

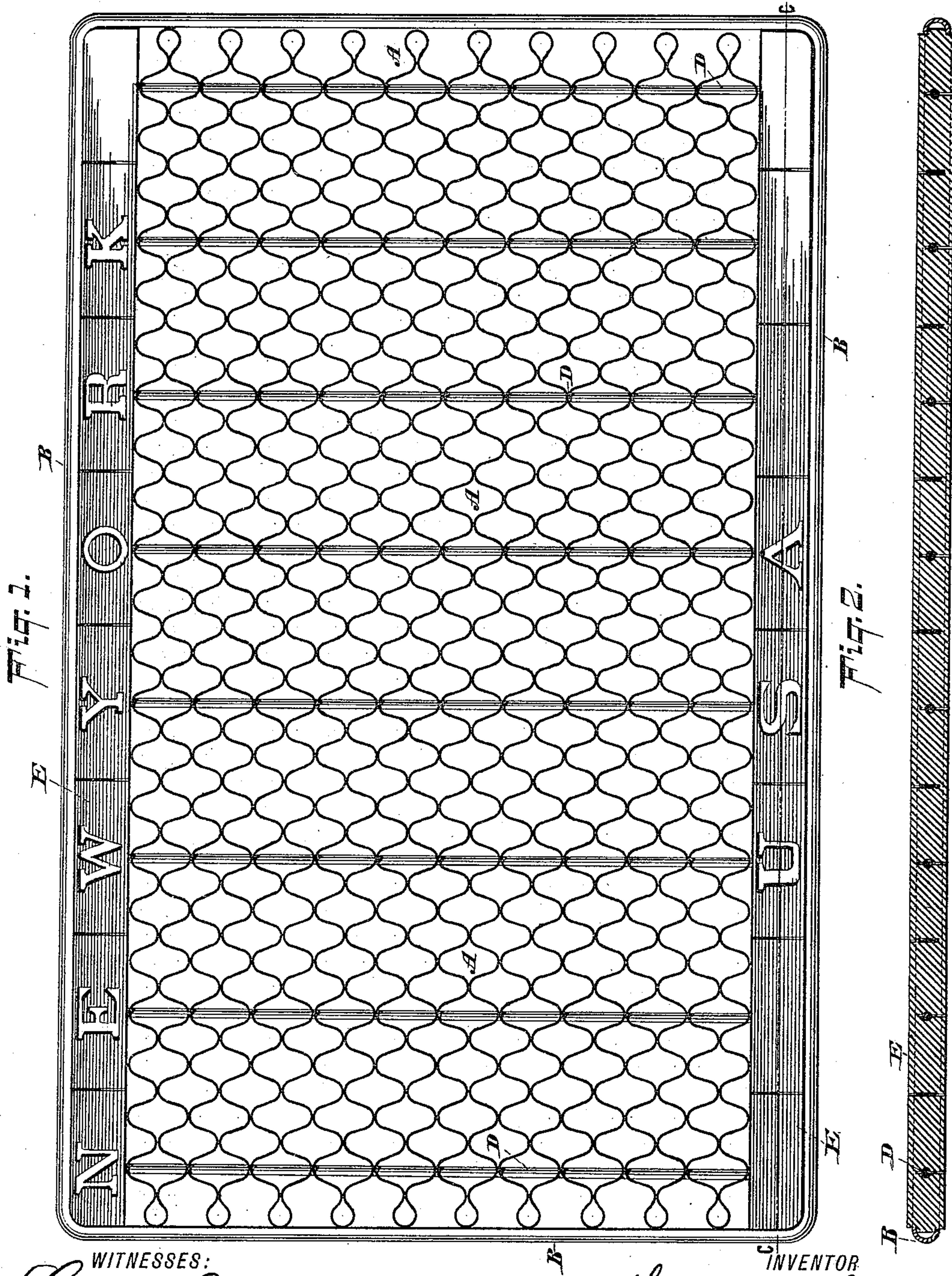
(No Model.)

3 Sheets—Sheet 1.

W. C. SPELMAN.
METALLIC MAT.

No. 438,648.

Patented Oct. 21, 1890.



WITNESSES:

Guertel Dietrich
Carl Dietrich

INVENTOR

William C. Spelman

BY *Briesen & Knaut*

ATTORNEYS.

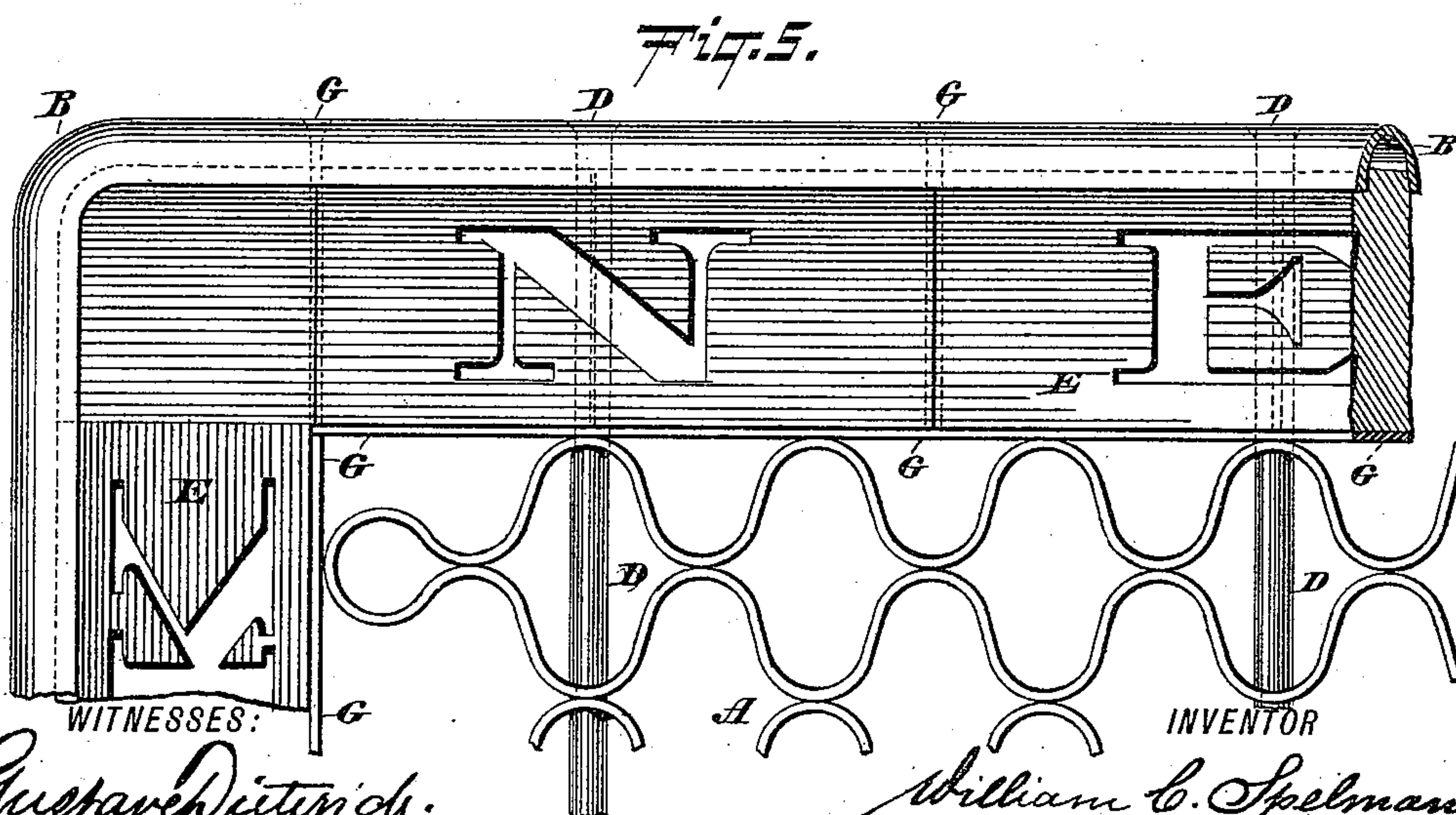
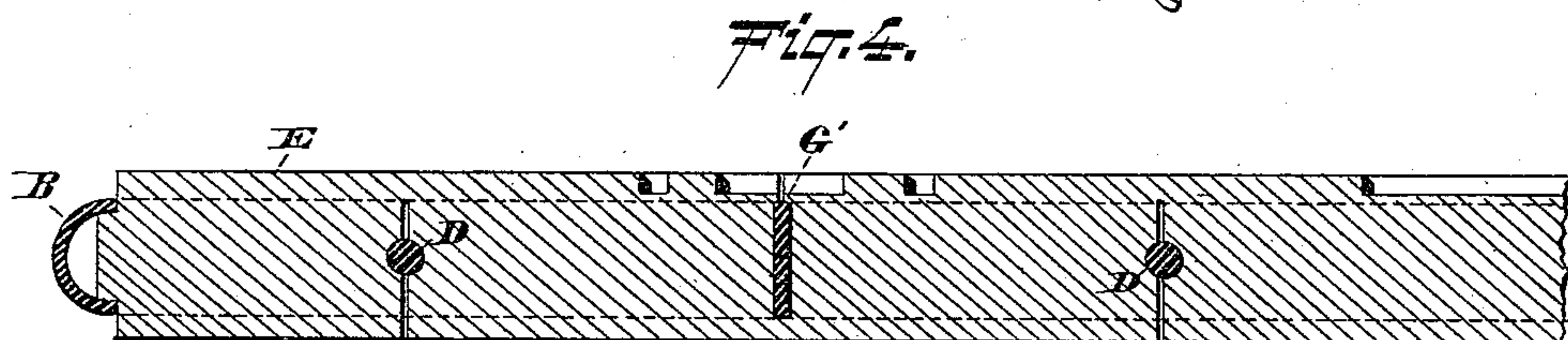
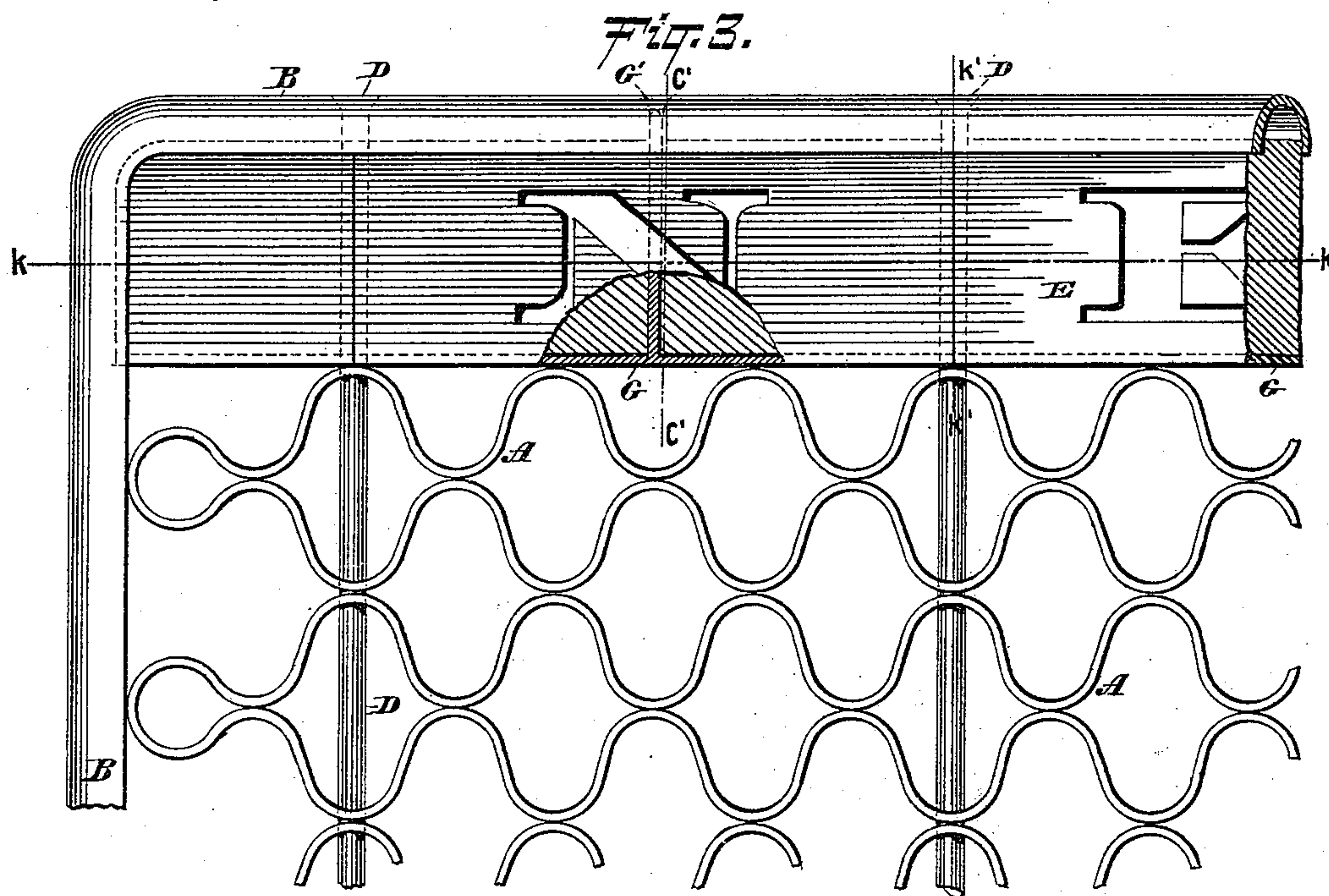
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Fig. 5.

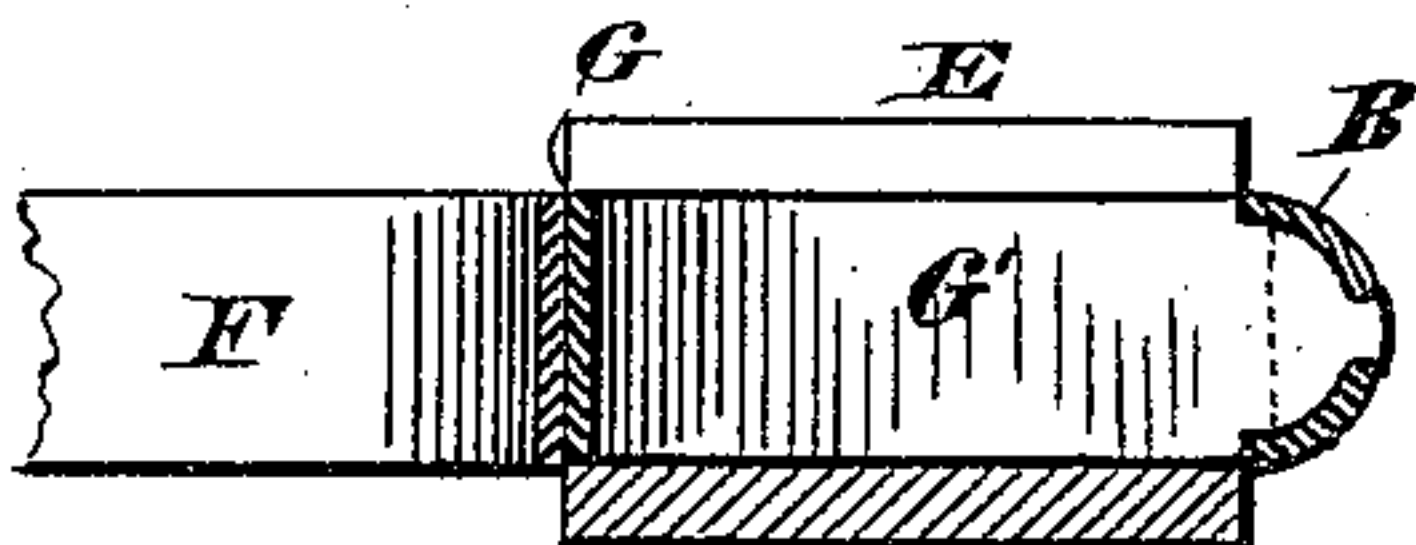


Fig. 9.

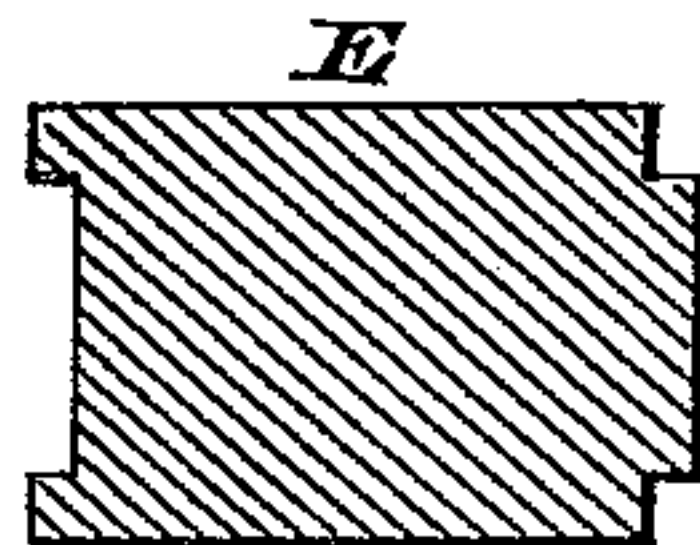


Fig. 10.

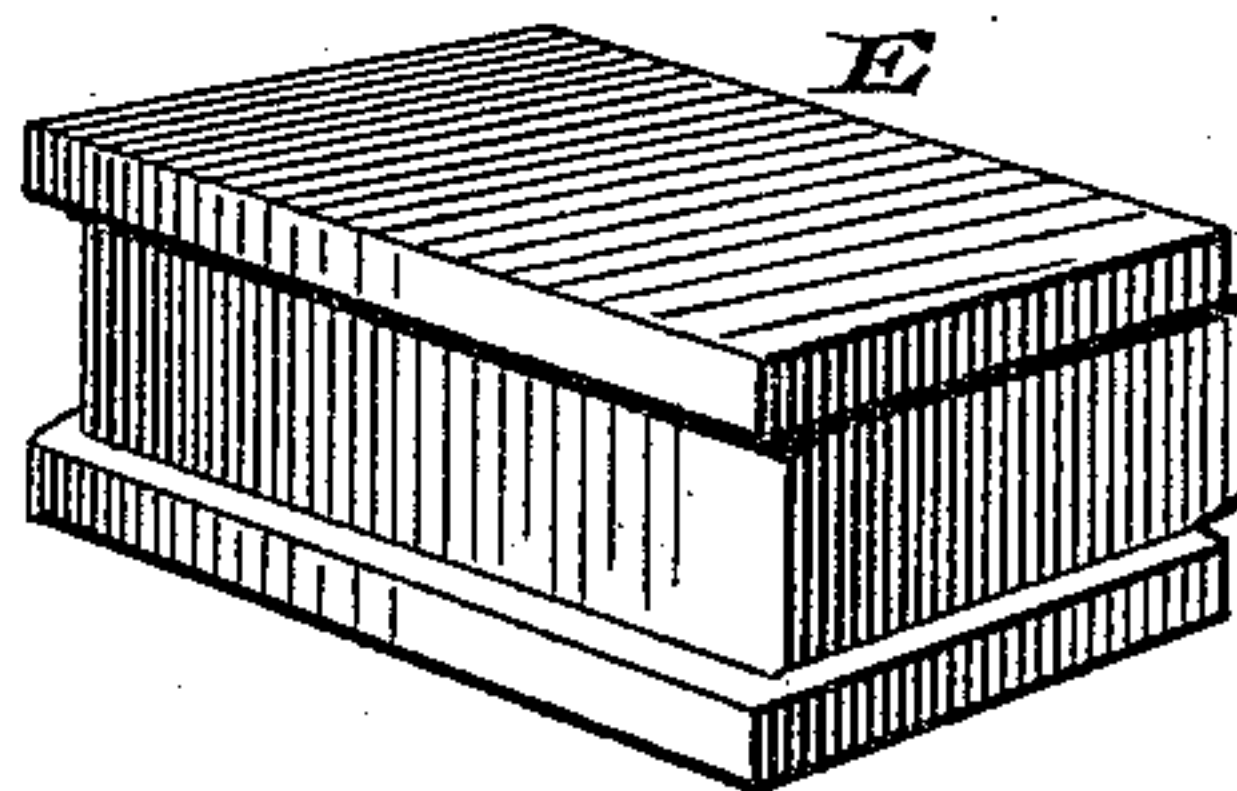


Fig. 7.

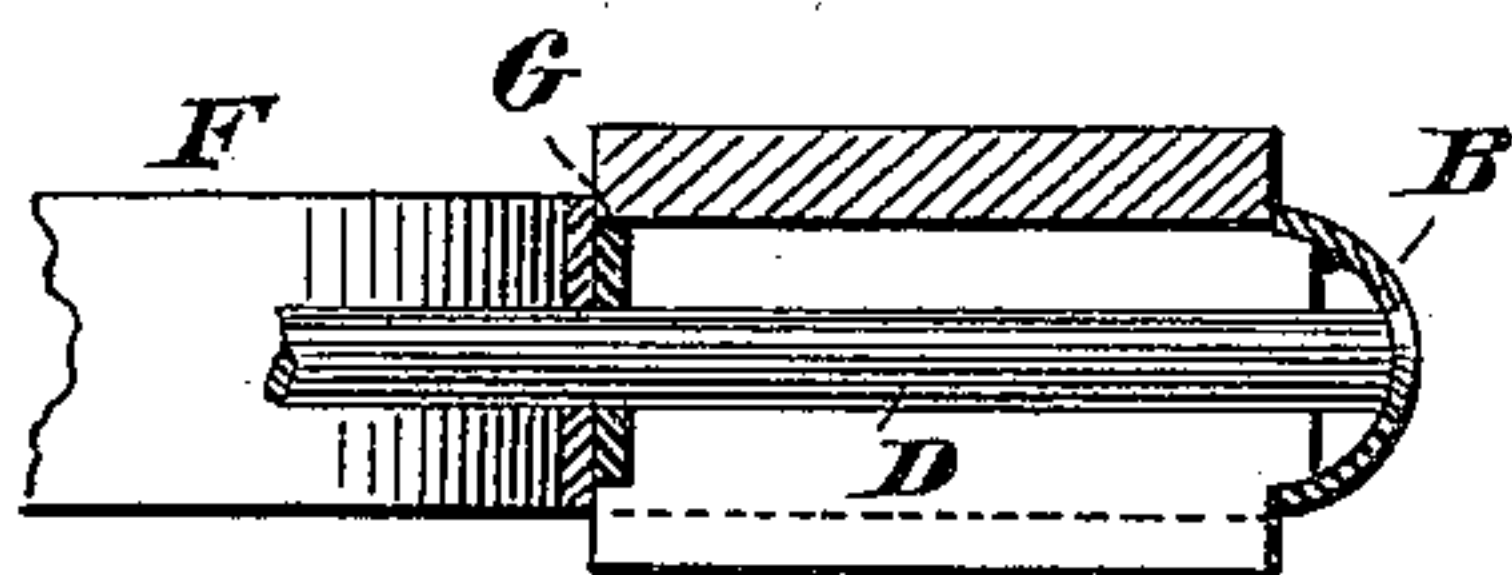


Fig. 11.

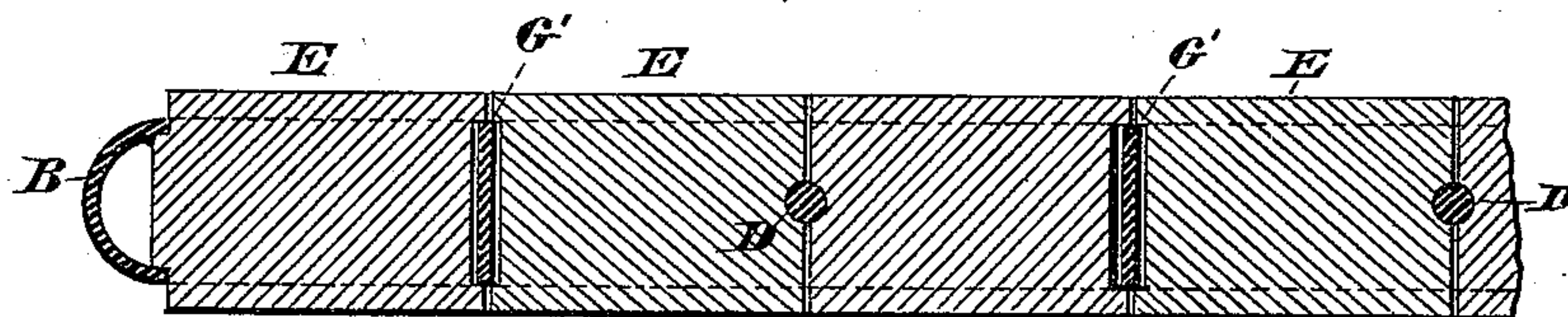
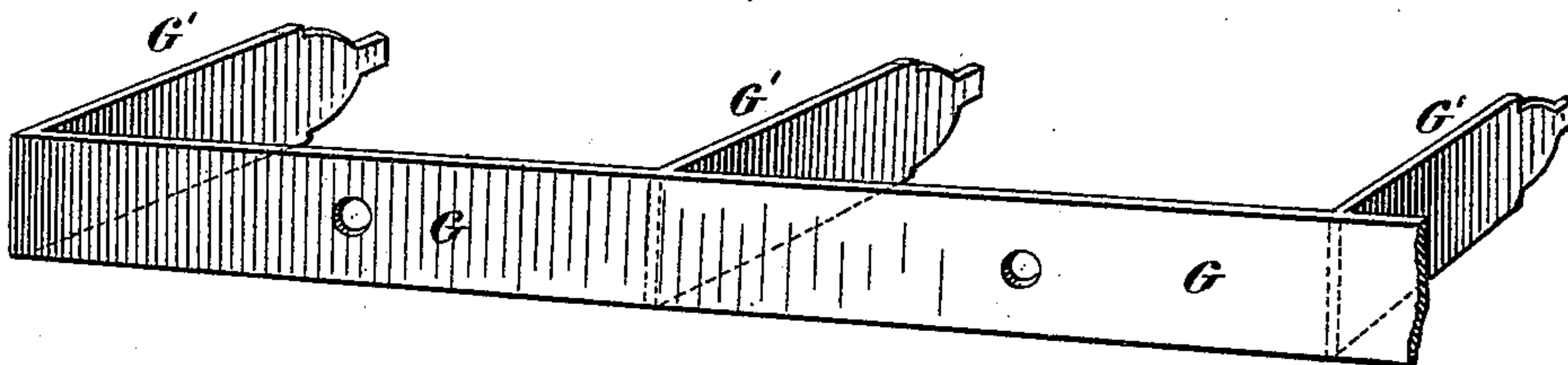


Fig. 8.



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UNITED STATES PATENT OFFICE.

WILLIAM C. SPELMAN, OF NEW YORK, N. Y., ASSIGNOR TO THE NEW YORK
STEEL MAT COMPANY, OF SAME PLACE.

METALLIC MAT.

SPECIFICATION forming part of Letters Patent No. 438,648, dated October 21, 1890.

Application filed February 18, 1890. Serial No. 340,903. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. SPELMAN, a citizen of the United States, residing in the city of New York, county, and State of New York, have invented a certain new and useful Improvement in Metallic Mats, of which the following is a specification.

My invention relates to that class of cellular mats known as "metallic" or "Rochester" mats, and has for its object the insertion of pieces of rubber in the cells of said mat or around the edge or edges, whereby the shoes may be additionally cleaned after being scraped upon the metallic surface of the mat. My invention is illustrated in the accompanying drawings, which form part of the specification, in which—

Figure 1 is a plan view of my improved mat; Fig. 2, a cross-section of the same, taken through the line *c c*, Fig. 1; Fig. 3, a detail view of my improved mat, showing the rubber border inserted at one end of the mat; Fig. 4, a cross-section of the same, through the line *k k*, Fig. 3. Fig. 5 is a detail view of my improved mat, showing the rubber border inserted at both ends of the mat. Fig. 6 is a cross-section on the line *c' c'*, Fig. 3; Fig. 7, a cross-section on the line *k' k'*, Fig. 3. Fig. 8 is a view of a detachable frame, which may be used to secure the rubber border between the corrugated or scraping surface of the mat and the binding-edge. Fig. 9 is a cross-section of a single block of rubber, which illustrates one form of accomplishing my invention; Fig. 10, a perspective view of the same, and Fig. 11, a longitudinal section of a series of these single blocks placed in position to form the border.

Similar letters throughout the several views indicate similar parts.

A represents the metallic strips composing the cellular or scraping surface of the mat; B, the metallic rim surrounding the mat.

D D are rods running across the mat, securing the scraping-strips to the rim B.

E is the rubber filling, which may be a continuous band of rubber, as shown in Fig. 1, cut half through at certain points to render it more flexible and to adapt it to be inserted in cells of the mat and to be retained therein; or else the filling may be of single blocks, as

shown in Figs. 9, 10, and 11, which are grooved at the edges to receive and conceal between them the metal bars of the mat proper that hold said blocks in place, as in Fig. 11.

G is a frame or partition of metal, with projecting arms *G'*, which may be placed along the sides of the mat within the rim and held in position by the cells of the mat and by riveting the arms *G' G'* to the rim B. This frame or partition forms recesses, into which the rubber filling may be placed.

The ordinary Rochester or metallic mat, as shown in Patents Nos. 377,580 and 387,978, is composed of a number of metallic strips corrugated or otherwise formed to present a cellular appearance, and these strips are fastened or secured to the rim B by the transverse rods or bars D D, passing through the strips and riveted to the said rim.

In my improved mat I insert in the cells of the mat, by preference near the rim B, blocks of rubber, thus forming a combined scraping and elastic surface.

The advantage of thus having a rubber filling in the mat is that the surplus dirt which remains on the feet after being scraped on the metallic strips will be removed by the rubber, as will also moisture and slush should the day be rainy.

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

1. The combination, in a metallic mat having an outer continuous rim B and metallic strips or filling A, of a separate inner partition G, furnished with projecting arms *G'*, and of the filling-blocks E of india-rubber, inclosing said arms *G'* and presenting an even surface to the foot, substantially as and for the purposes set forth.

2. The combination, with a metallic mat consisting of a continuous outer rim and inner filling A, of a partition G, having projecting arms secured to the rim of the mat and inclosed within the rubber blocks E, the said partition G resting against the filling A, as and for the purposes specified.

WILLIAM C. SPELMAN.

Witnesses:

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