(No Model.)

H. H. HILGEN.

Rolling Blind.

No. 237,864. **Patented Feb. 15, 1881.**

Fig: 1.

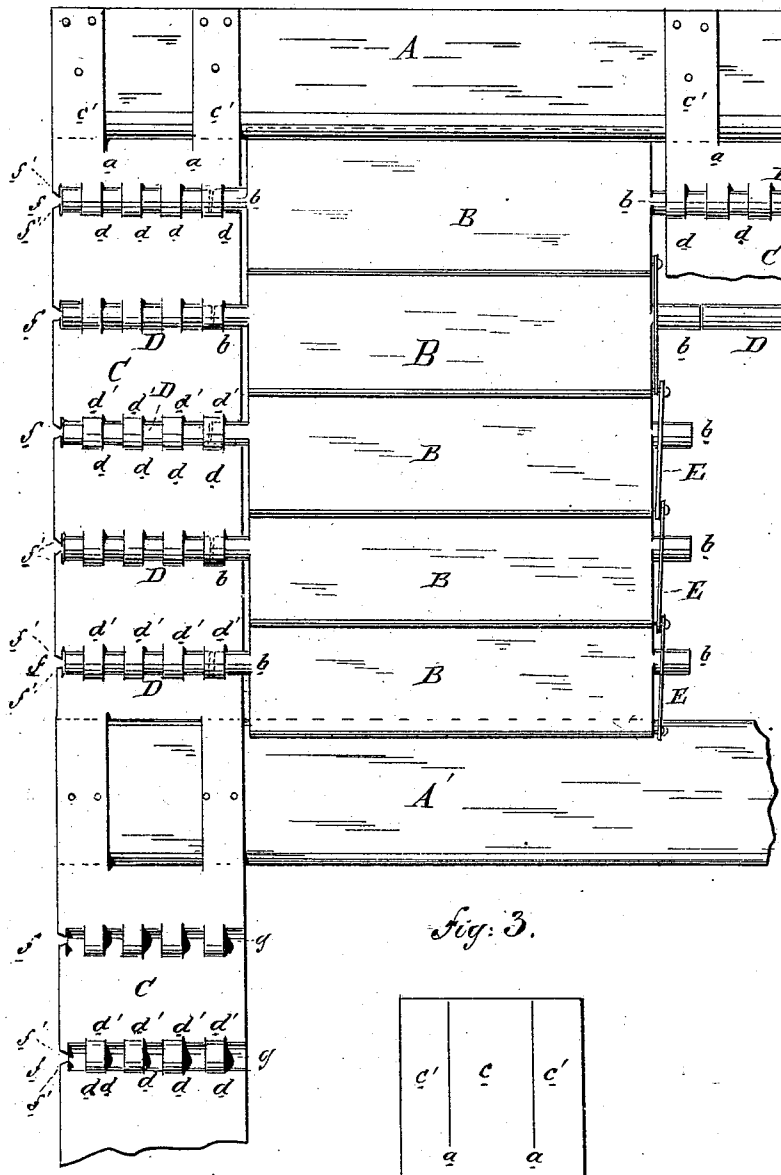


Fig: 2.

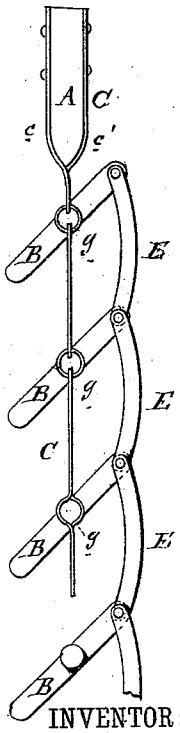
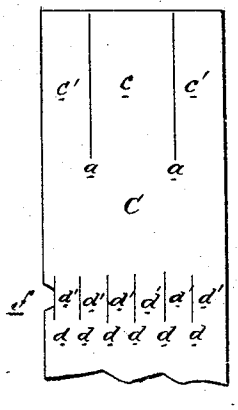


Fig: 3.



WITNESSES:

Chas. Neal

C. Sedgwick

INVENTOR:

H. H. Hilgen

BY Munn & Co

ATTORNEYS.

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

UNITED STATES PATENT OFFICE.

HENRY H. HILGEN, OF NEW YORK, N. Y.

ROLLING BLIND.

SPECIFICATION forming part of Letters Patent No. 237,864, dated February 15, 1881.

Application filed April 6, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. HILGEN, of the city, county, and State of New York, have invented a new and Improved Rolling Blind, of which the following is a specification.

The object of this invention is to provide a simple and durable rolling window-blind having adjustable slats.

The invention consists of metallic stile-bands, made of single strips of sheet metal, for holding the tenons of the slats and the ends of the blind-rails; and it consists, further, of pins set horizontally in the sockets of the stile-bands to prevent their being flattened or tightened over the slat-tenons.

Figure 1 is a front elevation of the device with parts broken away. Fig. 2 is a side elevation of a portion of the device. Fig. 3 is a plan of a section of the stile-band, showing the manner in which it is prepared for application to the blind.

Similar letters of reference indicate corresponding parts.

In the drawings, A A′ represent the upper and central rails respectively; B B, the slats, provided with tenons *b b*. The stile-bands C C are simple strips of sheet metal possessing sufficient flexibility to be easily rolled up, and these strips are prepared for use by cutting longitudinal slits *a a* in the upper intermediate and lower parts, forming on the ends and intermediately three bands, which are attached respectively to the upper and central rails, A A′, of the blind and the lower rail (not shown) by bending the central band, *c*, backward and the two side bands, *c′ c′*, slightly forward and inserting the rail between the said bands, as shown, and securing them with pins, nails, or other convenient device. At certain intervals apart, to correspond with the width of the slats B B, rows of short slits *d d* also are made across the face of the stile-bands C C, and pins D D are interlaced through these slits *d d*, as shown, to hold the intervening bands *d′ d′* of metal apart, and thus form sockets *g* for the insertion of the slat-tenons *b b*, and these pins D D, being of greater diameter than the tenons *b b*, keep these sockets *g* fully open and prevent the bands *d′ d′* from stretching and closing down upon the slat-tenons *b b*, to interfere with their easy turning therein. The outer edges of the side stiles of the blind are notched opposite each tenon-socket, as shown at *f f*, and the points *f′ f′* of the notches engage against the outer ends of the pins D D to hold said pins in place.

The central rail, A′, is inserted or interlaced through long slits in the stile-bands C C, as shown, and secured by pins or other device.

The metallic links E E have their ends overlapping each other and pivoted to the ends of the slats B B, as shown. These links E E are curved upward, so as not to interfere with the tenons of the slats B B, and by means of these links E E the slats in each section can be simultaneously opened or closed at will.

These blinds are designed to be attached to spring or other rollers, and with metallic stile-bands of proper flexibility it is found that they will readily roll and unroll, while, being constructed of wood and metal, the blind possesses strength and durability, and can be furnished at low cost.

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

1. The combination, with the slat-tenons and rail ends in a rolling blind, of the flexible stile-bands E, made of single strips of sheet metal, as shown and described.

2. The combination, with bands C, having slits *d*, intervening bands *d′*, and sockets *g*, of the slats having tenons *b* and the pins D, of greater diameter than said tenons, as and for the purpose specified.

3. In a roller-blind, the combination, with the pins D D, of the notch-points *f′ f′*, formed on the edges of the stile-bands C C, substantially as herein shown and described, whereby the said pins are held in position in the sockets of said bands, as set forth.

HENRY H. HILGEN.

Witnesses:
I. I. STORER,
JAMES H. HUNTER.