

(No Model.)

H. BECK.  
WIRE NETTING.

No. 451,315.

Patented Apr. 28, 1891.

fig. 1.

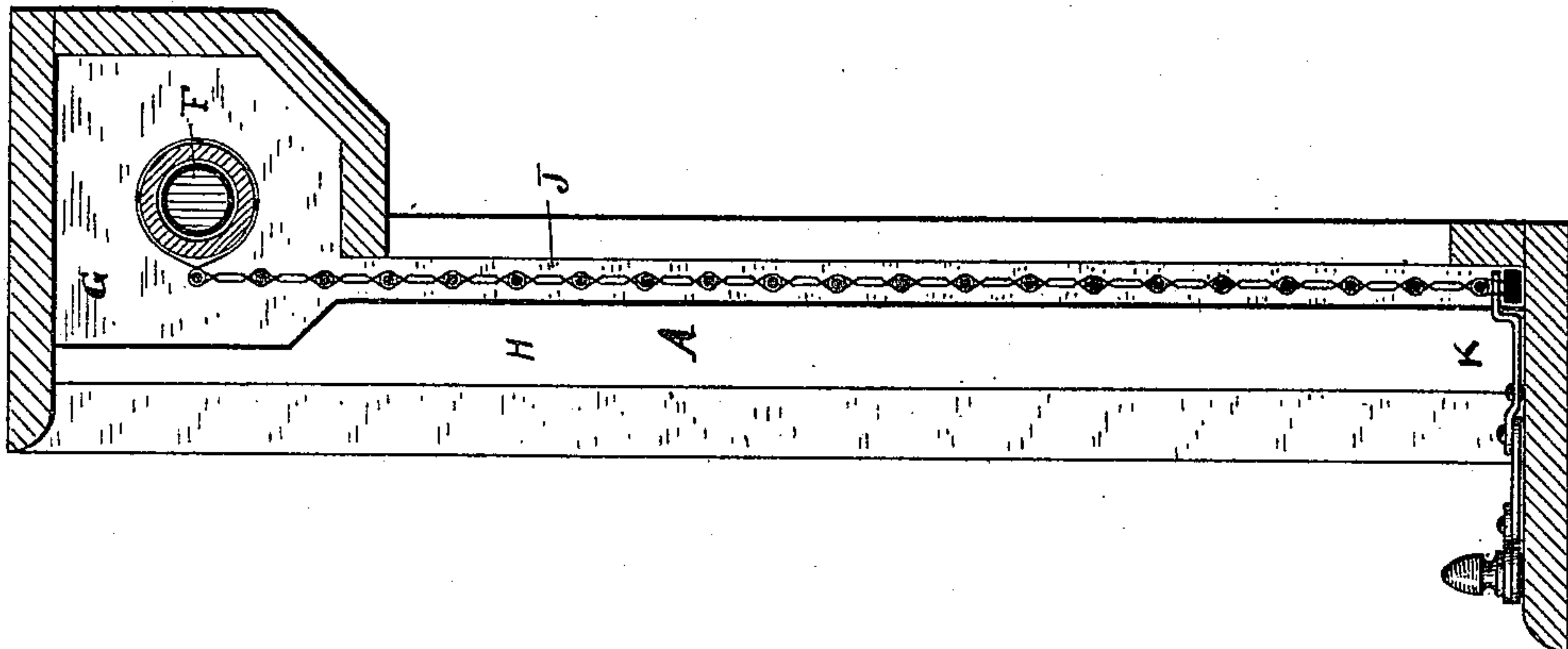
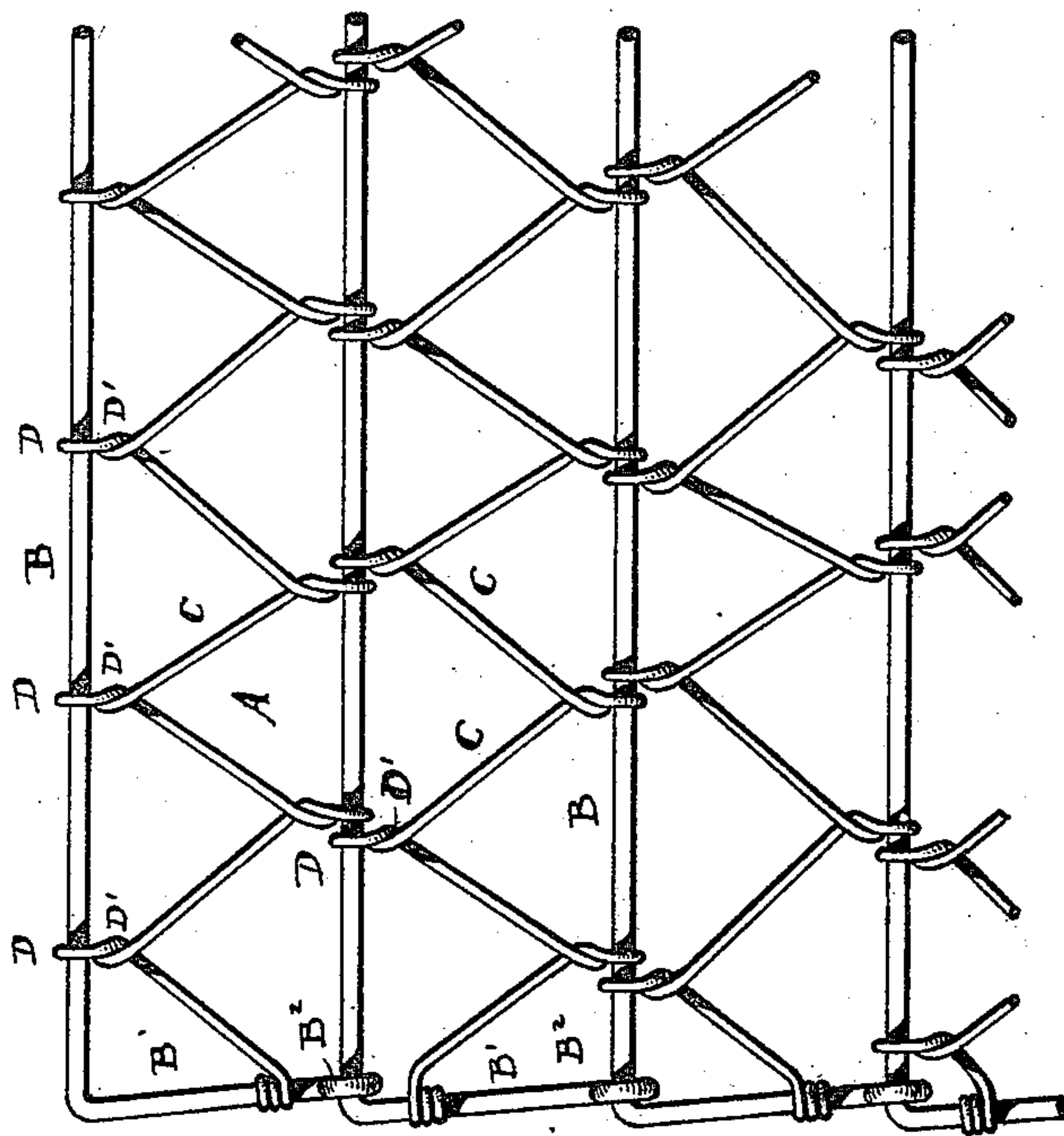


fig. 2.



WITNESSES:

*for W. Reinbaum.*  
*Reinbaum*

fig. 3.



INVENTOR

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# UNITED STATES PATENT OFFICE.

HYMAN BECK, OF NEW YORK, N. Y.

## WIRE-NETTING.

SPECIFICATION forming part of Letters Patent No. 451,315, dated April 28, 1891.

Application filed June 26, 1890. Serial No. 356,771. (No model.)

*To all whom it may concern:*

Be it known that I, HYMAN BECK, of the city, county, and State of New York, a citizen of the United States, have invented certain new and useful Improvements in Pliable Wire-Nettings, of which the following is a specification.

This invention relates to improvements in wire-netting; and the object of my invention is to provide a new and improved wire-netting which is pliable and can be conveniently rolled upon a spring-roller or analogous device, and which netting is adapted for use as a window-guard and other similar purposes.

The invention consists in the construction and combination of parts and details, as will be fully described hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical transverse sectional view of a window-casing provided with my improved wire-netting and a roller upon which the netting can be wound. Fig. 2 is an enlarged detail view of my improved netting; and Fig. 3 is a vertical transverse sectional view on the line 3 3, Fig. 2.

Similar letters of reference indicate corresponding parts.

The wire-netting A is formed of a series of longitudinal wires B, arranged parallel and a short distance from each other, the ends of the wires B being bent down at right angles and the ends of the bent-down parts B' being shaped to form eyes B<sup>2</sup>, through which the next lower wire B passes, and so on. The wires B thus form the skeleton or frame for the netting, and as each wire B passes through the eyes B<sup>2</sup> formed on the bent-down end posts B' of the wire B next above, this skeleton or frame is flexible and pliable and can be conveniently rolled upon a roller. Each two adjacent wires B are connected by a lighter wire C, which is arranged on a zigzag line and alternately coiled or passed around the two wires B, to which it is secured in such a manner as to form the eyes D, through which the wires B pass, said wires B having a half-twist

D' adjacent to each eye D. The wires C only connect two adjacent wires B and never extend beyond them, thus in no wise interfering with the flexibility or pliability of the netting.

The netting made as described is secured to a spring-roller F, suitably arranged in a box G at the top of the window-casing H, having the grooves J in its side bars for guiding the said edges of the netting in its vertical movement. A latch K is provided for locking the netting in place when it is lowered. When said latch K is withdrawn, the spring-roller G automatically winds up the netting A.

The advantages of my improved netting are that it can be made very strong and durable; the wires B can be made comparatively heavy and strong, as they form the main frame of the netting, and the wires C, which only unite the adjacent wire B, can be made very light.

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

1. In a wire-netting, the combination, with the main wires B, having their ends bent and eyes formed on the ends of the bent parts, each wire passing through the eyes of the adjacent wire B, of wires C, fastened to two adjacent lines B, substantially as set forth.

2. In a wire-netting, the combination, with the wires B, having their ends bent and eyes formed on the ends of the bent parts, each wire B passing through the eyes on the bent ends of the adjacent wire B, of wires C, extending in a zigzag line between two adjacent wires B, to which they are fastened, the wires C being bent to form the eyes D, through which the wires B pass, and half-twists D' adjacent to the eyes D, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

HYMAN BECK.

Witnesses:

OSCAR P. GUNZ,  
W. REIMHERR.