

(No Model.)

3 Sheets—Sheet 1.

F. P. BAILEY.
BED COUCH.

No. 576,020.

Patented Jan. 26, 1897.

Fig 1

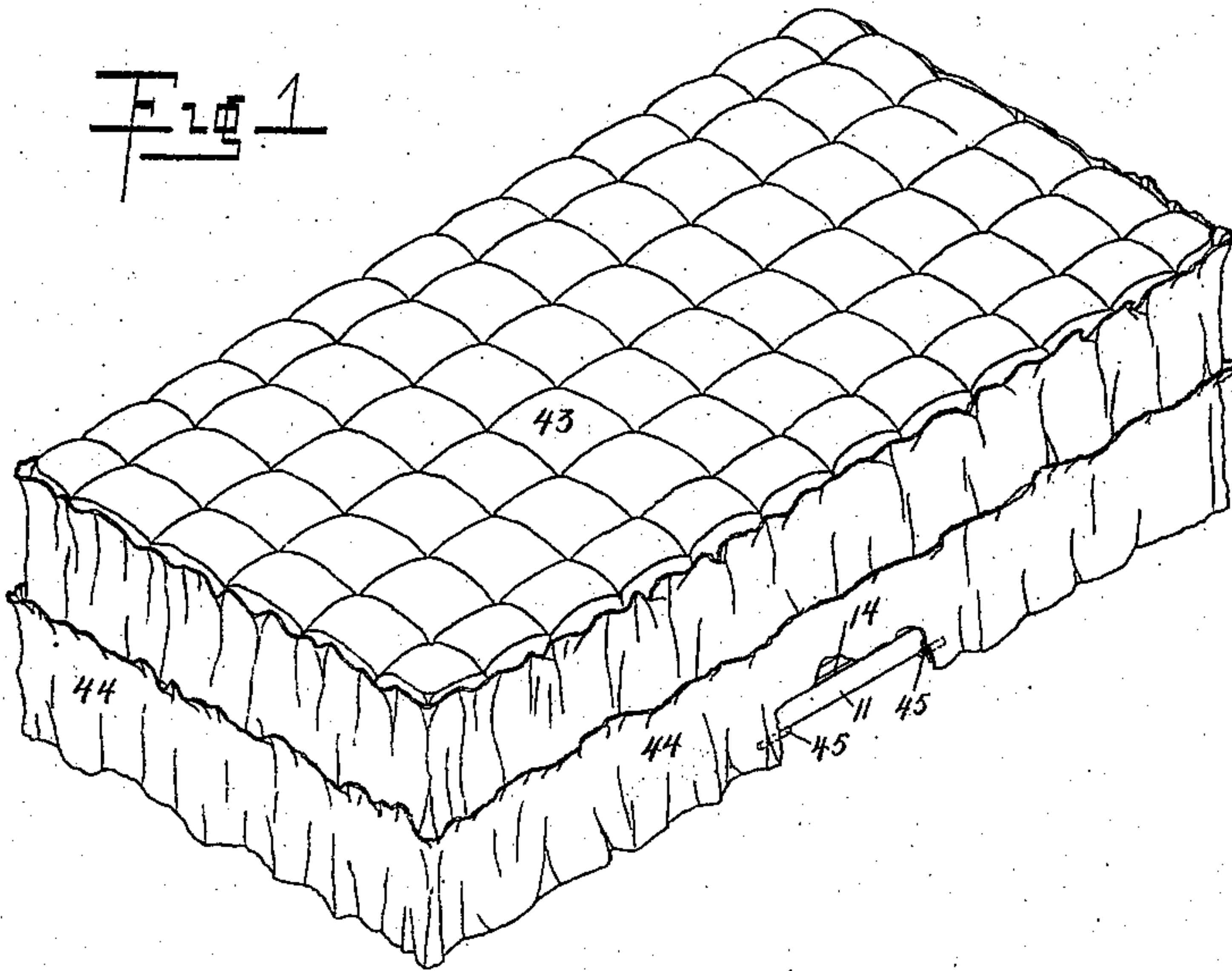
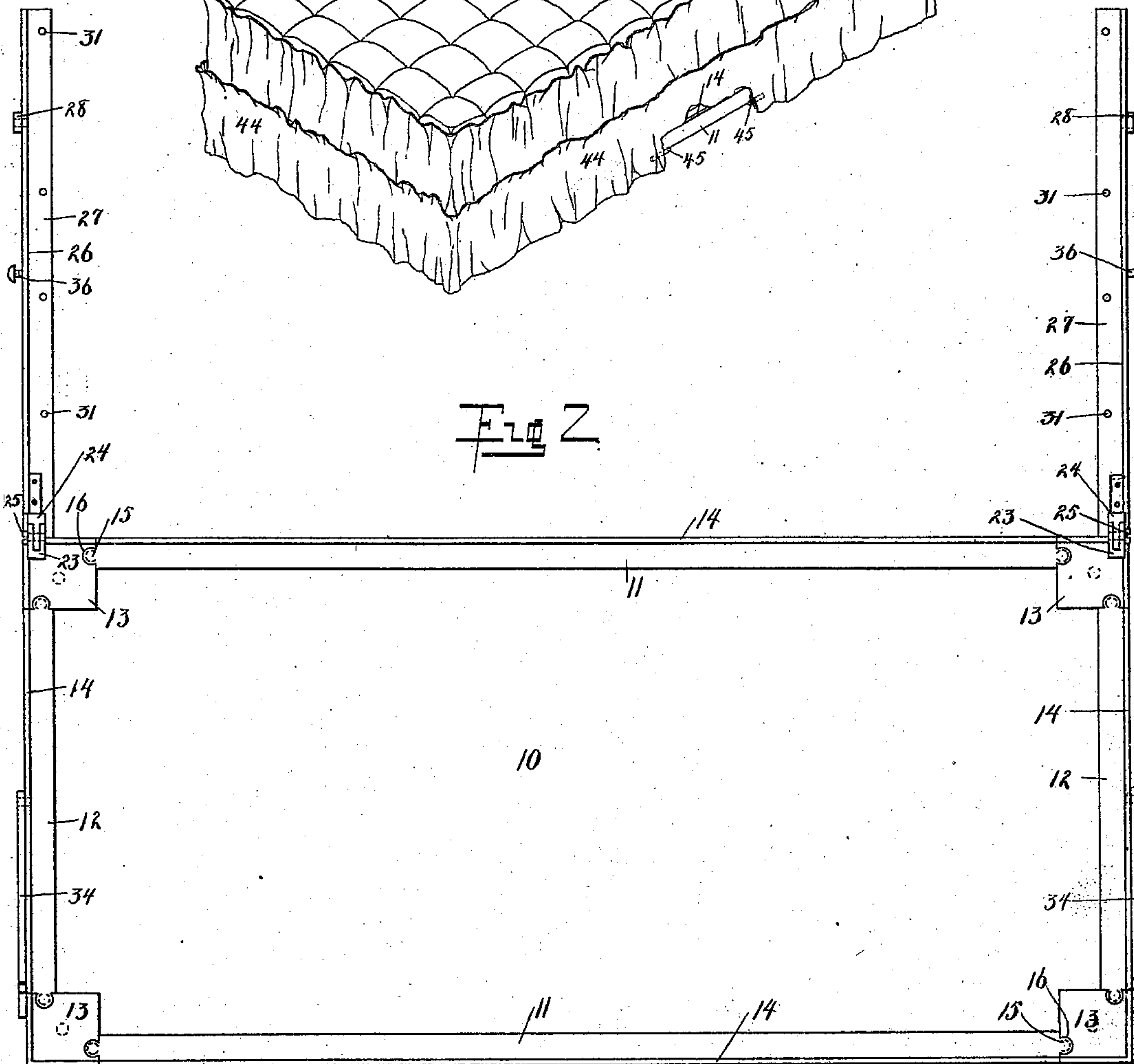


Fig 2



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Fig 3

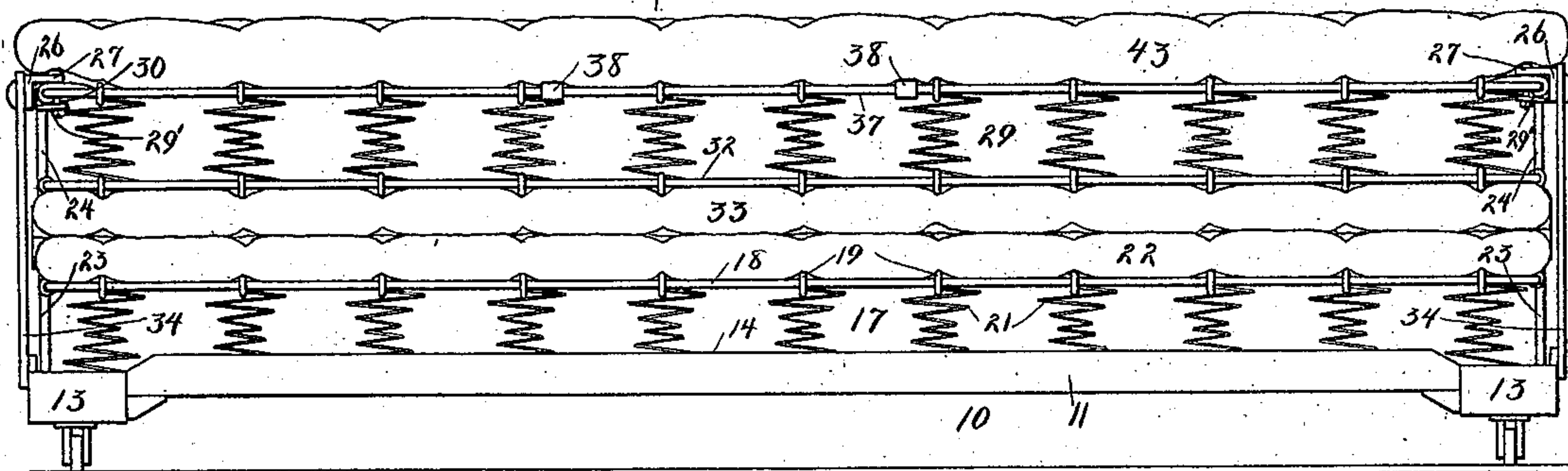


Fig 4

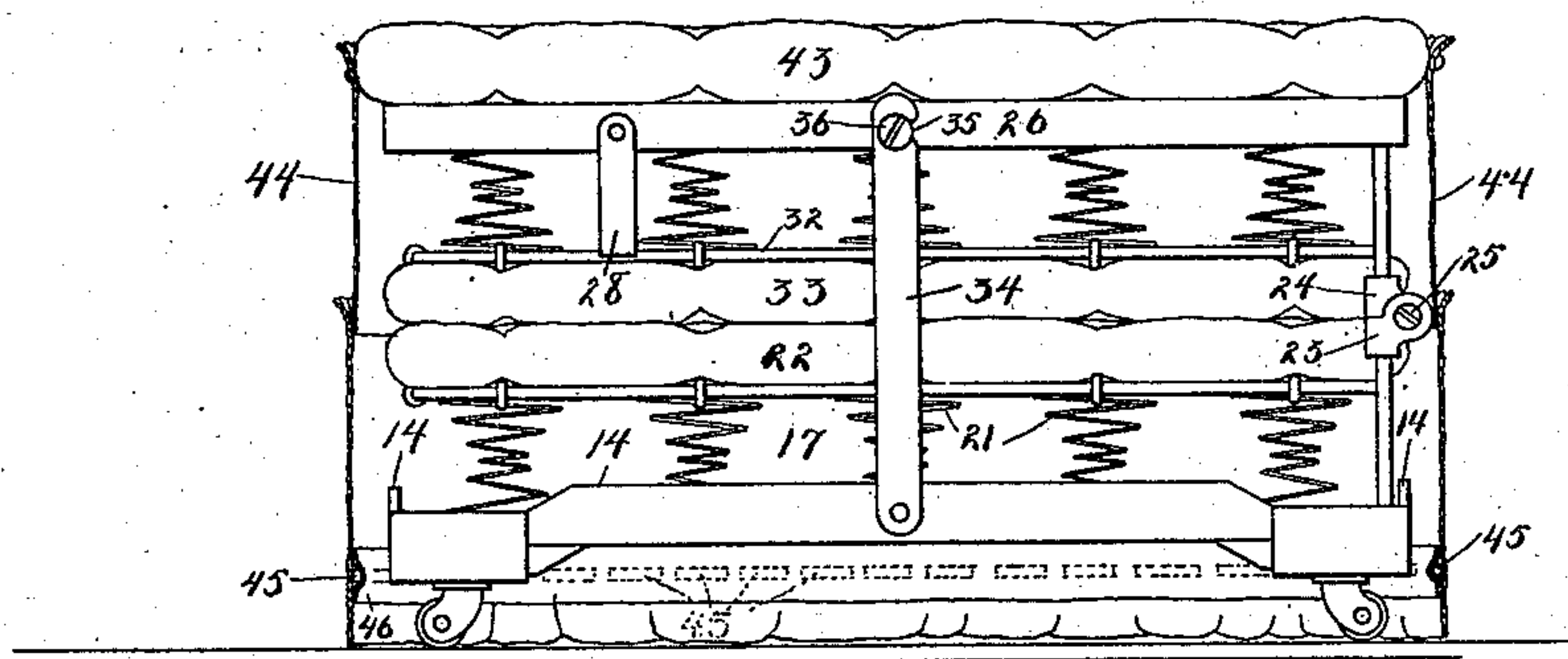
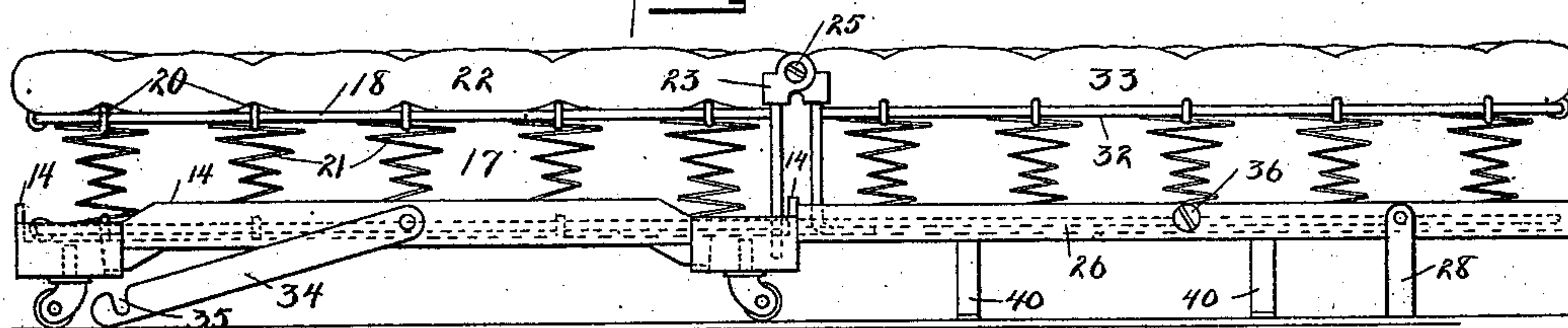


Fig 5



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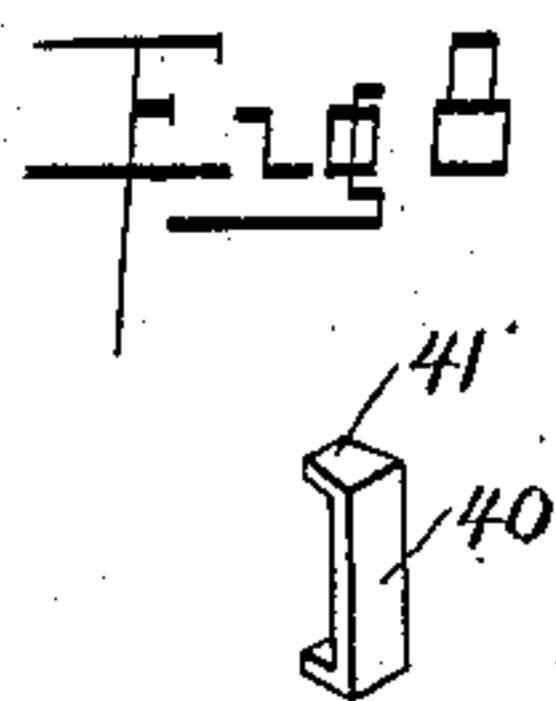
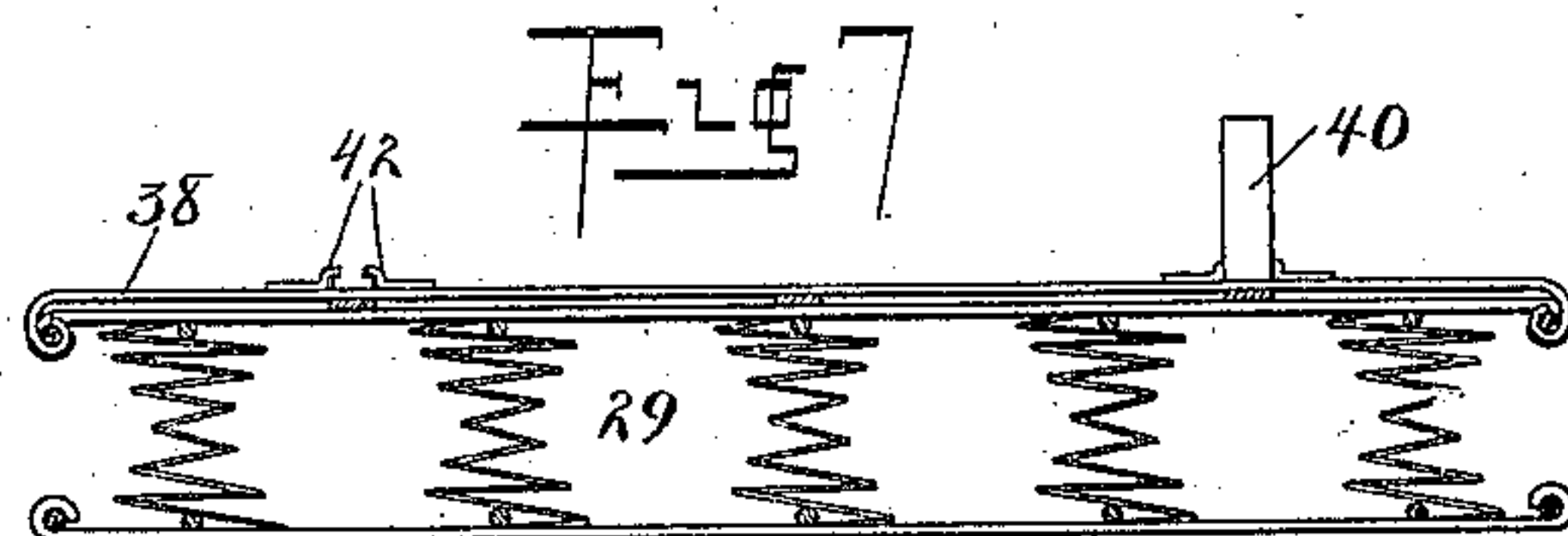
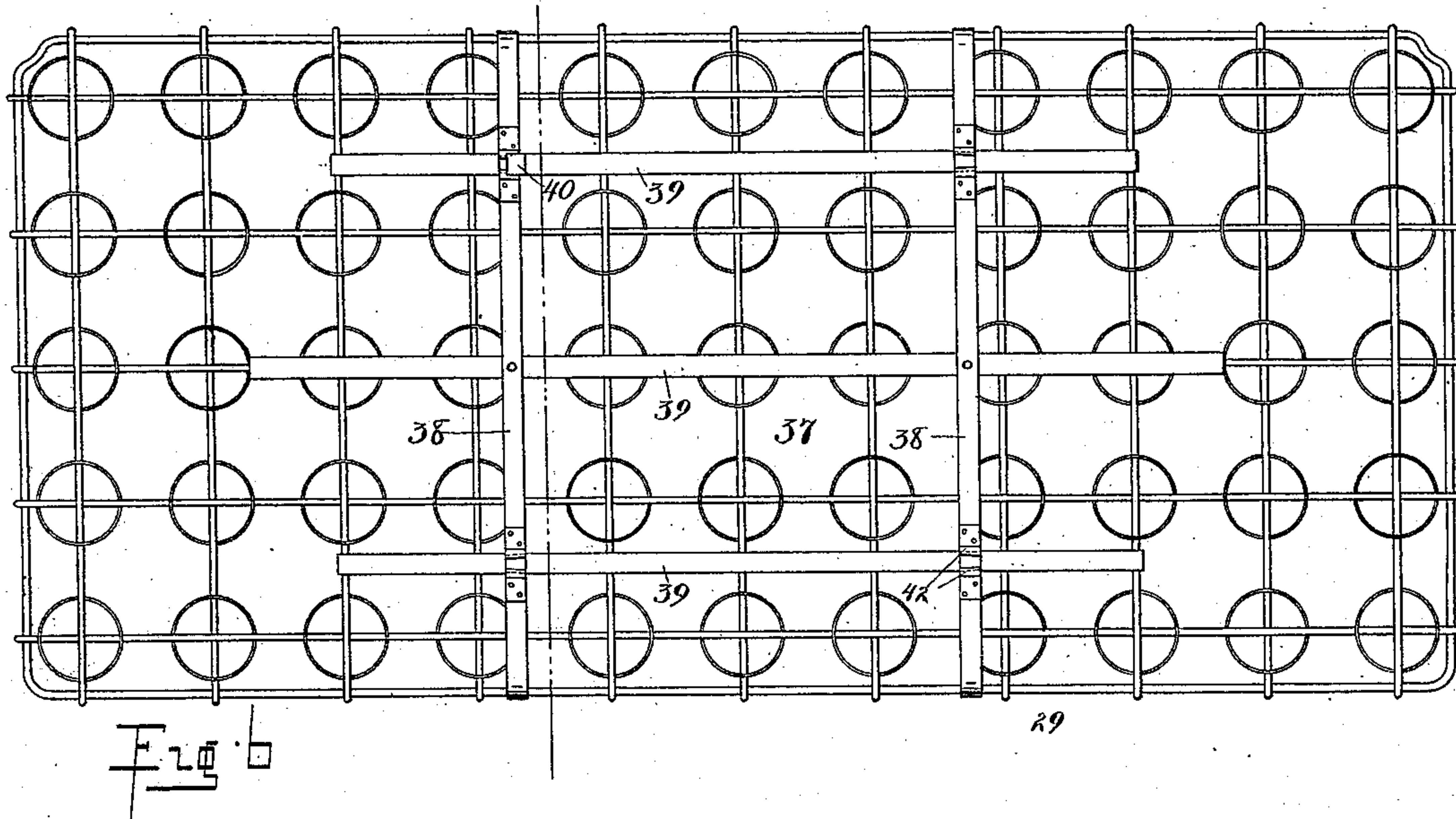
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UNITED STATES PATENT OFFICE.

FRANCIS P. BAILEY, OF INDIANAPOLIS, INDIANA.

BED-COUCH.

SPECIFICATION forming part of Letters Patent No. 576,020, dated January 26, 1897.

Application filed February 3, 1896. Serial No. 577,871. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS P. BAILEY, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Bed-Couch, of which the following is a specification.

My invention relates to an improvement in bed-couches.

The objects of my invention are, first, to produce a bed-couch the various parts of which are at all times easily accessible and so arranged that there will be no harboring-places for bedbugs and other like vermin; second, to produce a bed-couch the various parts of which will be light enough to be easily lifted by a woman, but which will at the same time be thoroughly braced in either the closed or open position, and, third, to provide a suitable covering for the parts when arranged as a couch.

The accompanying drawings illustrate my invention.

Figure 1 is a view in perspective, the parts being in position to form a couch and a portion of the valance removed. Fig. 2 is a plan of the framework. Fig. 3 is a side elevation, the parts being in position to form a couch and the valance removed from the upper cushion. Fig. 4 is an end elevation of Fig. 3 with the valance shown in section. Fig. 5 is an end elevation with the parts in position to form a bed. Fig. 6 is a plan of one of the spring-mattresses. Fig. 7 is a section on line 7 7 of Fig. 6, and Fig. 8 is a view in perspective of one of the auxiliary legs.

In the drawings, 10 indicates the main frame, composed of the side bars 11, end bars 12, and corner-pieces 13. Bars 11 and 12 are formed, preferably, of light angle-iron, having an up-turned flange 14, and each of said bars is provided with a projection 15, adapted to fit into a corresponding opening 16, formed in corner-pieces 13. Spring-mattress 17, formed in the usual well-known manner of binding-wires 18, cross-wires 19, longitudinal wires 20, and springs 21, is of sufficient size to rest upon the upper surfaces of bars 11 and 12 and corner-pieces 13 inside of flanges 14, said flanges projecting but slightly above the binding-wires 18 about the lower portion of the mattress. Upon the upper surface of mattress 17 is laid a hair or other suitable mattress 22, said mat-

tress being of substantially the same size as mattress 17.

Rising from two of the corner-pieces 13 are a pair of standards 23, and to the upper end of each of these standards is pivoted a similar standard 24 by means of a removable screw 25. To the free end of each standard 24 is rigidly secured a bar 26, formed, preferably, of angle-iron, flanges 27 of said bars being turned toward each other and the other flanges being turned toward the pivotal point of standards 24, the whole arrangement being such that with the parts in the position shown in Fig. 5 the upper surfaces of flanges 27 will lie substantially in the same plane as the upper surfaces of the inturned flanges of bars 11 and 12. To the outer surface and near the outer end of each bar 26 is pivoted a short foot 28, which serves to support the outer end of said bar when in the position shown in Fig. 5.

29 indicates a spring-mattress, similar to mattress 17. Said mattress is of a length sufficient to allow it to rest upon the inturned flanges 27 of bars 26, and is secured to said bars by means of a plate 29' and a series of bolts 30, passing through said plate and a series of holes 31 in flanges 27. Upon surface 32 of mattress 29 is laid a mattress 33, similar to mattress 22.

For the purpose of relieving standards 23 and 24 from the stress and for maintaining bars 26 the proper distance from frame 10 when the parts are in position to form a couch, as shown in Fig. 4, I pivot to the outer sides of end bars 12 a pair of latches 34 of the proper length, each provided near its outer end with a notch 35, adapted to engage and hold in both an upward and a downward direction a screw or pin 36, carried by each bar 26.

It will be noticed that when arranged for a bed spring-mattress 29 is only supported at its ends. Under some circumstances it may be found necessary to brace and support the middle of the said mattress. For this purpose, at substantially equal distances from the middle of surface 37 (the upper surface with the parts in the position shown in Fig. 3) of mattress 29, a pair of transverse braces 38 are secured at their ends to the binding-wire 18, and secured to these transverse braces are several longitudinal braces 39. For unusually heavy persons it has been found advisable to further support the middle of mat-

trese 29 by means of several detachable legs 40, which may be easily detached when the device is to be used as a couch.

Legs 40 are preferably mounted on the transverse braces 38, and in the drawings said legs are shown as provided with a slightly-tapered head 41, which is adapted to fit between a pair of jaws 42, secured to said braces 38.

A light cushion 43, somewhat larger than frame 10, is adapted to be placed upon surface 37 of mattress 29 when the parts are in the position shown in Figs. 3 and 4 and legs 40 have been removed.

For the purpose of hiding the frame, springs, and mattresses when the device is to be used as a couch a valance 44, of any suitable construction and of a length to reach nearly or quite to the floor, is secured to cushion 43, and for the purpose of keeping said valance down in position and at the same time allow it to have sufficient flexibility, so that it will hang gracefully, I secure to the inside of said valance near the bottom a series of short weights 45 by any suitable means, such as the strip of cloth 46.

It will be noticed that with the parts in the position shown in Figs. 3 and 4 both sides of the couch are entirely free from side rails, with the exception of the side rails of the main frame. In view of the fact that these side rails project but slightly above the lower surface of the lowest spring-mattress and that between these rails and the upper cushion are two spring-mattresses and two hair mattresses it is evident that even a person of extreme weight could sit upon the edge of the couch without coming in contact with a side rail, as is common in couches of any ordinary construction. Again, with the parts in the position shown in Fig. 5 it will be noticed that even in the center, where the two sets of mattresses come together, there is no danger of coming in contact with a side rail, for, as previously stated, the side rails of frame 10 project very little (practically none) above the lower surface of the mattress, so that the spring-mattresses may be compressed to their extreme position.

In the construction described all of the parts are capable of being, and are, made very light, the mattresses, both spring and hair, may be easily removed, and all of the parts kept thoroughly clean, thereby preventing the entrance of bedbugs and similar vermin.

The frame is easily taken apart and assembled, thereby allowing the various parts to be compactly arranged for shipment.

I claim as my invention—

1. In a bed-couch, the combination with the main frame adapted to support a spring-mattress, of a pair of independent bars pivoted to said main frame and adapted to receive and support the ends only of a second spring-mattress, the arrangement being such that said last-mentioned mattress may be folded on top of said first-mentioned mattress, all substantially as described.

2. In a bed-couch, the combination with the

main frame, the upper surface of said frame being adapted to support a spring-mattress, of a pair of independent bars pivoted to said main frame and adapted to receive and support the ends of a second spring-mattress, a pair of latches pivoted, one to each end of the main frame, and a pair of pins secured, one to each bar, in a position to be engaged by the free ends of the latches, whereby, when the parts are folded together to form a couch, the said latches act as braces for the said bars, substantially as set forth.

3. The combination with a support for the ends of a spring-mattress, of a support for the middle portion of said mattress, consisting of the transverse and longitudinal braces secured to each other and to the binding-wire of the mattress, and a series of supporting-legs removably secured to said braces, as and for the purpose set forth.

4. In a bed-couch, the combination of a main frame the upper surface of which is adapted to support a spring wire mattress, a pair of standards secured to said main frame, a similar pair of standards pivoted to said first-mentioned standards, a pair of independent bars secured to the free ends of said last-mentioned standards, a spring, wire mattress secured at its ends to said bars, and means for supporting the outer ends of said bars when the parts are in position to form a bed, substantially as set forth.

5. In a bed-couch, the combination of a main frame the upper surface of which is adapted to support a spring mattress, a pair of standards secured to said main frame, a similar pair of standards pivoted to said first-mentioned standards, a pair of bars secured to the free ends of said last-mentioned standards, a spring, wire mattress secured at its ends to said bars, means for supporting the outer ends of said bars when the parts are in position to form a bed, and one or more supplemental legs removably secured to said spring-mattress for supporting the under surface of said mattress when in position to form a bed, substantially as and for the purpose set forth.

6. In a bed-couch, the combination of the bars 11 and 12, having the upturned flanges 14, corner-pieces 13 detachably connecting said bars, standards 23 secured to two of said corner-pieces and projecting upward therefrom, standards 24 detachably pivoted to the upper ends of standards 23, bars 26, provided with flanges 27, secured to the free ends of standards 24, a spring-mattress resting at its ends upon flanges 27 and secured thereto, means for supporting the outer ends of bars 26, and latches 34 pivoted to bars 12 and adapted to engage with pins 36 carried by bars 26, all combined and arranged to cooperate substantially as and for the purpose set forth.

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Witnesses:

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