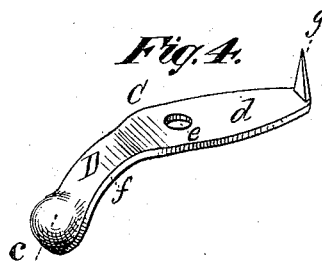
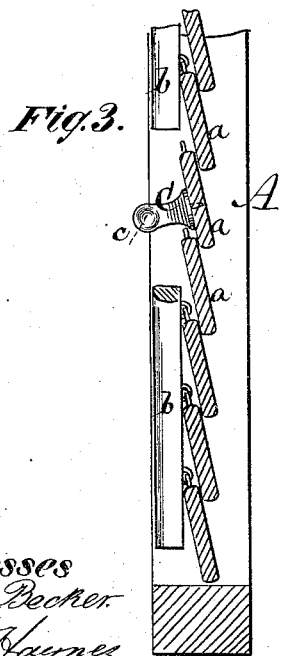
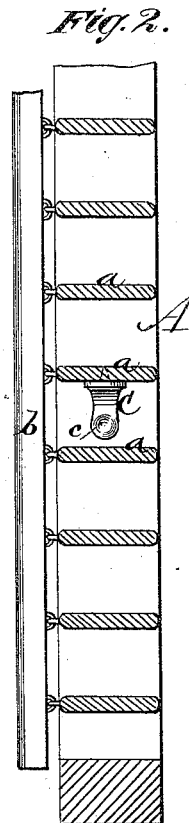
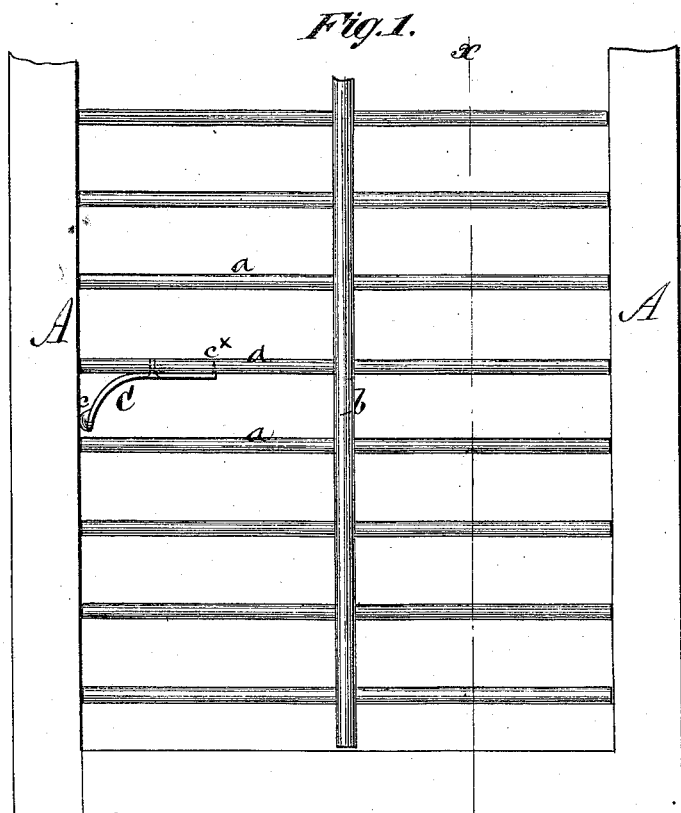


N. HOTZ.
Blind-Stop.

No. 163,073.

Patented May 11, 1875.



Witnesses
John Decker
Fred Harnes

Nicholas Hotz
by his Attorneys
Brown & Allen

UNITED STATES PATENT OFFICE.

NICHOLAS HOTZ, OF GREEN POINT, BROOKLYN, NEW YORK.

IMPROVEMENT IN BLIND-STOPS.

Specification forming part of Letters Patent No. 163,073, dated May 11, 1875; application filed August 22, 1874.

To all whom it may concern:

Be it known that I, NICHOLAS HOTZ, of Green Point, in the city of Brooklyn, county of Kings and State of New York, have invented an Improved Blind-Slat Regulator, of which the following is a specification:

This invention has relation to means for automatically regulating the position of the pivoted slats of window-blinds, whereby the slats may be placed and held in any desired angle of inclination. Heretofore blind-regulators of this character have been composed simply of a flat strip of metal bent to form a spring, and secured to the side-piece of the window-blind frame.

This form of regulator, after having been in use for any length of time, has proven wholly inoperative and worthless on account of the continued pressure and wear against the face of the plate from the end of the blind-slat, flattening the plate and rendering its powers as a spring and fastening valueless.

My invention is designed to remedy, as far as possible, this defect, and produce a regulator capable of being easily stamped or struck up from a single piece of metal, simple in its construction, and one that can be readily secured to any blind-slat without the usual fitting or adjusting, and remain perfect in its operation; and my improvement consists in the construction of the automatic spring-regulator having the flat metallic plate, one end of which is narrowed sufficiently to form a yielding plate or spring, and curved upward, terminating in a boss, the other end provided with a fastening-spur bent at right angles thereto, and an intermediate orifice adapted to receive a screw for the purpose of securing the regulator to one of the slats of the blind.

In the accompanying drawings, Figure 1 is a face view of a blind with my regulator attached. Fig. 2 is a transverse vertical section taken in the line *x x* of Fig. 1. Fig. 3 is a transverse vertical section, taken in the same line, but showing the slats in a different position. Fig. 4 is a perspective view of the elastic plate.

A represents the lower panel of a window-

blind provided with pivoted slats *a*, connected by a bar, *b*, for operating them.

To the upper face of one of the slats is secured or fastened the regulator C, which consists in part of a flat metal plate, *d*. This plate *d* is provided with an orifice, *e*, for the reception of a screw in fastening the plate to the slat of the blind. One end of this plate is curved upward, forming a neck, and which is made narrower than the base-plate *d*, by being cut away at its sides, as seen at *f*, for the purpose of giving it a sufficient degree of elasticity as a yielding plate or spring, so that it may not bear with too great a pressure against the side piece of the window-blind frame when sliding thereon. Upon the end of this spring-plate D of the regulator is formed a boss or enlargement, *c*, projecting from the under side. This boss or enlargement *c*, aided by the narrower yielding spring-plate D, allows the same to pass over any irregularities in the side piece of the frame of the blind, and prevent it catching in or tearing the wood. At the other end of the plate *d*, the metal is brought to a point and turned over during the process of stamping, so as to form a locking-spur, *g*. Before the regulator is screwed on, this spur *g* is pressed into the wood, and acts as a lock to prevent the turning of the regulator upon the fastening-screw, if at any time it should become loose by wear or other causes.

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

As a new article of manufacture, the automatic spring-regulator A, stamped or struck up from a single piece of metal, having at one end the locking-spur *g*, bent at right angles thereto, and the upwardly-curved yielding spring-plate D, terminating in the boss or enlargement *c*, with an intermediate orifice, *e*, adapted to receive a fastening-screw, for the purpose specified.

NICHOLAS HOTZ.

Witnesses:

BENJAMIN W. HOFFMAN,
FRED HAYNES.