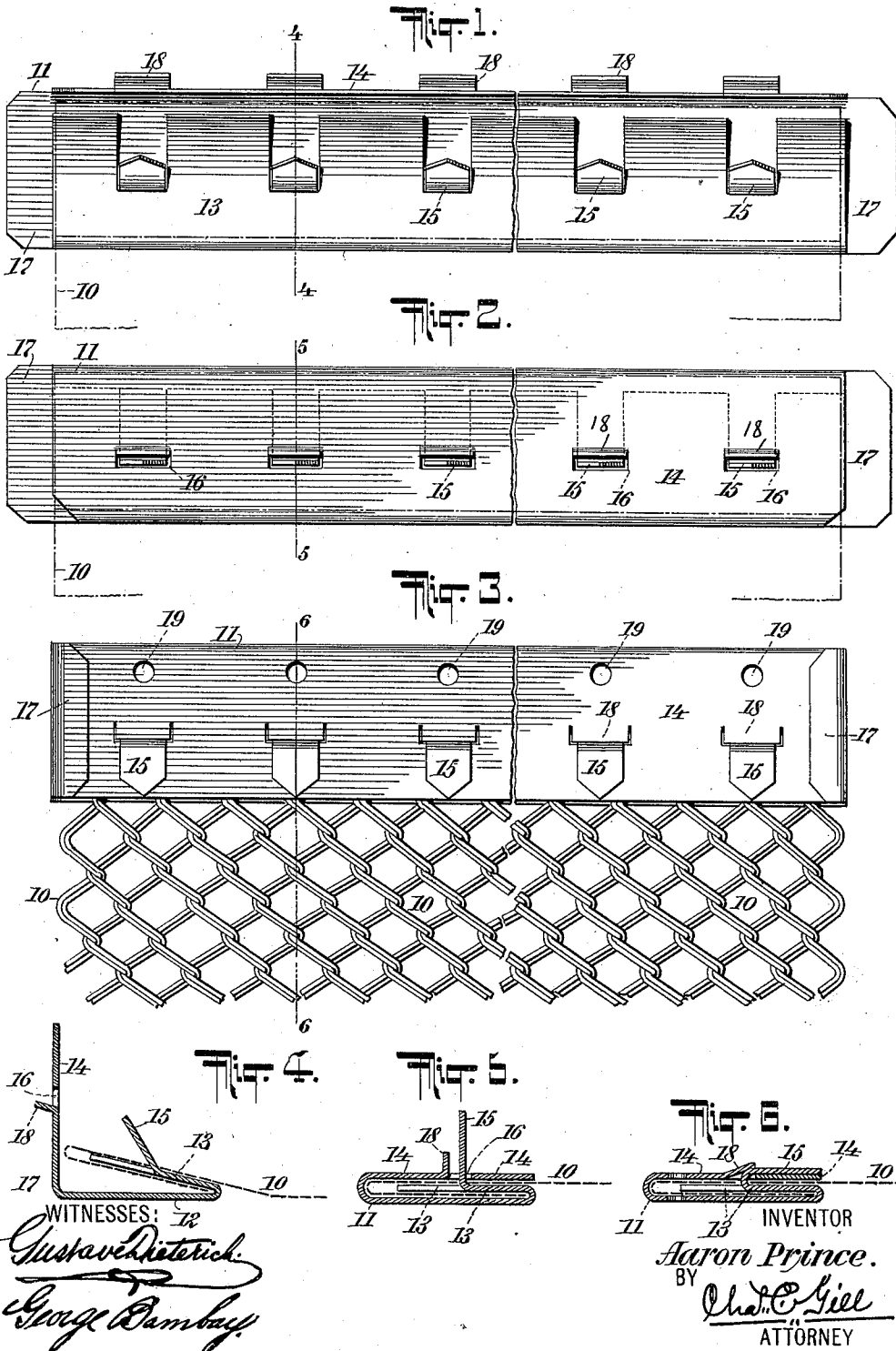


A. PRINCE.
WOVEN WIRE BED SPRING.
APPLICATION FILED JUNE 18, 1909.

1,001,981.

Patented Aug. 29, 1911.



UNITED STATES PATENT OFFICE.

AARON PRINCE, OF LAWRENCE, NEW YORK, ASSIGNOR TO THE NEW YORK WOVEN WIRE MATTRESS CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

WOVEN-WIRE BED-SPRING.

1,001,981.

Specification of Letters Patent.

Patented Aug. 29, 1911.

Application filed June 18, 1909. Serial No. 502,880.

To all whom it may concern:

Be it known that I, AARON PRINCE, a citizen of the United States, and a resident of Lawrence, in the county of Nassau and State of New York, have invented certain new and useful Improvements in Woven-Wire Bed-Springs, of which the following is a specification.

The invention relates to improvements in woven-wire bed-springs, and pertains more particularly to end-bars for receiving and confining the ends of such bed-springs, said end-bars being adapted to be secured to or connected with the customary end-rails of spring mattress-frames or to the end rails of beds.

The object of the invention is to provide thoroughly efficient end-bars for woven-wire bed-springs capable not only of very securely holding the ends of the stretched spring or mattress but of so inclosing and binding the same as to exclude dust and vermin from the end portions thereof.

The invention consists in the novel end-bars hereinafter described and claimed and may be fully understood from the detailed description hereinafter presented, reference being had to the accompanying drawings, in which:

Figure 1 is a top view of the end-bar prior to its parts being folded and flattened down, with the woven wire fabric indicated as applied thereto by dotted lines; Fig. 2 is a like view of the same but illustrating the main members of the end-bar as having been folded down upon the fabric; Fig. 3 is a like view of the same showing the fabric by solid lines and the members of the end-bar as flattened down into their final condition; Fig. 4 is a transverse section on the dotted line 4—4 of Fig. 1, the end of the fabric being indicated as folded back under the middle member of the end-bar; Fig. 5 is a transverse section on the dotted line 5—5 of Fig. 2, the upper member of the bar being shown as folded down, and Fig. 6 is a similar section on the dotted line 6—6 of Fig. 3 showing the bar in its final condition.

In the drawings, 10 designates a portion of a woven-wire bed-spring of customary character, and 11 an end-bar of my invention applied to the end of the same. The end-bar 11 is formed from an integral strip of sheet-metal folded to form three main members, viz: a base member 12, a middle or interme-

diate member 13 folded outwardly from the front edge of and disposed over said base member, and a top member 14 folded inwardly from the outer edge of said base member and extended over said middle member. The base member 13 has a series or line of prongs 15 struck up from it, and the top member 14 has formed in it a corresponding series or line of slits or openings 16 adapted, when said member 14 is pressed downwardly, to pass over and thereby receive said prongs, which, in the finished article, are folded over and flattened down against the upper surface of said member 14 and lock the latter down. The base member 12 has at its ends projecting flange portions 17 adapted to be folded over upon and flattened down against the top member 14 after the latter has been pressed downwardly to its final position, said flanges 17 then aiding in binding said top member in position and closing the joint or opening which except for the presence of said flanges would be left between the members 12, 14 at their ends. The slits or openings 16 are formed in the member 14 by cutting and bending up a line of short tongues 18, which after the member 14 has been pressed downwardly and the prongs 15 have been folded inwardly and downwardly, are pressed downwardly against the inner folded ends of said prongs, as shown in Figs. 3 and 6, thereby aiding in binding the parts together and closing the portions of the openings 16 in the member 14 not occupied by the prongs 15.

The woven-wire spring 10 is formed of interlocked spiral coils and is of known weave. In assembling the spring 10 and end-bar 11, the spring is placed upon and its end is folded back under the member 13 of the bar, the prongs 15 being projected upwardly through the meshes of the spring, and thereupon the top member 14 is pressed downwardly against the spring and middle member 13, the openings or slits 16 passing downwardly over said prongs, as shown in Fig. 5, after which the members 12, 13, 14 are pressed together and flattened and the prongs 15 folded down and flattened. The tongues 18 are folded down against the inner ends of the prongs 15, as hereinbefore described, and finally the end flanges 17 are folded over on the top member 14 and flattened down. It is plain that when the spring and end-bar have been assembled the

spring will be very securely held by a bar which is entirely durable. The bar 11 is preferably provided outwardly beyond the concealed edge of the member 13, with a series of holes 19 adapted to receive the usual coiled springs, not shown, by which bed-springs are sometimes supported or the nails, rivets or screws by which bed-springs are at times directly fastened to end-rails of beds.

What I claim as my invention and desire to secure by Letters-Patent, is:—

In combination with a woven wire fabric, a three-ply integral metal end-bar thereon comprising a member 12, a middle member 13 folded outwardly from the inner edge of and parallel with said member 12 and having a series of prongs 15 projected through the meshes of the fabric, and a member 14

folded inwardly from the outer edge of said member 12 and parallel with said middle member 13 and having a series of integral tongues 18 slit therefrom and leaving openings through which said prongs 15 project, said members of said bar and said tongues and prongs being flattened down and forming a compact bar with the prongs against said member 14 and said tongues closing the openings in said member 14; substantially as set forth.

Signed at New York city, in the county of New York and State of New York, this 16th day of June, A. D. 1909.

AARON PRINCE.

Witnesses:

ARTHUR MARION,
CHAS. C. GILL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."