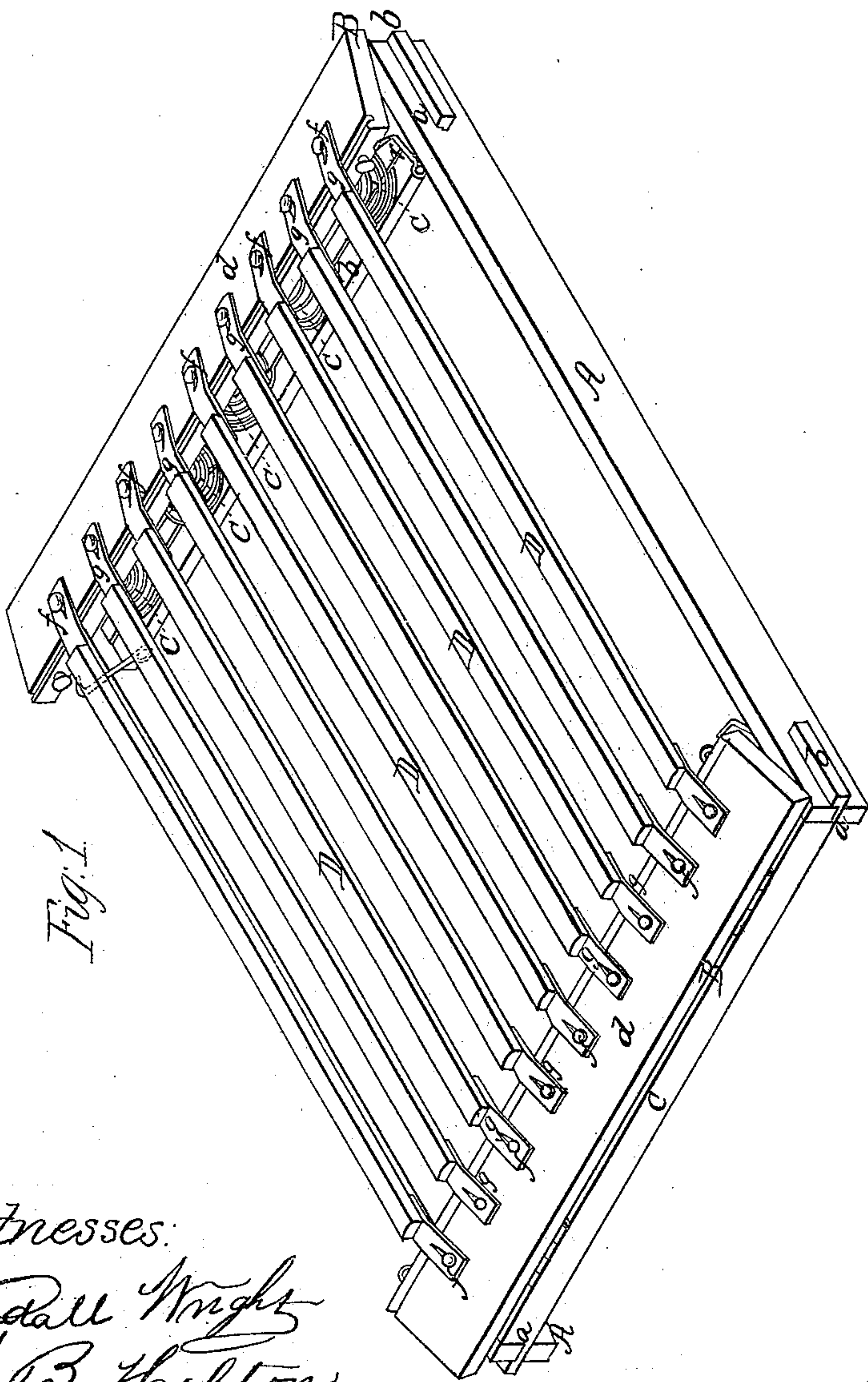


*R. F. Billings,*

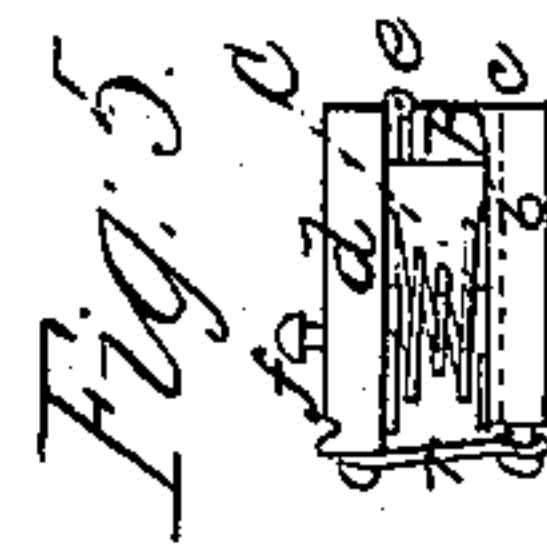
*Bed Bottom,*

*Nº 25,170,*

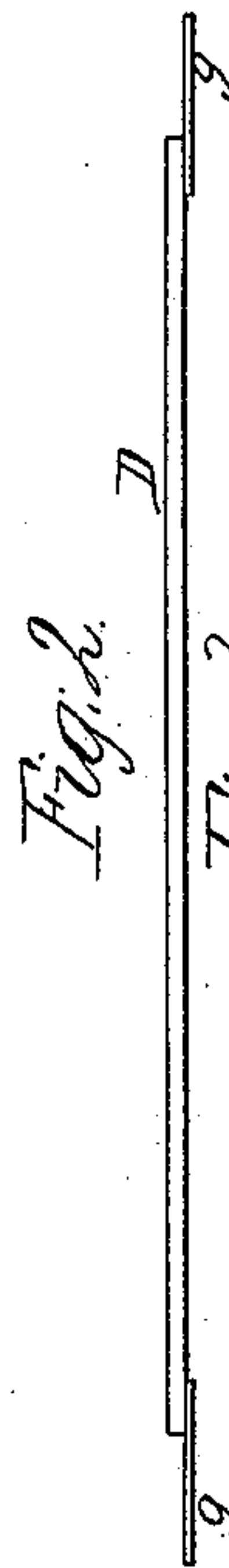
*Patented Aug. 23, 1859.*



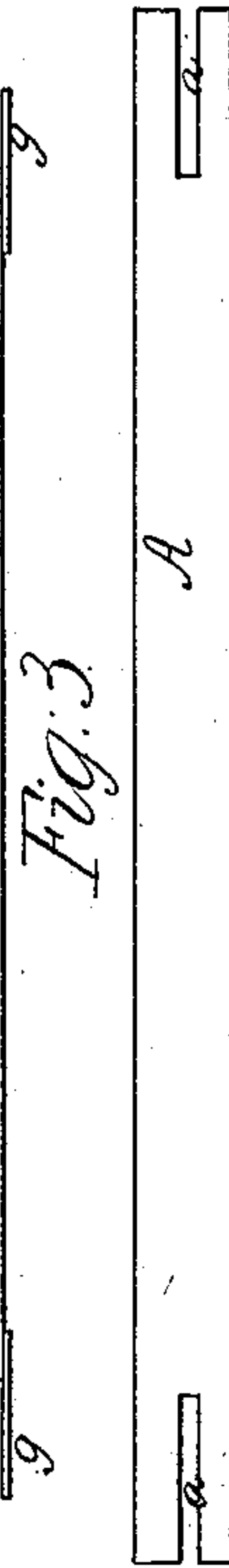
*Fig. 1.*



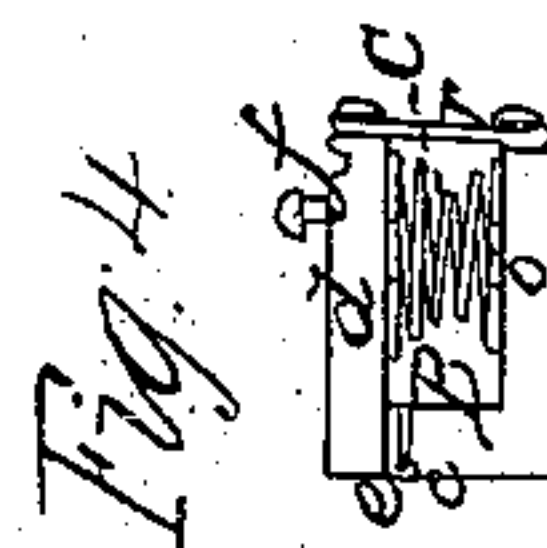
*Fig. 5.*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*

*Witnesses:*  
*Kendall Wright*  
*A. B. Helton*

*Inventor:*  
*R. F. Billings*



# UNITED STATES PATENT OFFICE.

R. F. BILLINGS, OF PORTLAND, MAINE.

## BED-BOTTOM.

Specification of Letters Patent No. 25,170, dated August 23, 1859.

*To all whom it may concern:*

Be it known that I, R. F. BILLINGS, of Portland, in the county of Cumberland and State of Maine, have invented a new and  
5 Improved Spring Bed-Bottom; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in  
10 which—

Figure 1, is a perspective view of my invention. Fig. 2, a detached side view of one of the slats of ditto. Fig. 3, a detached side view of one of the side rails of ditto.  
15 Figs. 4 and 5, end views of the spring boxes of ditto.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in having the bed-  
20 bottom formed of a series of longitudinal slats, the ends of which are attached by straps to the hinged lids of boxes in which spiral springs are placed and on which the lids rest, the ends of the boxes being fitted  
25 in slots in the ends of side rails and retained therein by the slats and the tension of the springs.

The object of the invention is to obtain a durable elastic bed-bottom, and one that  
30 may be readily taken apart and packed within a small compass for convenience and economy in transportation and also to facilitate the thorough cleansing of the same when necessary.

35 To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, A, represent two side rails the ends of which are slotted longitudinally as shown  
40 at *a*, to receive the ends of the lower parts of boxes B, B, as shown in Fig. 1. The boxes B, B, are formed each of a bottom *b*, back *c*, and lid *d*, the lids *d*, being hinged to the backs *c*, as shown at *e*, Figs. 1, 4 and 5. To  
45 the bottom *b*, of each box B, a series of bi-conical spiral springs C, are placed, such as are generally used for upholstery purposes and on these springs C, the lids *d*, rest or bear. To the upper surface of each  
50 lid *d*, and near its inner edge a series of buttons or pins *f*, are attached, and D, represents a series of slats the ends of

which have straps *g*, secured to them, and these straps are fitted on the buttons or pins  
55 *f*, as shown clearly in Fig. 1.

It is designed to have the several parts constructed of wood, the springs C, and straps *g*, of course excepted, and the slats D, should be of such a thickness as to in-  
60 sure a requisite degree of strength with some elasticity.

The boxes B, B, it will be seen are re-  
tained in proper position in the slots *a*, in the side rails A, in consequence of the con-  
65 nection formed between the two boxes B, by the slats D, and the upward pressure of the springs C.

The mattress or bed is laid on the slats D, which have a requisite degree of elas-  
70 ticity in themselves and to which is added the elasticity of the springs C, beneath the lids *d*. The several parts thus disposed or arranged form a very durable and elastic  
75 bottom and by securing down the lids *d*, of the boxes B, by hooks *r*, the slats D, may readily be detached from the lids, the boxes removed from the ends of the side rails  
80 A, A. A large number may therefore be packed within a small compass by the manufacturers for transportation, and in case a bottom while in use becomes infested with  
85 vermin, it may readily be taken apart and the several parts readily scalded, steamed or otherwise acted upon to effect a thorough cleansing.

I do not claim broadly the employment or use of slats and spiral springs to form an elastic bed-bottom irrespective of the ar-  
90 rangement herein shown, whereby such result is obtained and the device also rendered capable of having its parts readily detached and packed in a small compass.

I claim therefore as new and desire to se-  
cure by Letters Patent,

The arrangement and combination of the  
95 side rails A, A, boxes B, B, provided with the springs C, and hinged lids *d*, *d*, and the slats D, attached to the lids *d*, by the straps *g*, substantially as and for the purpose set forth.

R. F. BILLINGS.

Witnesses:

KENDALL WRIGHT,  
A. B. HILTON.