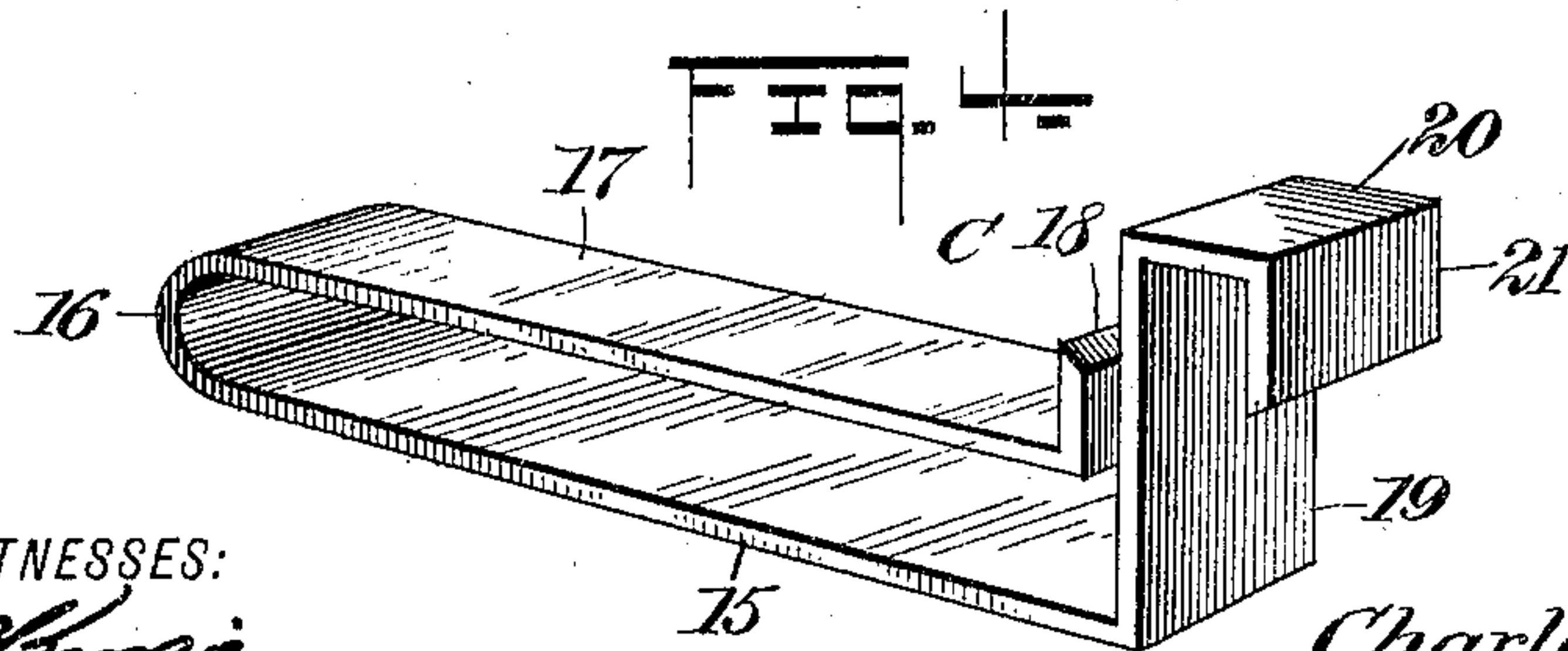
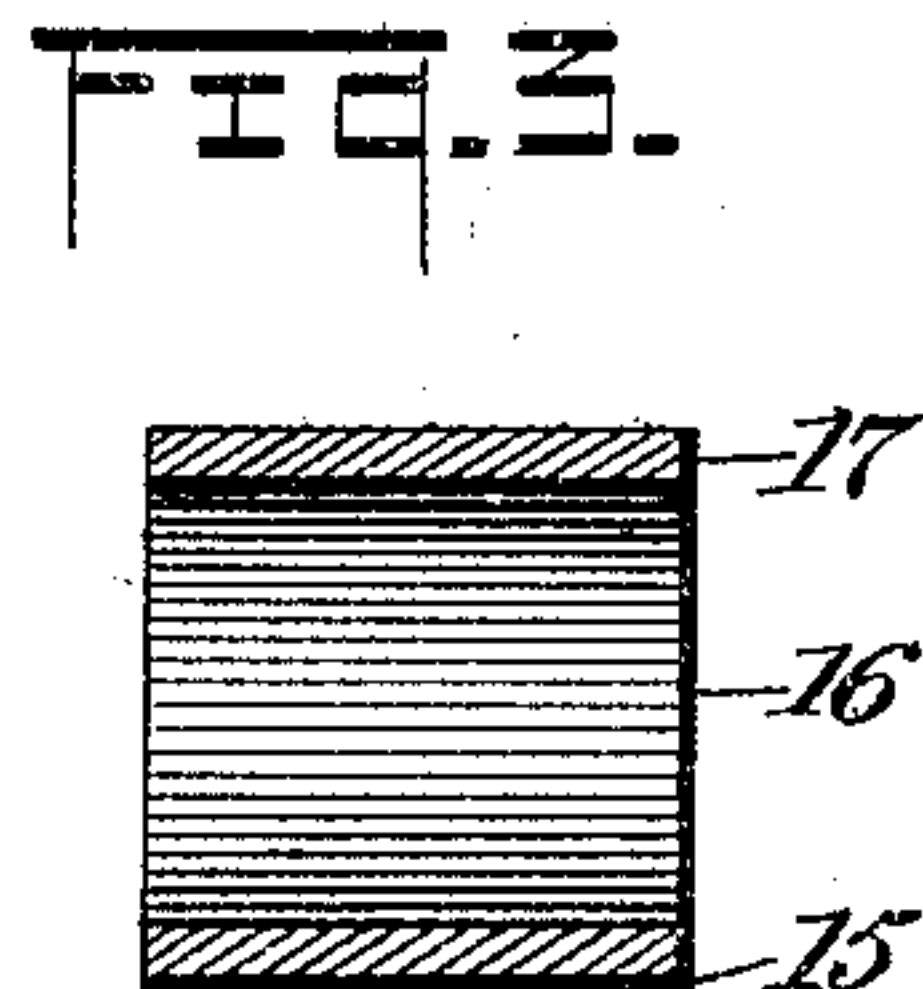
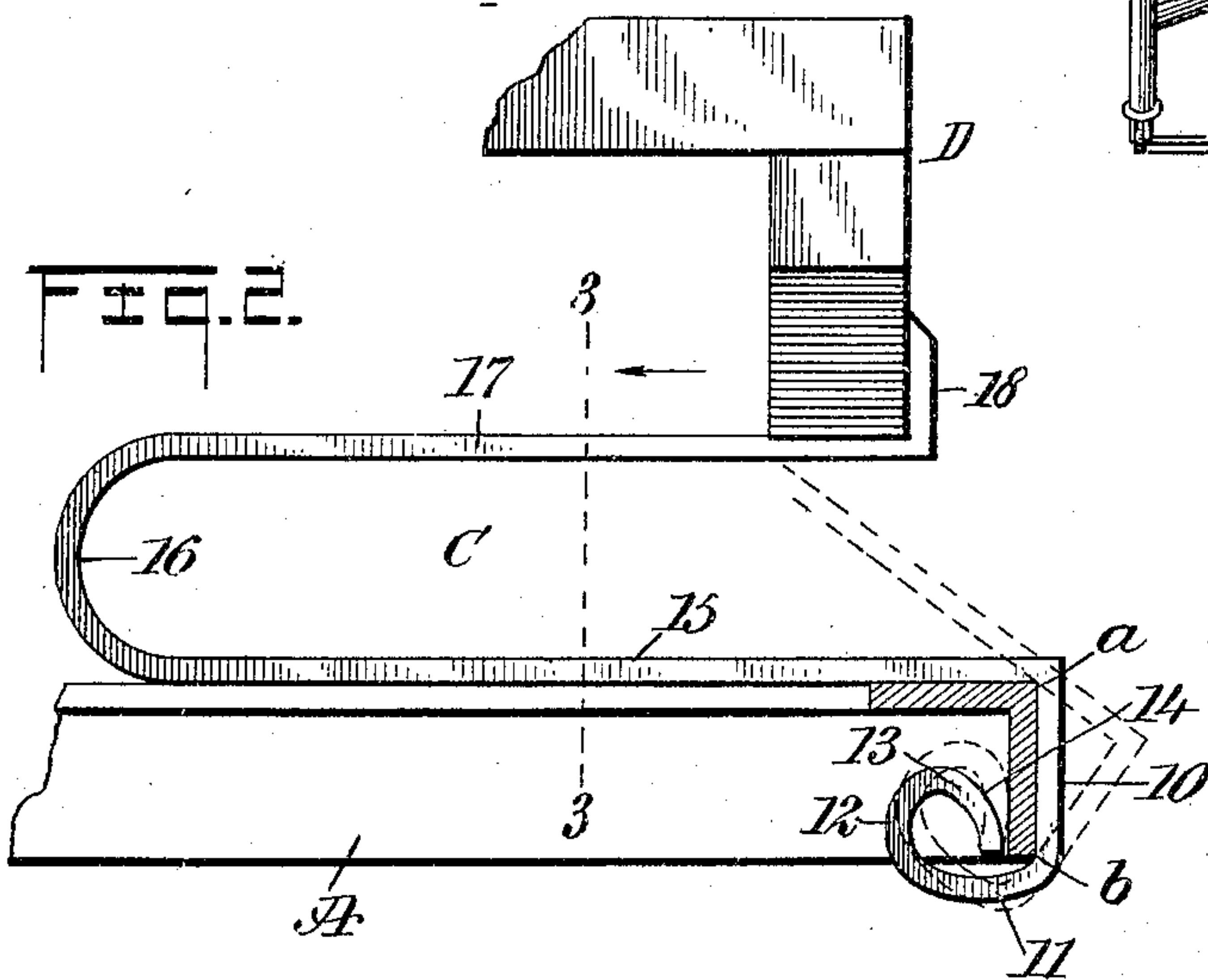
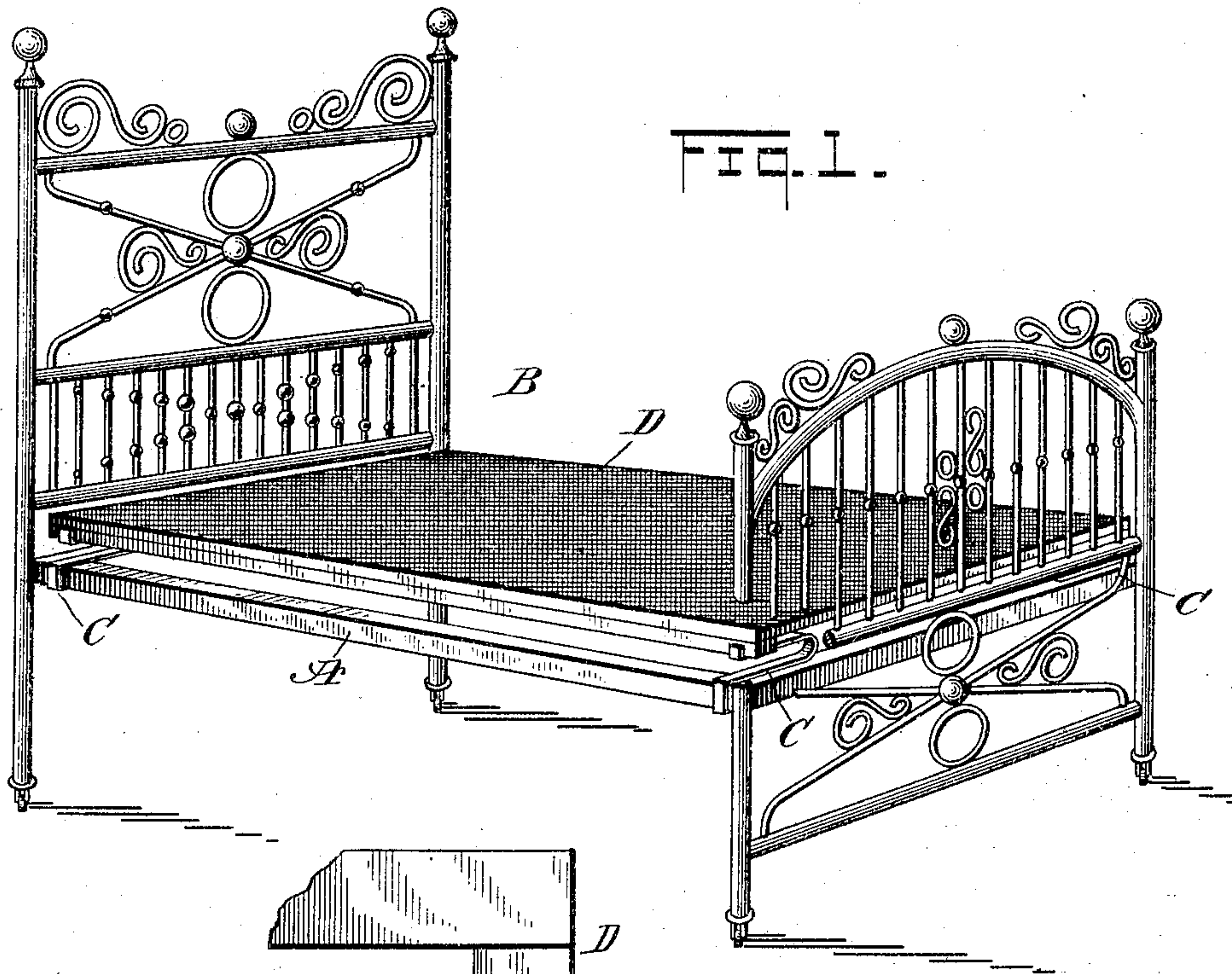


No. 794,299.

PATENTED JULY 11, 1905.

C. L. HARRELL.
SUPPORT FOR BED BOTTOMS.
APPLICATION FILED APR. 16, 1904.



WITNESSES:
[Signature]
[Signature]

INVENTOR
Charles L. Harrell
BY *[Signature]*
ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES L. HARRELL, OF NEW YORK, N. Y.

SUPPORT FOR BED-BOTTOMS.

SPECIFICATION forming part of Letters Patent No. 794,299, dated July 11, 1905.

Application filed April 16, 1904. Serial No. 203,419.

To all whom it may concern:

Be it known that I, CHARLES L. HARRELL, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Support for Bed-Bottoms, of which the following is a full, clear, and exact description.

My invention relates to supports for springs or other bed-bottoms. Its principal objects are to provide such a device which may be readily attached and which will furnish a general yield or spring effect to the entire bottom structure, even at the ordinarily-rigid edges.

It consists in the features and combinations hereinafter described and claimed.

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

Figure 1 is a perspective view of a bed to which one embodiment of my invention is applied, parts being broken away. Fig. 2 is a side elevation of the support in place upon a rail of a metal bed. Fig. 3 is a transverse section on the line 3 3 of Fig. 2, and Fig. 4 is a perspective view of another form of my invention.

A designates a rail of the bed B, here shown as of the metal type. To this rail is applied my improved support C, which carries the bed-bottom, here shown as a woven-wire spring D. In this support, which is formed of metal, and preferably spring-steel, 10 indicates a normally vertical member, which extends along the outer side of the bed-rail. At the lower end of this vertical portion is a hooked or engaging portion, which consists, first, of a substantially horizontal element 11, projecting beneath the rail, then an upwardly-bent portion 12, and finally extends back at 13 toward the rail and is curved to furnish a contact-face 14, the particular form of which will be later described.

From the upper end of the engaging portion above the bed-rail is an extension 15, curved at its opposite or outer end into a spring portion 16 and then extending back,

occupying a position not much removed from parallelism with the extension 15 to a point opposite the engaging projection and furnishing a supporting portion 17, upon which the frame or bed-bottom may rest. Finally at its end it is provided with a hook-engaging or stop portion 18, which prevents lateral movement of the supported part.

To enable the support to be applicable to the widest range of varying dimensions of bed-rails while still securing the minimum play between the engaging portions and the rail, the contact-face 14 follows a curve which is described by a series of tangents equal in length to the distance between the points *a* and *b* lying at the opposite ends of the side of a rail of maximum width. As will be more clearly seen by the position of the parts indicated in dotted lines in Fig 2, this will just permit the introduction of the rail between the members 10 and 15 and the contact-face. At the same time the retreat of the curve from the member 10 is such that the play of the support upon rails of gradually-decreasing widths will be minimized.

In the form of my invention illustrated in Fig. 4 the supporting parts are substantially the same as those previously described; but the engaging portion is adapted for application to the rail of a wooden bed and for this purpose has an upwardly-extending member 19, which will lie along the inside of the rail. It then projects at 20 over the top of the rail and finally terminates in the depending retaining portion 21.

It will be seen that my improved support may be very readily applied to any form of bed, it falling into place upon the rail as soon as applied and requiring no special adjustment or effort to secure the coaction of separate elements. When applied, it is safe against displacement and will retain its position with the least possible play upon a considerable range of sizes of beds. When in use, it allows the entire bottom which it supports to yield with a uniform and easy wave-like motion, rendering it exceedingly comfortable, and also considerably elevates the mattress above the

usual level of the bed, permitting free ventilation and being conducive to cleanliness.

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

5 1. A support for bed-bottoms, comprising a hooked portion adapted to engage an element of the bed-frame and to coact with opposite sides thereof, the end of said hooked portion extending back toward the opposite
10 side of the hook, and a portion for extending beneath the bed-bottom.

2. A support for bed-bottoms, comprising a hooked portion adapted to engage an element of the bed-frame, the end of said hooked
15 portion extending back toward the opposite side of the hook to furnish a curved contact-face.

3. A support for bed-bottoms, comprising a hooked portion adapted to engage an element of the bed-frame, the end of said hooked
20 portion extending back toward the opposite

side of the hook, and a spring portion for extending beneath the bed-bottom.

4. A support for bed-bottoms, comprising an integral member bent to form a curved end
25 having a contact-face, then bent beneath said end, then upward by the contact-face, and finally over the end to form a supporting portion.

5. A support for bed-bottoms, comprising
30 an engaging portion having a curved face, said curve being substantially described by a series of tangents, the ends of which terminate in the sides of adjacent portions of the support.

In testimony whereof I have signed my name
35 to this specification in the presence of two subscribing witnesses.

CHAS. L. HARRELL.

Witnesses:

SYLVANUS H. COBB,
JNO. M. RITTER.