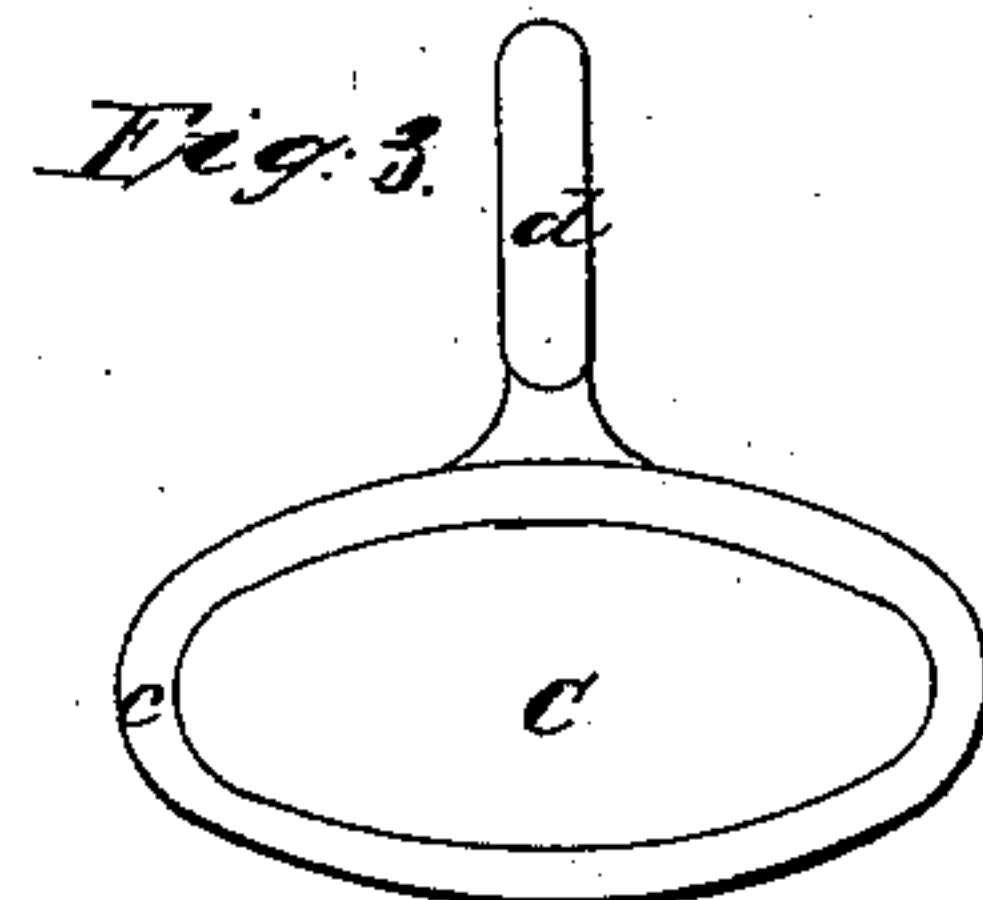
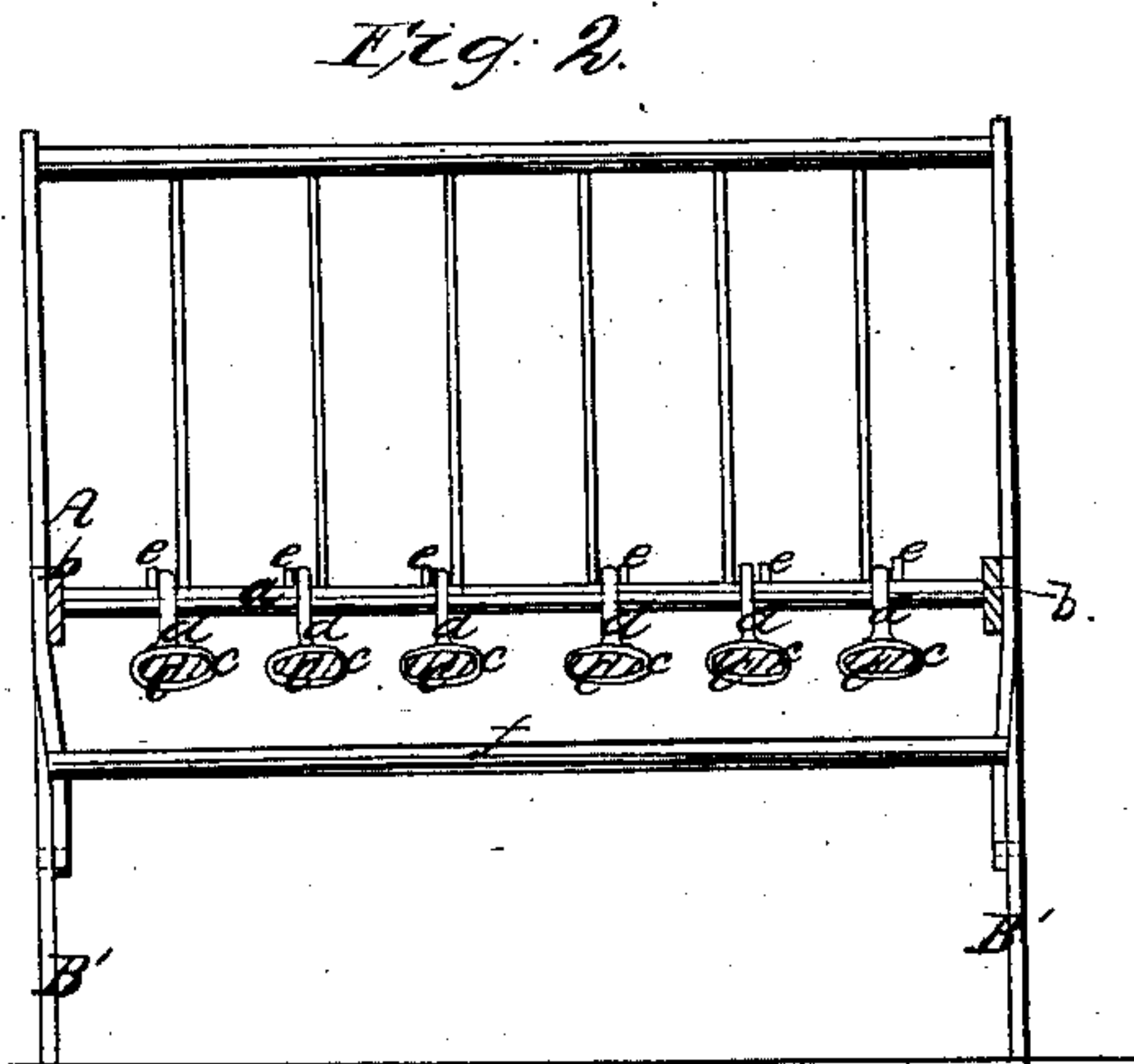
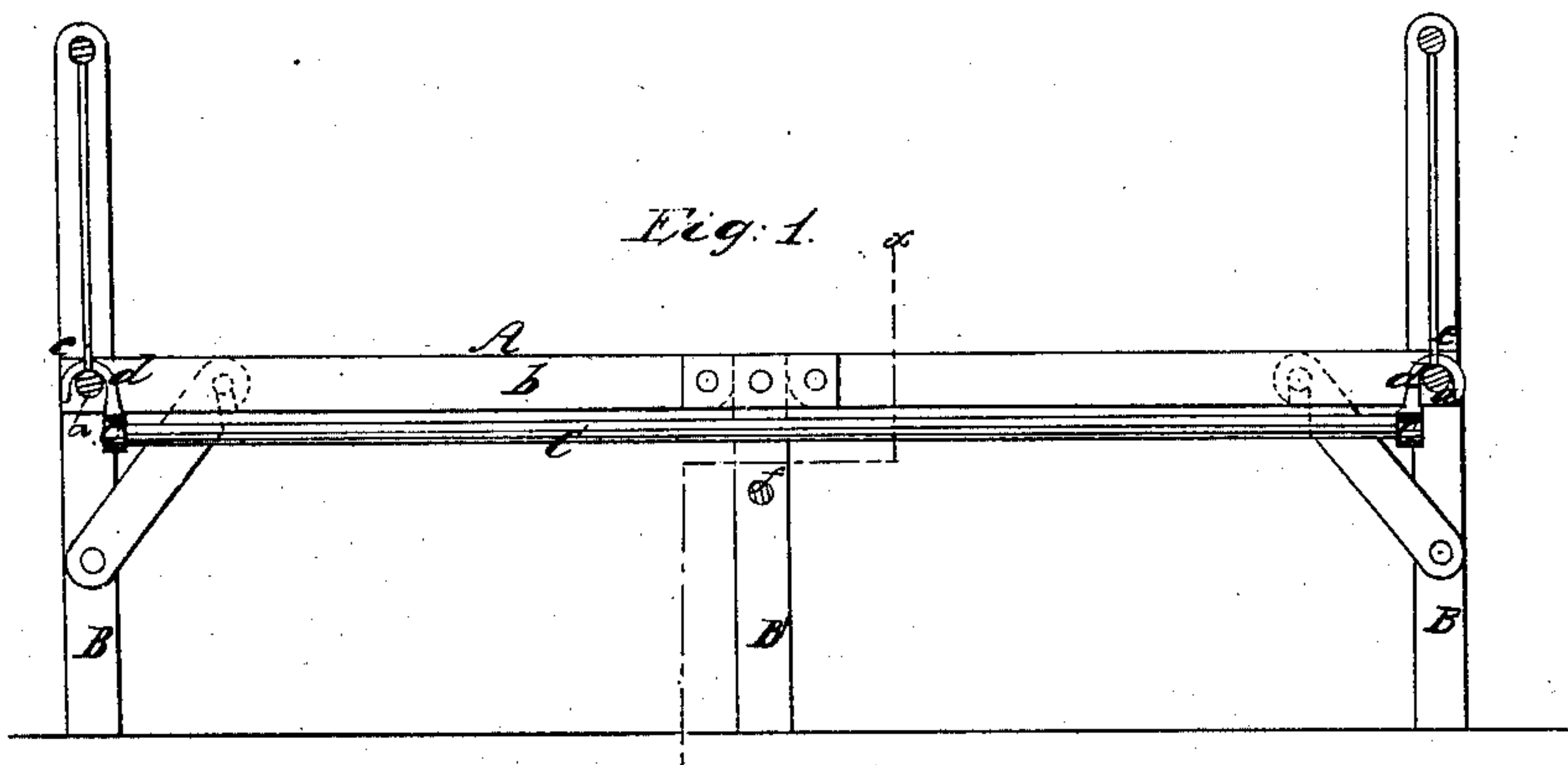


A. C. Grandal

Folding Bedstead,

Patented Feb. 9, 1864.

N^o 41,488.



Witnesses,
Wm. H. Douglas
D. Robertson.

Inventor,
A. C. Grandal

UNITED STATES PATENT OFFICE.

A. C. CRONDAL, OF NEW YORK, N. Y.

IMPROVED SPRING BED-BOTTOM.

Specification forming part of Letters Patent No. 41,488, dated February 9, 1864.

To all whom it may concern:

Be it known that I, A. C. CRONDAL, of the city, county, and State of New York, have invented a new and 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 accompanying drawings, making a part of this specification, in which—

Figure 1 represents a longitudinal vertical section of my invention. Fig. 2 is a transverse vertical section of the same, taken in the plane indicated by the line *xx*, Fig. 1. Fig. 3 is a detached transverse section of one of the slats in a larger scale than the previous figures.

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

To enable those skilled in the art to make and use my invention, I will proceed to describe it.

A represents a bedstead, which may be made of iron or other suitable material. In practice, however, it must be remarked, my slats are best applicable to iron bedsteads. This bedstead is supported at the ends by the legs B and in the middle by the legs B', and the legs B are connected by the end rails, *a*, and the side rails, *b*, in the usual manner.

C are the spring slats, which are made of hickory or other tough and elastic wood, and so shaped that a cross-section of one of them presents the form of an oval or egg, as clearly shown in Fig. 3. By giving this shape to the slats I am enabled to produce a strong, elastic, and durable article, which is not liable to split or lose its elasticity, whereas ordinary square slats are liable to split at the corners and to break in a short time when they are subject to the same use for which my slats are intended.

The ends of each of these slats are fitted

into sleeves *c*, from which hooks *d* project, as clearly shown in the drawings. The sleeves fit tightly to the ends of the slats and serve to protect them from splitting, and the hooks are intended to catch over the end rails of the bedstead. Such hooks and sleeves are cast solid out of malleable iron or other suitable material, and to prevent the hooks from slipping in a lateral direction on the end rails stops *e* may be inserted in said end rails, as clearly shown in Fig. 2 of the drawings. By means of these hooks each slat can be adjusted in its place or removed therefrom entirely independent of the others and with the least possible trouble or loss of time, and the slats preserve their full strength and elasticity.

In order to prevent the slats from being overtaxed, a stop-rail, *f*, is secured between the middle legs, B', and at such a distance below the slats that the latter are allowed to bend down to the full extent of their elasticity, but if a very heavy weight is placed upon them they will be relieved from the strain by the stop-rail. By this arrangement the slats are protected from injury when they are exposed to a very heavy pressure, and I am enabled to produce a bed-bottom which is at once cheap, durable, and very comfortable and convenient for use.

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

The sleeves *c* and hooks *d*, applied to the ends of the egg shaped slats C, and operating in combination with the end rails, *a*, and stop-rail *f*, of the bedstead, in the manner substantially as herein shown and described.

A. COURLANDER CRONDAL.

Witnesses:

D. ROBERTSON,
THOS. S. J. DOUGLAS.