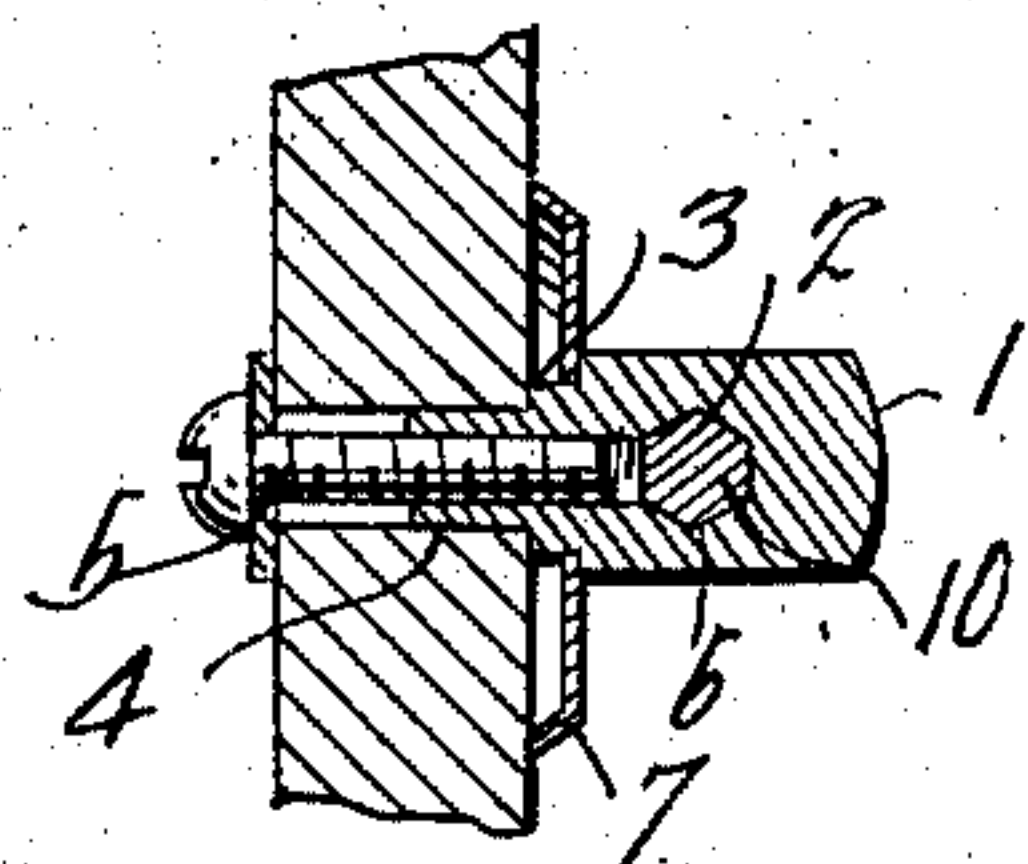
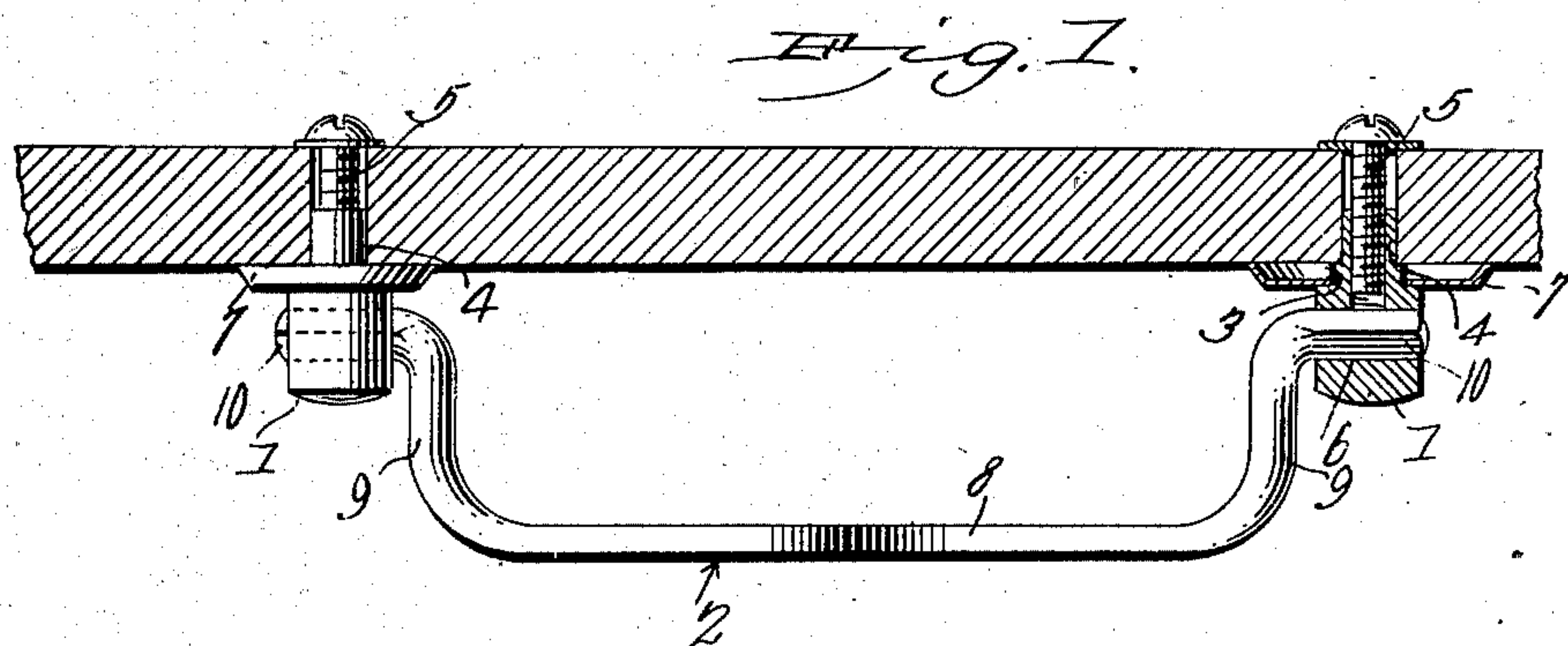
No. 749,410.

PATENTED JAN. 12, 1904.

D. W. TOWER.
DRAWER PULL.

APPLICATION FILED JUNE 9, 1902.

NO MODEL.



Witnesses.
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UNITED STATES PATENT OFFICE.

DANIEL W. TOWER, OF GRAND RAPIDS, MICHIGAN.

DRAWER-PULL.

SPECIFICATION forming part of Letters Patent No. 749,410, dated January 12, 1904.

Application filed June 9, 1902. Serial No. 110,890. (No model.)

To all whom it may concern:

Be it known that I, DANIEL W. TOWER, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented a new and useful Drawer-Pull, of which the following is a specification.

This invention relates generally to drawer-pulls, and particularly to that class known as "rigid" pulls, in which the handle or bail is rigidly associated with the posts.

The object of the invention is in a simple, feasible, practical, and inexpensive manner to reduce the leverage on the handle-posts to a minimum, thus to obviate loosening and attendant wobbling resulting from lateral strains to which they are subjected in use.

As will hereinafter appear, the object above stated is accomplished by constructing the exterior or handle-engaging portions of the posts as short as possible and in combining therewith a handle or bail having a high arch or bend, thus to present ample room to permit insertion of the hand between the handle and the drawer. By thus disposing the post-engaging portions of the handle adjacent to the drawer or other object to which the handle is secured the leverage on the posts is reduced to a minimum and any loosening or wobbling thereof will be positively obviated.

With these and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a drawer-pull, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate corresponding parts, there are illustrated three forms of embodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the spirit thereof.

In the drawings, Figure 1 is a view in plan, partly in section, exhibiting the drawer-pull associated with a drawer. Fig. 2 is a view in vertical transverse section through one of

the posts. Fig. 3 is a perspective detail view of the drawer-pull. Fig. 4 is a plan view, partly in section, of a slightly-modified form of drawer-pull. Fig. 5 is a view in vertical transverse section through the post and handle shown in Fig. 4. Fig. 6 is a view of another modification of the invention.

Referring to the drawings, and particularly to Figs. 1, 2, and 3 thereof, 1 designates the post, and 2 the handle or bail, of the drawer-pull. The post may be circular in cross-section, as shown, or otherwise contoured, and is provided with a reduced shoulder 3 and a shank 4, interiorly threaded for engagement by the usual attaching-screw 5, such as is usually employed in structures of this character. In a full-sized drawer-pull the post is about one-half inch high—that is to say, projects about that distance beyond the face of the drawer—and is provided with a transverse orifice 6 for the reception of the terminal of the handle, this orifice, as clearly shown in Fig. 2, being polygonal in cross-section, the terminal of the handle being similarly shaped, thus to hold it rigidly against turning within the post. The orifice 6 is disposed as close as practicable to the shoulder 3 in practice within about one-sixteenth of an inch thereof, and by this arrangement it will be seen that the terminals of the handle lie close to the drawer, so that in use the leverage on the posts will be reduced to such an extent as positively to obviate any tendency of working loose in use. The shoulder 3 is provided for engagement by the ordinary rosette or ornamental plate 7, and this in practice is to be a dished structure, as usual, of the minimum depth. The handle 2 may be constructed as shown or otherwise, and its bar 8 is thrown the requisite distance beyond the surface of the drawer by the side members 9, which terminate in the terminals 10, before described.

Instead of providing the posts with polygonal openings to be engaged by the terminals of the handle, thus to prevent the latter from turning, this may be accomplished by making the said terminals circular in cross-section, as shown in Figs. 4 and 5, with the receiving-orifices in the posts of like contour, and then securing the parts together by a rivet or pin

11, as clearly shown in Figs. 4 and 5. The same ideas may be carried into effect in connection with a ring-pull, as shown in Fig. 6, in which the terminals of the ring 12 will be
5 polygonal in cross-section for the purpose defined, or, if preferred, the said terminals may be secured within the post by a rivet or pin, as shown in the form of embodiment of the invention illustrated in Figs. 4 and 5.

10 It will be obvious in the practical application of the invention that various changes in proportion and contour of the parts may be adopted without departing from the underlying principle of the invention, which is the
15 provision of a post having the handle-terminal-receiving opening disposed as close as practicable to the surface of the object to which it is secured, and the provision of a high-arched handle or bail having its terminal rigidly fixed within said post-opening.
20

Where the posts are provided with the polygonal handle-terminal-receiving openings, adjustment of the handle at various an-

gles with relation to the drawer may be effected, if found necessary or desirable, thereby
25 enlarging the field of usefulness of the device.

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

1. As a new article of manufacture, a 30 drawer-pull comprising a pair of posts and a handle having its terminals seated in the posts and rigidly adjustable at different angles with relation thereto.

2. As a new article of manufacture, a 35 drawer-pull comprising a pair of posts each having a transversely-disposed polygonal orifice, and a handle having polygonal terminals to engage the orifices.

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

DANIEL W. TOWER.

Witnesses:

E. L. KNAPP,

CHAS. D. REEVE.