

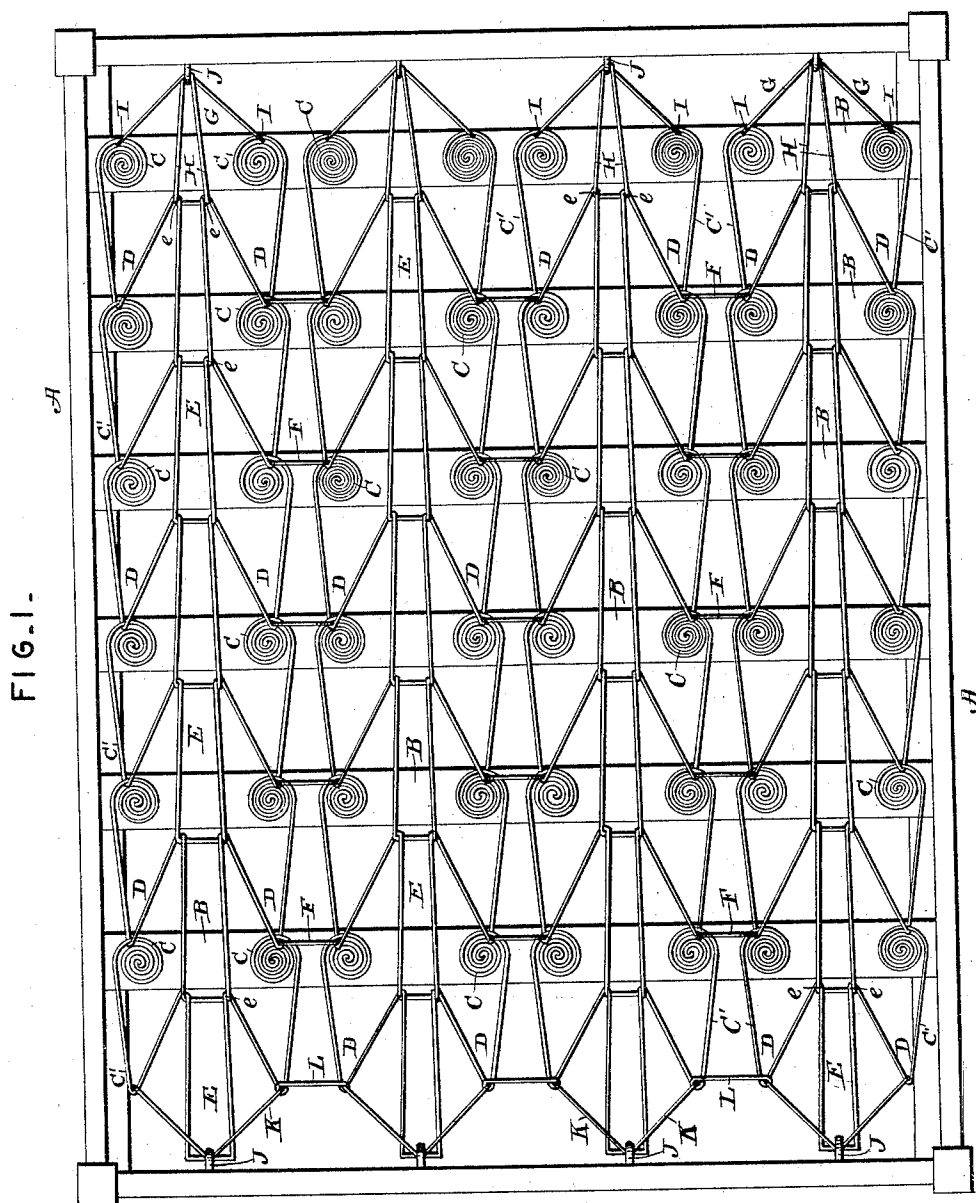
(No Model.)

2 Sheets—Sheet 1.

J. SIMS, D. J. WOOD & J. W. SIMS.
BED SPRING.

No. 476,835.

Patented June 14, 1892.



Witnesses

James K. McLaughlin
David H. Haupt

By their Attorneys,

Inventors
James Sims.
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C. A. Snow & Co.

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FIG. 2.

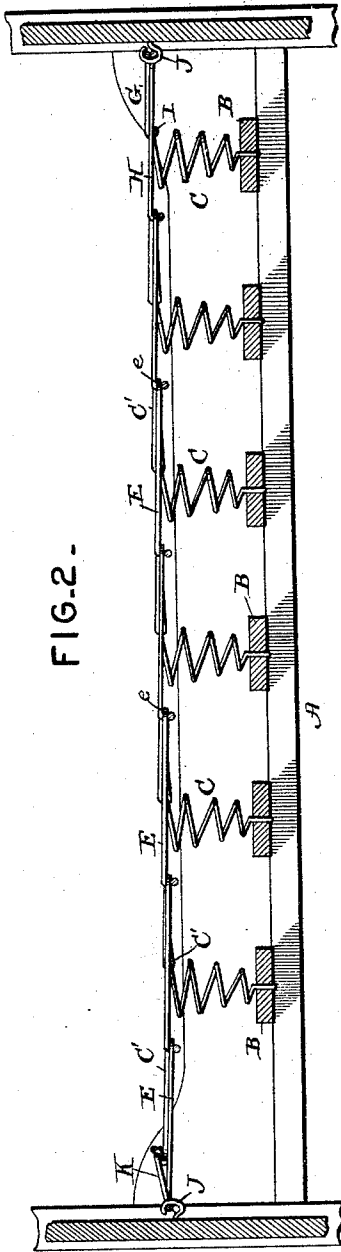
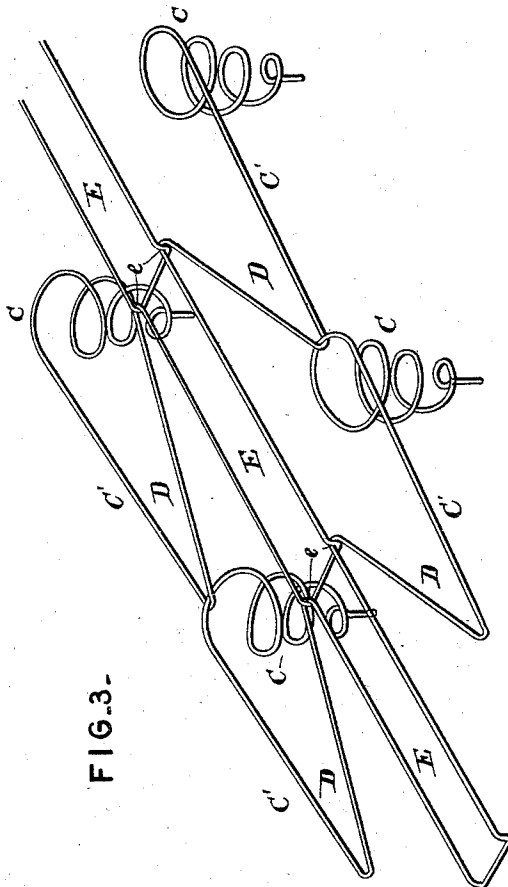


FIG. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES SIMS, DAVID J. WOOD, AND JOHN W. SIMS, OF BENTONVILLE,
ARKANSAS.

BED-SPRING.

SPECIFICATION forming part of Letters Patent No. 476,835, dated June 14, 1892.

Application filed April 8, 1892. Serial No. 428,353. (No model.)

To all whom it may concern:

Be it known that we JAMES SIMS, DAVID J. WOOD, and JOHN W. SIMS, citizens of the United States, residing at Bentonville, in the
5 county of Benton and State of Arkansas, have invented a new and useful Bed-Spring, of which the following is a specification.

This invention relates to spring bed-bottoms; and it has for its object to construct a
10 spring bed-bottom which, while having the various parts thereof firmly joined and connected together, at the same time provides a closely-formed bed-bottom which has all the spaces between the coils of springs entirely
15 closed by the connections which connect the springs themselves together, and thus form more spring area than in most bed-bottoms of this character. The bedding is thus prevented from working down between the
20 springs, and which thus provides for the comfortable accommodation of different weights on each side of the bed. This construction also obviates the possibility of the springs leaning over and overlapping each other.

25 With these and many other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more
30 fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a top plan view of a bed-bottom constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig.
35 3 is an enlarged detail view of two pairs of springs having their bridges locked together.

Referring to the accompanying drawings, A represents an ordinary bed-frame supporting the transverse slats B, resting upon the
40 sides of the frame in the usual manner. Secured upon the top of each of the slats B are separate pairs of coiled springs C, extending from side to side of the bed-frame to fill the entire space between the sides of the frame.

45 Each pair of springs B are formed of a single piece of wire and have their upper coils extended out and beyond the coils of the springs to form the extended bridges C'. Each of the bridges C' comprises the opposite V-
50 shaped portions D, extended directly beyond

and in front of the opposite springs comprising each pair, and the central elongated U-shaped portions E, joining the inner ends of the V-shaped portions D at *e*, and said U-shaped portions are themselves extended
55 from their connection at *e* with the opposite V-shaped portions beyond the apices of the sections D on each side thereof and between and slightly beyond the pair of springs on the next adjacent slat. Each of the V-shaped
60 portions of the bridges C' has its respective apices take over and engage the upper coil of the springs of the adjacent pair between which the said U-shaped portion of the same bridge extends. The closed ends
65 of the U-shaped portions E of each bridge take over the adjacent U-shaped portions of the adjacent bridge of the springs on the adjacent slat and interlock with the said adjacent bridge at the juncture *e* of the inner
70 ends of the V-shaped portions with the central U-shaped portions, as illustrated in the drawings. It will thus be seen that each adjacent bridge is securely locked with its ad-
75 jacent bridge, while at the same time the V-shaped portions of the same bridge are also locked with the springs having said adjacent bridge, thus providing when all the bridges are locked with each other and with their ad-
80 jacent springs a practically-closed top, forming a spring bed-bottom which, while giving to pressure upon any portion thereof, will at the same time prevent the bedding from pass-
85 ing between the springs at any part of the bed-bottom. Coupling-links F connect the apices of the side V-shaped portions which
lie adjacent to each other upon the same slats with each other. The said coupling-links
90 also pass over the top coils of the springs which the said V-shaped portions engage and effectually prevent the said V-shaped portions from sliding out of position and shape.

At the front end or head of the bed-frame A the head pairs of springs and their respective bridges are coupled or locked to the
95 head of the bed by means of the coupling-wires G. The said coupling-wires G have a central loop portion H, connecting the front bridges at *e*, and the laterally-extending hook-arms I, engaging the top coils of the springs.
100

The said coupling-wires are fastened to the head of the bed by ordinary hooks J. The foot pairs of springs and their respective bridges are also locked to the foot of the bed by means of the angular coupling-wires K, engaging hooks J in the foot of the bed-frame and the apices of the various V-shaped portions of the bridges, which are themselves connected together by connecting-links L, which entirely close the spaces between the various bridges, said U-shaped portions of the lower pairs of springs taking over said hooks J to complete the coupling. By means of these various couplings and connections the bed-bottom is provided which possesses the various characteristics premised.

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

1. In a spring bed-bottom, the combination, with the slats, of the adjacent pairs of coiled springs upon said slats, each of said pairs of springs having extended bridges which comprise the opposite V-shaped portions having their respective apices engaging the upper coils of the adjacent pair of springs and the central elongated U-shaped portions joining the inner ends of the V-shaped portions and extended beyond the apices of said V-shaped portions between and beyond the said adjacent pair of springs and interlocked with the bridge of said adjacent pair of springs, substantially as set forth.

2. In a spring bed-bottom, the combination of the adjacent pairs of coiled springs, each of said pairs of springs having extended bridges which comprise opposite V-shaped portions having their respective apices engaging the upper coils of the adjacent pair of

springs and the central elongated U-shaped portions joining the inner ends of the V-shaped portions and extended beyond the apices of said portions between and beyond the said adjacent pair of springs and interlocked with the bridge of said adjacent pair of springs, and the coupling-links connecting the apices of the adjacent V-shaped portions with the coils of the springs which said apices engage, substantially as set forth.

3. In a spring bed-bottom, the combination, with the bed-frame and the slats therein, of the adjacent pairs of coiled springs upon said slats, each of said pairs of springs having extended bridges interlocking with the adjacent bridges and pairs of springs, said bridges comprising opposite V-shaped portions and a central elongated U-shaped portion extended beyond the apices of said V-shaped portions and between and beyond the said adjacent pair of springs, and the end couplings having a central loop portion engaging the end bridges, and laterally-extending hook-arms engaging the top coils of the end pairs of springs and the bed-frame, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

JAMES SIMS.
DAVID J. WOOD.
JOHN W. SIMS.

Witnesses for James Sims and D. J. Wood:
DON L. CROSS,
N. P. GOTCHER.

Witnesses for John W. Sims:
I. H. MOORE,
HENRY CARVER.