

J. A. COULTAUS.

No. 328,192.

Patented Oct. 13, 1885.
Fig. 1.

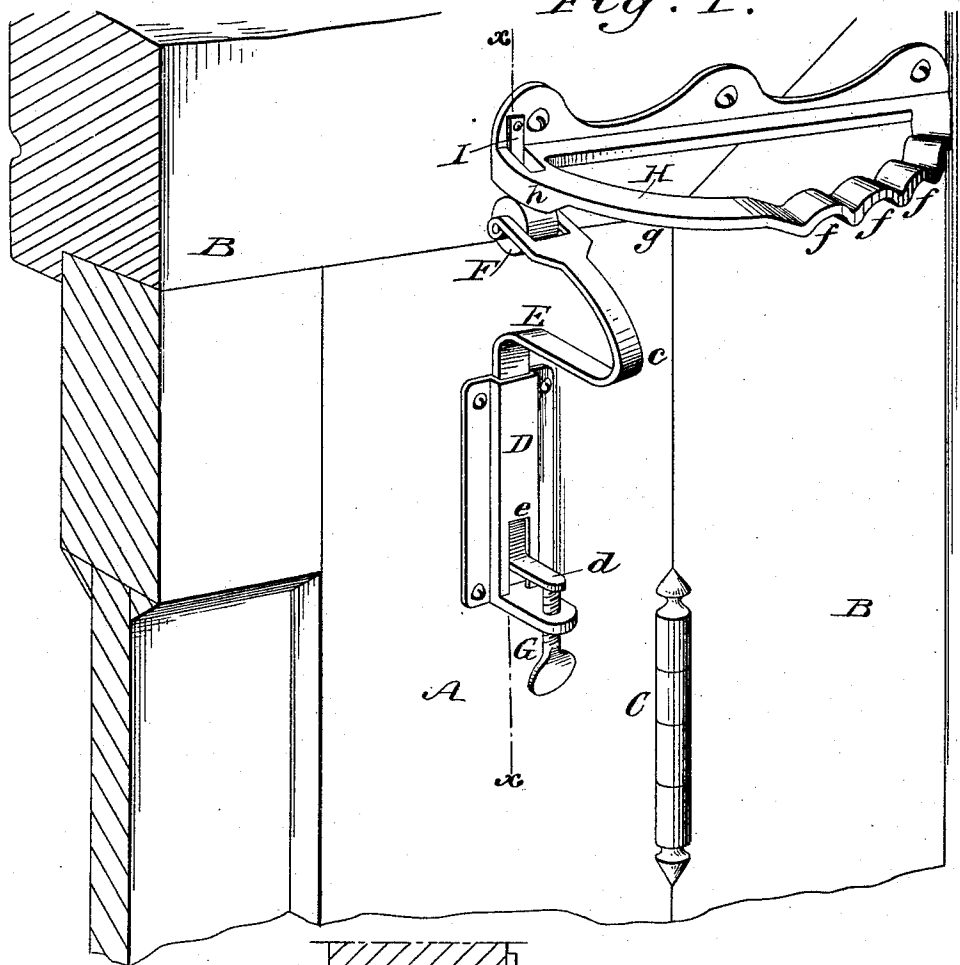
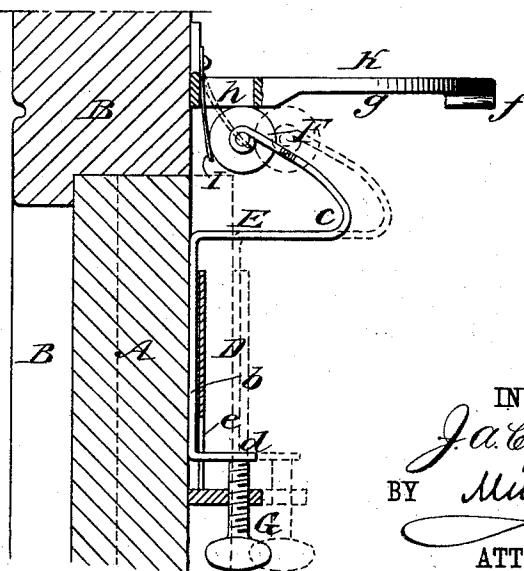


Fig. 2.



Johnelle Reemer
C. Sedgwick

J. A. Courtland
BY *Munroe*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH A. COULTAUS, OF BROOKLYN, ASSIGNOR TO HIMSELF, DANIEL M. ROLLINS, OF BROOKLYN, AND PHILEMON R. DAY, OF NEW YORK, N. Y.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 328,192, dated October 13, 1885.

Application filed February 20, 1885. Serial No. 156,536. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. COULTAUS, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Door-Holders, of which the following is a full, clear, and exact description.

This invention consists in a device of novel construction for holding room and other doors more or less open, and for preventing them from slamming when closing, substantially as hereinafter described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 represents a view in perspective of a door and door-frame in part with my invention applied, and Fig. 2 a vertical section of the same, mainly on the line *x x* in Fig. 1.

A indicates the door; B, the door frame or casing, and C one of the hinges of the door.

Fastened on the back or opening side of the door is an upright socket plate or guard, D, constructed to receive freely and adjustably up or down within it the lower and straight tail end, *b*, of a spring roller-carrier, E, which where it projects above the guard D is of loop form or bent backward or outward and again forward and upward, as shown at *c*, and carries at its upper and forward end a rubber-coated or other roller, F. The lower or tail end portion, *b*, of said spring roller-carrier E is constructed at its bottom with a step-like projection, *d*, which, passing out through a slot, *e*, in the guard D, rests on an adjusting-screw, G, that works through a foot-piece on the guard, and which serves to admit of the spring roller-carrier E being raised or lowered for the double purpose of adjusting the roller F up or down and of varying the tension of the bent or elastic portion *c* of the roller-carrier when the roller is in contact with the surface against which it works.

Secured to and projecting from the upper rail or portion of the door-frame on the hinge side of the door, and corresponding to the circle or sweep of the roller F as the door is opened or closed, so as to form a bearing-surface or track for said roller, is a plate or frame,

H, having any number of corrugations or curved pockets, *f*, one in rear of the other on or in the after part of the projecting portion of the plate or frame H for the roller F, pressed upward by the spring-carrier E, to enter and hold the door more or less open, according to the pocket *f* in which the roller is permitted to rest. The elastic construction of the roller-carrier E, however, the tension of which may be varied by adjusting the screw G, and the gradual curvature of the pocket portions of the frame H, admit of the door being swung either way upon applying sufficient force for the purpose without any more positive lock of the roller in a pocket, *f*, than is necessary to prevent the door from being swung accidentally or by the wind. The invention accordingly provides for holding the door more or less open without restricting it from having its position changed or from opening or closing free from all manipulation of the device which holds the door more or less open. This is important, as it makes the door-holding device an automatic locking and unlocking one, and the same result may be accomplished in substantially the same manner by more or less changing the construction of the device. Thus, instead of the roller-carrier being bent to form a spring, the roller might be pressed upward by a spiral or other spring, which would also make the carrier a spring one, and other changes of details may be made without altering the characteristic feature of my invention.

The portion of the roller track or frame H in advance of the pockets *f* may be made plain or flat, as at *g*, to admit of the free and uninterrupted run of the roller during the early part of the opening and toward the end of the closing movement of the door, and said track or frame be formed with an inclined shouldered projection, *h*, on the under side of its extreme advance end, which will serve, by forcing the roller downward against the pressure of its spring, to hold the door closed or from being too freely opened, and likewise check the door from slamming when being closed. To more effectually, however, prevent the door from slamming, a spring, I, may be attached to the door-casing or its attached frame H for the roller F to strike against as the door is shut to.

This spring and the roller are shown in their respective positions by dotted lines in Fig. 2 as the roller commences to act upon the spring, and by full lines after the spring has been fully acted upon and the door closed.

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

1. The roller track or frame H of the door-holder, having any number of corrugations or pockets, *f*, in the rear portion of its working-surface, and advance plain or flat portion *g*, and a forward projection, *h*, on or from the working-surface of the track, in combination with a roller device and a carrier therefor, with spring for forcing out the roller, essentially as and for the purposes herein set forth.

2. The bent spring roller-carrier E and its attached roller F, in combination with the guard D, within which said carrier is adjustable up or down, the adjusting-screw G, and the recessed fixed track with which the roller is arranged to engage, substantially as specified.

3. In a door-holder, the combination of the spring I with the door frame or casing B, door A, the corrugated fixed track H, and the spring roller-carrier with its attached roller F, substantially as and for the purpose specified.

JOSEPH A. COULTAUS.

Witnesses:

EDGAR TATE,

BENJAMIN F. HOLSKE.