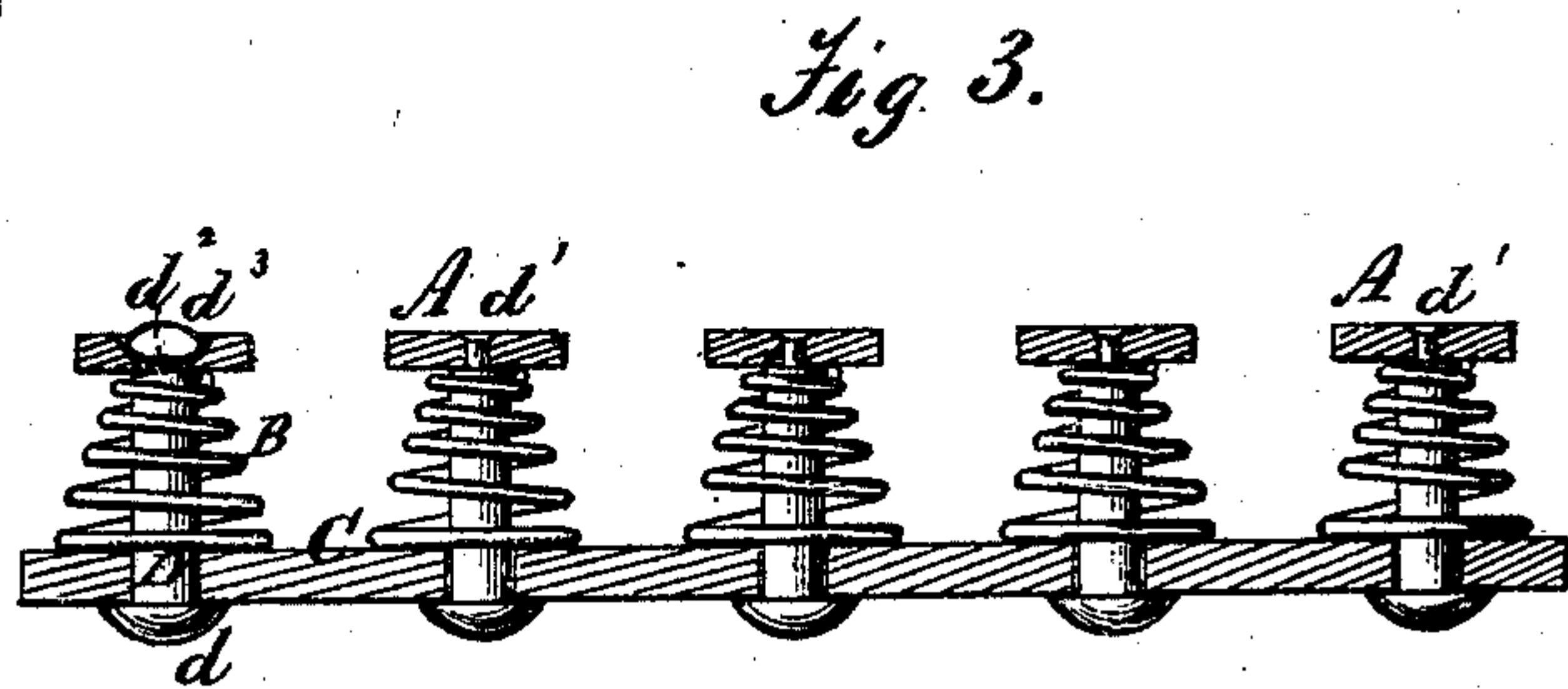
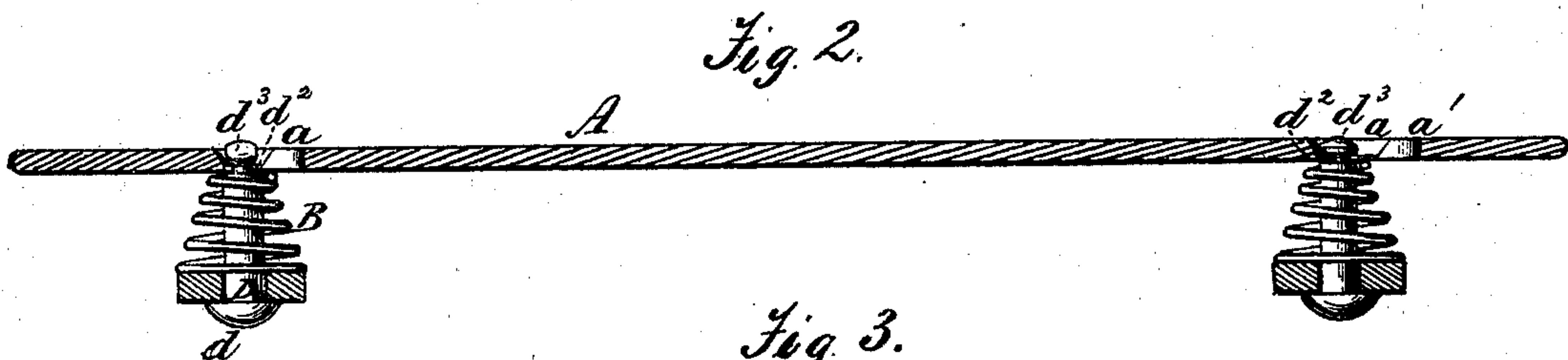


JOHN H. POWER.

Improvement in Bed Bottoms.

No. 123,046.

Patented Jan. 23, 1872.



Witnesses.
A. Ruppert.
C. E. J. C. C.

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UNITED STATES PATENT OFFICE.

JOHN H. POWER, OF BURLINGTON, IOWA.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. 123,046, dated January 23, 1872.

Specification describing certain Improvements in Bed-Bottoms, invented by JOHN H. POWER, of Burlington, in the county of Des Moines and State of Iowa.

This invention relates to that class of bed-bottoms in which the slats sustaining the mattress are borne upon springs; and my improvement consists in confining the springs between the abutment-bars and the yielding slats by means of bolts or tie-rods, which are passed from beneath through suitable apertures in the abutment-bars and through the coils of the springs, and then fastened to the slats, slightly compressing the springs so as to hold them in proper position without any fastening of their ends to either the abutment-bars or the slats. It further consists in so fastening the said bolts or tie-rods to the slats that they may be readily detached and again put together.

Figure 1 is a plan view of a bedstead embodying my improvements in bed-bottoms. Fig. 2 is a vertical section of my improved bottom on line *xx* of Fig. 1. Fig. 3 is a vertical section thereof on line *yy* of Fig. 1.

The same letters of reference are employed in all the figures in the designation of identical parts.

The several slats *A A* are independent of one another, as shown clearly in Fig. 1, and the action of one of them will therefore not affect any of the rest, avoiding thus the objectionable inclination given to spring bed-bottoms of the ordinary kind when subjected upon one side to a weight unequal to that resting upon the other. Each individual slat is borne upon springs *B B* placed under it, one near each end, and these springs are, in turn, supported upon the fixed abutment-bars *C C*, which are arranged transversely to the slats, and are made of the proper length to fit between the sides of the bedstead to be sustained upon cleats thereon. The springs shown are of the volute kind, but others with circular coils, such as the spiral or hour-glass springs may be used instead, if preferred. They are confined be-

tween the fixed bars *C* and the slats *A* by means of the bolts or tie-rods *D*, which are made of such a length between the heads or shoulders at the ends that when the parts are properly connected together, as best seen in Figs. 2 and 3, the springs will be slightly compressed, and its lateral shifting prevented, so that in consequence of being compelled to act in a perpendicular direction it is less liable to be bent or broken. Each bolt is passed up through the bar *C* and its respective spring until its head *d* comes in contact with the bar *C*; the slat is then placed on its upper end and secured so as to slightly compress the spring, as above stated, dispensing with all other fastenings of the springs. The slats may be fastened to the bolts by screws *d¹*, as shown, or by forming a short shank, *d²*, on the upper end of the bolt, which shank, passing through a narrow slot, *a*, in the slat, terminates in a head, *d³*, which may be of the elongated form shown on the left side of Fig. 1, or of the circular form shown on the right side of Fig. 1. When made of the elongated form, the bolt, after passing its upper head through the slot in the slat, is turned a quarter of a revolution to arrange the head transversely over the slot; and when said head is made of circular form, the slot *a* in the slat is enlarged at *a'* to permit the head to pass through it at that point, when, by moving the slat endwise, its head is brought over the narrow portion of the slot *a*.

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

The combination of the slats *A a*, tie-rods *D d² d³*, springs *B*, and abutment-bars *C*, substantially in the manner herein shown and described, and for the purpose specified.

In testimony whereof I have hereunto signed my name this 21st day of November, A. D. 1871, in presence of two subscribing witnesses.

JOHN H. POWER.

Witnesses:

L. B. POWER,
R. S. M'ENTIRE.