

(No Model.)

2 Sheets—Sheet 1.

J. ARN.
BED.

No. 596,350.

Patented Dec. 28, 1897.

Fig. 1.

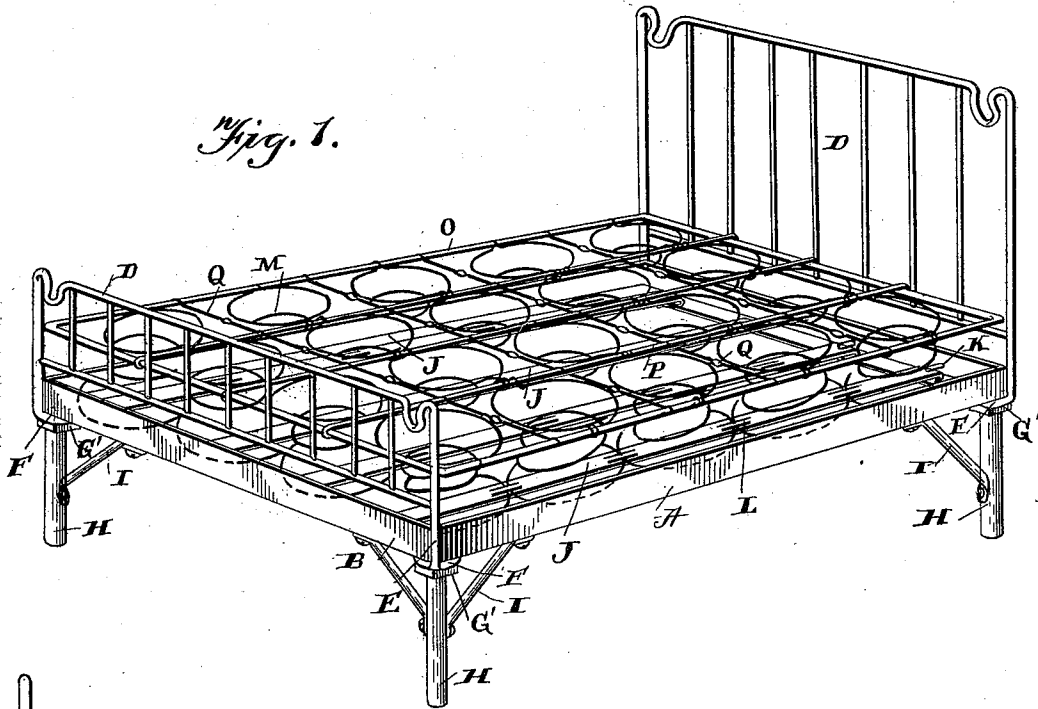
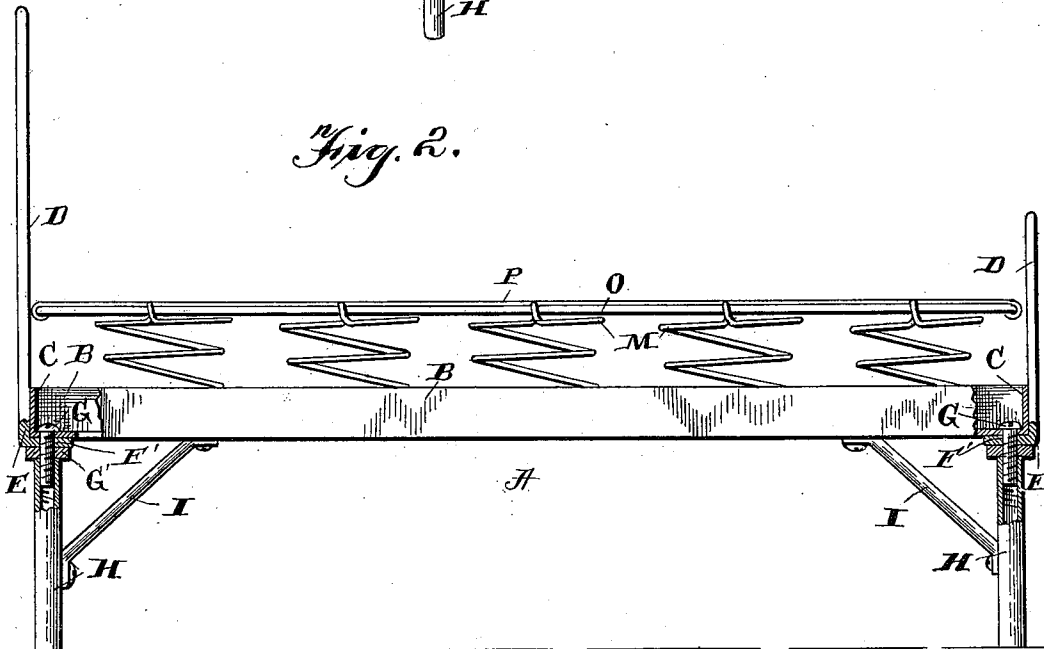


Fig. 2.



Witnesses
Geo. C. Truch.
James W. Berans

Inventor
John Arn.
By Patton & Vesbit
 Attorneys

(No Model.)

2 Sheets—Sheet 2.

J. ARN.
BED.

No. 596,350.

Patented Dec. 28, 1897.

Fig. 3.

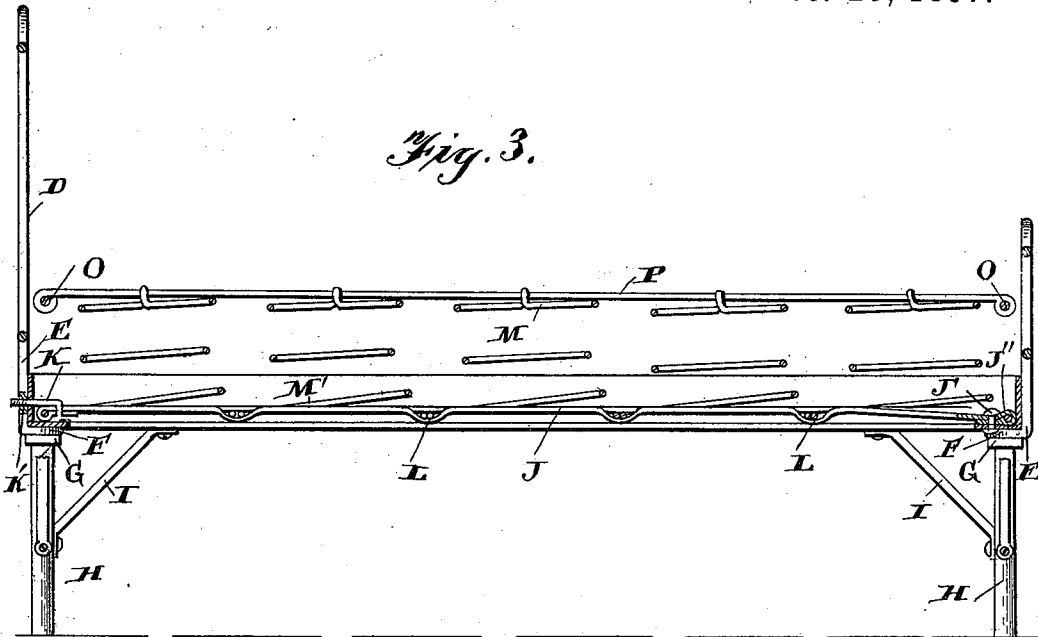
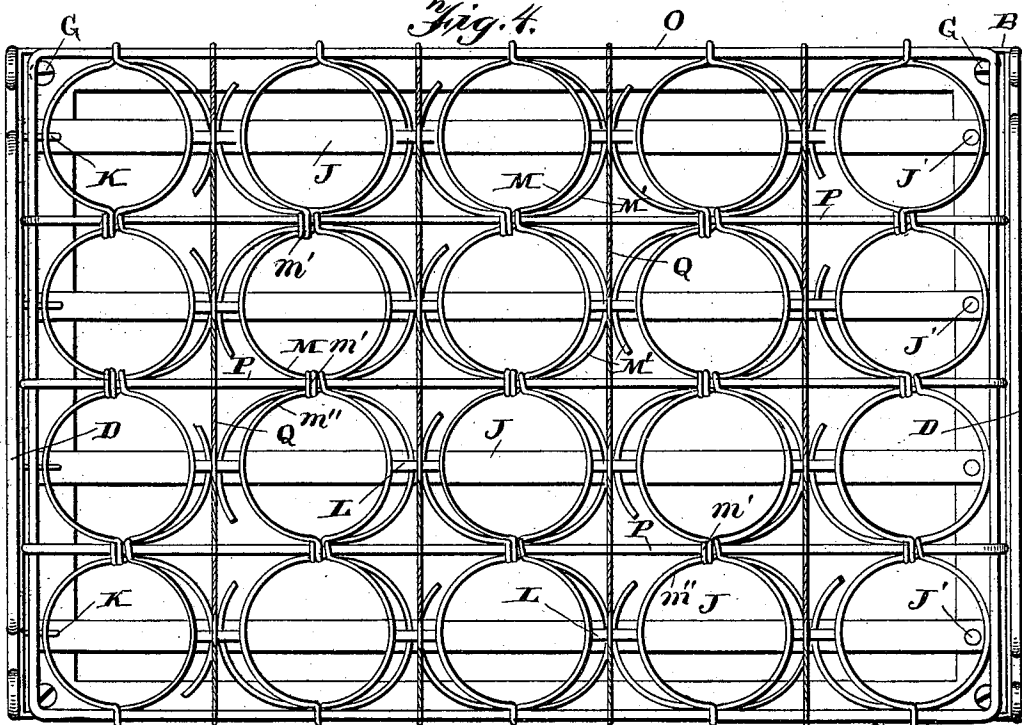


Fig. 4.



Witnesses

Geo. C. Truch.

James V. Beraw

Inventor

John Arn.

or Patience Necht
Attorney

UNITED STATES PATENT OFFICE.

JOHN ARN, OF COLUMBUS, OHIO.

BED.

SPECIFICATION forming part of Letters Patent No. 596,350, dated December 28, 1897.

Application filed June 25, 1897. Serial No. 642,263. (No model.)

To all whom it may concern:

Be it known that I, JOHN ARN, of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Beds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The object of the present invention, which relates to beds, is to provide a bedstead or bed-frame of new and improved form, and also to provide improved means for securing the springs thereto.

A further object of the invention is to provide improved means for securing the upper ends of the springs, so as to give them more even or unitary action than springs heretofore provided.

The invention consists in the novel features of construction and in the combination and arrangement of parts hereinafter fully described and claimed, and illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of the bed. Fig. 2 is a side elevation, shown partly in section. Fig. 3 is a longitudinal sectional view. Fig. 4 is a plan view.

The rectangular frame A of the bed is formed of the rigidly-connected angle-iron rails B and similarly-formed end bars C. The upright head and foot pieces D and D', respectively, are formed with depending posts E, and each post is turned laterally at its lower end, as at F, to extend beneath the angle or corner of frame A and bear flatly against the under side thereof, the laterally-turned portion being formed with eye F'. Screw G is projected downward through the horizontal angles of the rail and bar in the frame-corner and through eye F', after which nut G', to firmly secure the parts. Tubular leg H, threaded internally at its upper end, is then run up tightly upon the screw into engagement with nut G'. Braces I may be then removably secured to the leg and frame A for more firmly uniting said parts. An extremely simple, strong, and durable bed-frame or bedstead is thus provided, to which any of the usual forms of springs may be applied.

My improved arrangement of spring, which forms part of the present invention, consists of the elongated flat metallic springs or slats J, vertically yieldable and at one end secured by rivets J' to the horizontal portion of one of the end bars C, the opposite ends uniting with threaded hooks K, which extend through the vertical portion of the opposite bar C and are adjustably secured by nuts K'.

Springs J are slotted and bent to form integral loops L to receive and confine the lower terminals M' of spiral springs M, each loop also confining the bottom convolution M'' of an adjacent spring, as shown. The extremities of springs J are doubled to form loops J'' for confining the bottom convolutions of the end series of springs.

For securing the several spiral springs together, so that they may have unitary action, as a platform-spring, I provide the rectangular frame O, formed of heavy wire and provided with as many longitudinal strands P as there are lines of intersection of springs, and the upper terminal m' of each spring is wrapped around one of these strands or around the side bars of frame O, according to their location. The upper convolution m' of the adjacent springs are included in this wrapping, so that each spring is secured at opposite sides of its upper end to the frame and the springs themselves are bound together in rows transverse the bed. As the lower ends of the springs are bound together or secured in rows extending in just the opposite direction, the springs are effectually braced against longitudinal and transverse strain. Tie-wires Q traverse frame O and strands P and materially strengthen the frame transversely.

An extremely strong yet sensitive spring is thus provided, which may be used in connection with the frame here shown or with other frames, as may be preferred.

With the adjusting means for the under longitudinal supports for the springs the latter may be maintained in level position. The top frame not only binds the springs together, thus serving to brace one against the other, but also saves the bed edges from severe strain and constant sagging, owing to persons sitting thereon.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

1. An improved bed, comprising a frame, head and foot pieces having depending members turned laterally beneath the frame and formed with eyes, legs for the frame, and bolts adapted to extend vertically through the frame and said eyes and secure the legs in position, substantially as shown and described.
2. An improved bed, comprising a frame, head and foot pieces having depending members formed with eyes adapted to extend transversely beneath the frame, tubular legs threaded internally at their upper ends, and screw-bolts adapted to depend through the frame—the said eyes—and into the threaded ends of the tubular legs, thus clamping all the parts together, substantially as shown and described.

3. The combination, in a bed, of a support, upright spiral springs arranged in rows, an open frame at the top of the springs provided with strands, the distance between the latter being equal to the width of the upper ends of the springs, the upper convolutions of the springs and the terminals of adjacent springs meeting adjacent the frame-strands, such terminals being wrapped around the adjacent upper spring convolutions and the strands for uniting the springs together and to the strands, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN ARN.

Witnesses:

C. HERMAN,
GEORG VOLZ.