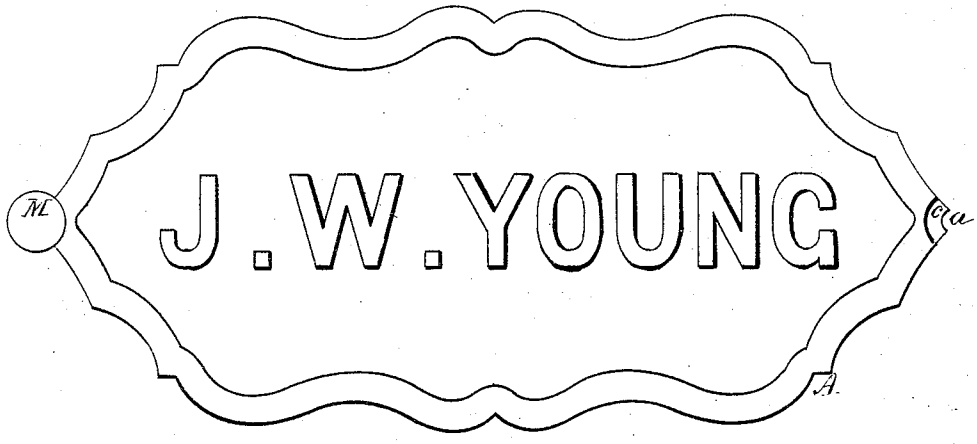
J. W. YOUNG, C. A. REED & W. H. SHAFER.

DOOR-PLATE ATTACHMENT.

No. 178,699. Patented June 13, 1876.

Fig. 1.



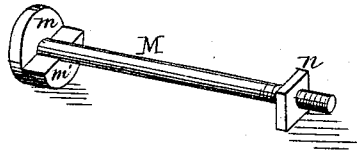


Fig. 2.

Witnesses;
Granville Lewis
Jasper Turner.

Inventor;
John W. Young
Chas. A. Reed
W. H. Shafer
By Hill Ellsworth
their attys.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN W. YOUNG, CHARLES A. REED, AND WILLIAM H. SHAFER, OF WHEELING, WEST VIRGINIA.

IMPROVEMENT IN DOOR-PLATE ATTACHMENTS.

Specification forming part of Letters Patent No. **178,699**, dated June 13, 1876; application filed April 28, 1876.

To all whom it may concern:

Be it known that we, JOHN W. YOUNG, CHARLES A. REED, and WILLIAM H. SHAFER, of Wheeling, in the county of Ohio and State of West Virginia, have invented a new and Improved Fastening for Door-Plates, &c.; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation representing a door-plate as secured to the door by our invention, one of the bolts being in place, and the other removed, and Fig. 2 is a perspective view of the bolt employed for the purpose of securing the plate in place.

Similar letters of reference in the accompanying drawings denote the same parts.

The object of this invention is to provide for public use an improved means of securing to doors door-plates made of cast, molded, or pressed glass, metal, or other material; and the invention consists in the employment of a peculiarly-formed bolt, in combination with the door and door-plate, substantially as I will now proceed to set forth.

In the drawings, A represents the door-plate, made of any suitable material, and provided at the ends with recesses *a*, which embrace about half the body of the fastening-bolts, and with countersinks *c*, which receive one side of the heads of the bolts. A hole is made in the door at each end of the plate A, through which extends the bolt which is secured on the inner side of the door by means of a screw-nut, *n*, or the equivalent thereof. The bolt M is formed with a peculiarly-shaped head, *m m'*, the part *m* being circular in outline, and suitably finished on its outer surface, and the part *m'* being semicircular in its outline, with its convex surface continuous with the convex lateral surface of one side of the part *m*, and being of such depth that the inner flat face will fit against the wood of the door, while the inner flat face of the part *m* will fit against the countersunk portion *c* of the door-plate, thus making a smooth neat finish at the ends of the plate. This mode of fastening is especially desirable in connection with glass plates, and may be applied not only to door-plates, but to coffin-plates, and all other plates designed to be removably attached to any structure for the purpose of exhibiting a name, sign, or other device.

When glass plates are employed, the sign or name may be applied in gilt or other letters to the rear side, and covered and protected by a coat of paint, oil, or other suitable material, and for the purpose of protecting the letters from the wet, or from being rubbed or scratched before the plate is secured in place, the rear side of the glass plate may be made concave, or, in other words, provided with a raised flange around its edge which fits against the door.

We claim as our invention—

1. The bolt M, having the screw-nut *n*, and the head *m. m'*, constructed substantially as described.

2. The combination of the bolt M *m m' n*, with the plate A, having the recess *a*, and countersink *c*, substantially as described.

JOHN W. YOUNG.
CHAS. A. REED.
W. H. SHAFER.

Witnesses:
R. S. BROWN, Sr.,
GEORGE HEIL.