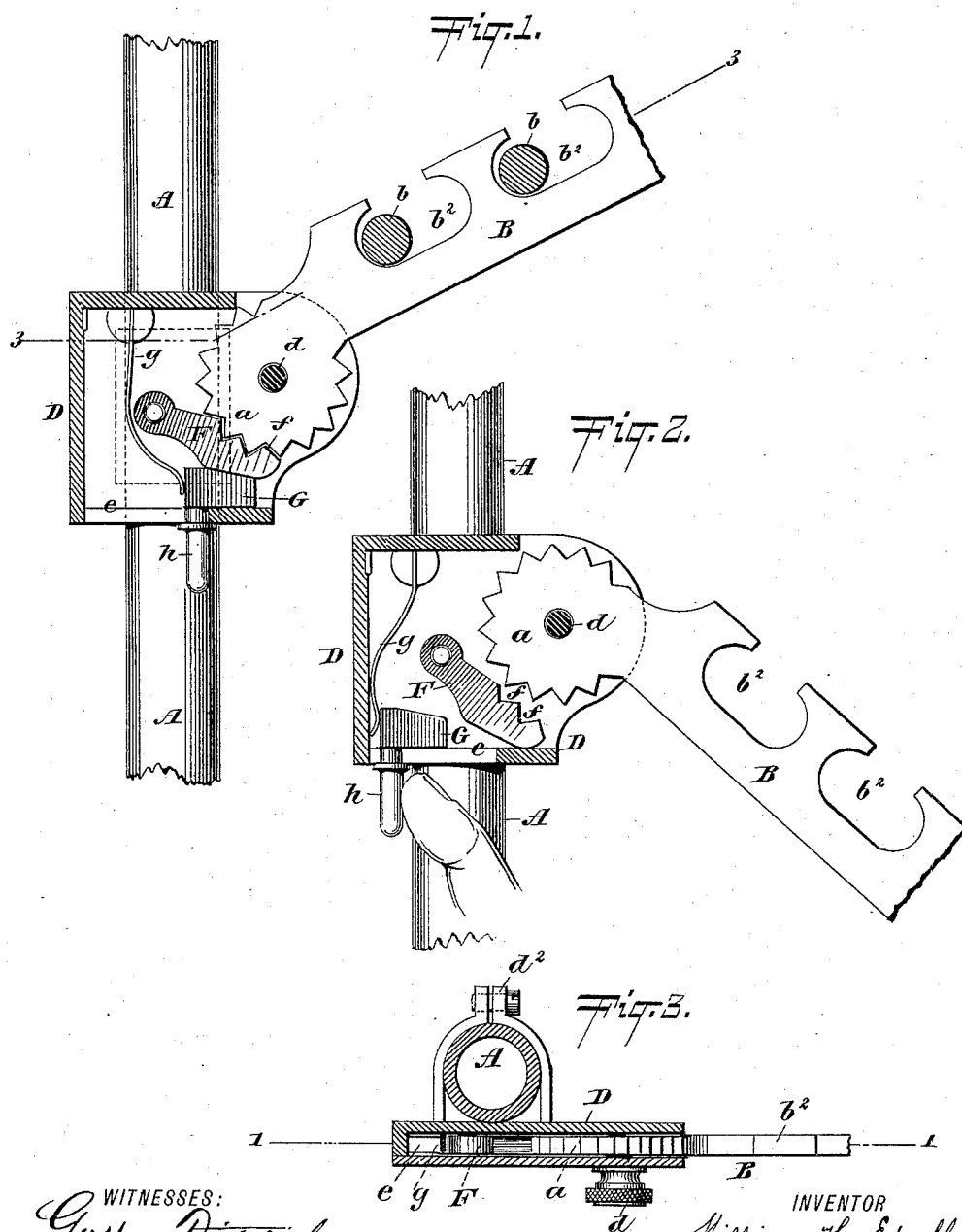


(No Model.)

W. H. EDSALL.
ADJUSTABLE JOINT FOR DISPLAY FRAMES.

No. 473,919.

Patented May 3, 1892.



WITNESSES:
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UNITED STATES PATENT OFFICE.

WILLIAM H. EDSALL, OF BROOKLYN, NEW YORK.

ADJUSTABLE JOINT FOR DISPLAY-FRAMES.

SPECIFICATION forming part of Letters Patent No. 473,919, dated May 3, 1892.

Application filed January 29, 1892. Serial No. 419,626. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. EDSALL, a resident of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Adjustable Joints for Display-Frames and other Purposes, of which the following is a full, clear, and exact description.

My invention relates to certain new and useful improvements in joints for display-frames and other purposes; and it consists in the combination of a ratchet and pawl with a spring-pressed slide for locking said pawl, all as hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view, partly sectional, of the improved joint, showing the arm elevated and held in place by the pawl and slide. Fig. 2 is a similar view of the improved joint, showing the arm depressed and cut of contact with the pawl-supporting mechanism; and Fig. 3 is a horizontal section on the line 3 3, Fig. 1.

A represents one of the uprights or supports of the frame.

B is one of the arms supported thereon and adapted to hold transverse rods *b* in suitable notches *b*². This arm B is pivoted by a pin *d* within a suitable casing D, which in turn is clamped to the upright A by a suitable clamp *c*², or otherwise fastened thereto. The end of the arm B, which is pivoted to and held within the casing D, is furnished with ratchet-teeth *a*. Near this ratchet *a* is pivoted to the casing D a pawl F, having teeth and notches *f f*, adapted to fit against the notches and teeth of the ratchet *a*. This pawl F can be locked by a slide G, which slides within the casing D and which is by preference wedge-shaped, as shown, and has a handle *h*, projecting through a slot *e* in the casing D. This handle *h* can be reached by the finger of the operator, as clearly indicated in Fig. 2. A spring *g* can be applied to the slide G to hold it normally in the locked position shown in Fig. 1.

In operation the casing D is first clamped or otherwise fastened to the upright A at a suitable height. The slide G is then pushed

outward and the pawl F released from contact with the ratchet-teeth *a* on the arm B either by gravity or otherwise, so that the arm B is free to be moved on its pivot. The arm B is then elevated or lowered to the required angle, whereupon the finger is removed from the handle *h* of the slide G, which is then pressed inward by the spring *g*, the wedge or cam shaped slide serving to crowd the teeth *f* of the pawl F into the teeth of the ratchet *a*. The arm B is then firmly locked and held in its proper position and cannot be raised or lowered until the slide G is first pressed outward and the pawl released from contact with the ratchet. For use on display-frames the invention is particularly useful, as it prevents the accidental displacement of the arms B in either direction.

Having now described my invention, what I claim is—

1. The combination of the pivoted arm B, having ratchet-teeth *a*, with the pawl F, and with the slide G, adapted to lock said pawl to said ratchet-teeth, substantially as described.

2. The combination of the pivoted arm B, having ratchet-teeth *a*, with the pawl F, and with the slide G, adapted to lock said pawl to said ratchet-teeth, and with the spring *g*, substantially as described.

3. The combination of the casing D, having slot *e*, with the slide G, having handle *h*, protruding through said slot *e*, and with the pawl F, and pivoted arm B, having ratchet-teeth *a*, all arranged substantially as herein shown and described.

4. The combination of the upright A, with the casing D, carried thereby, and with the arm B, pivoted in said casing and having ratchet-teeth *a*, and with the pawl F and spring-controlled slide G, arranged within said casing D, said slide being adapted to hold said pawl F in contact with the ratchet-teeth of said arm B, substantially as described.

WILLIAM H. EDSALL.

Witnesses:

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