

C. L. Chadeayne,

Bed Bottom.

No. 95,564.

Patented Oct. 5. 1869.

Fig. 1.

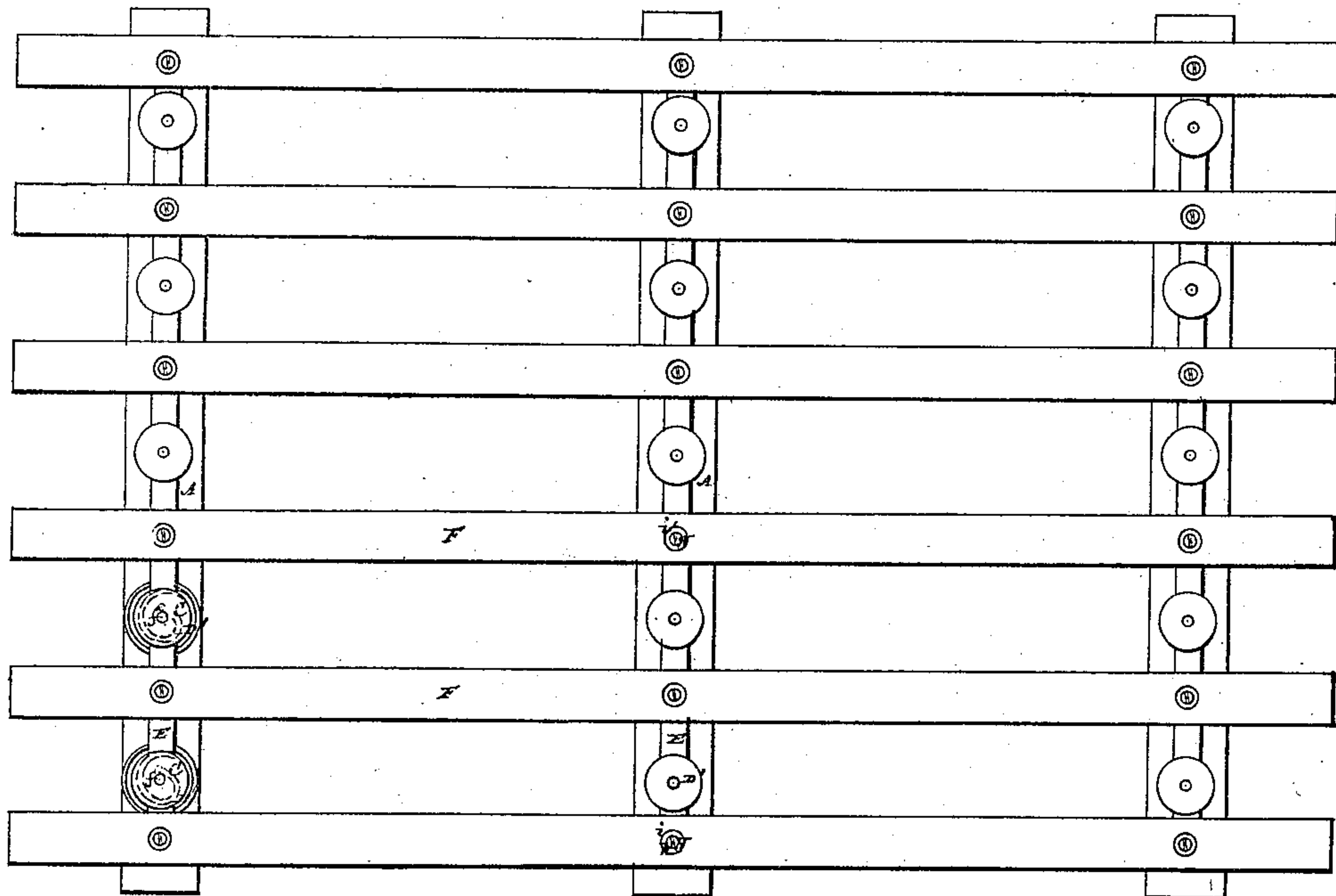


Fig. 5.

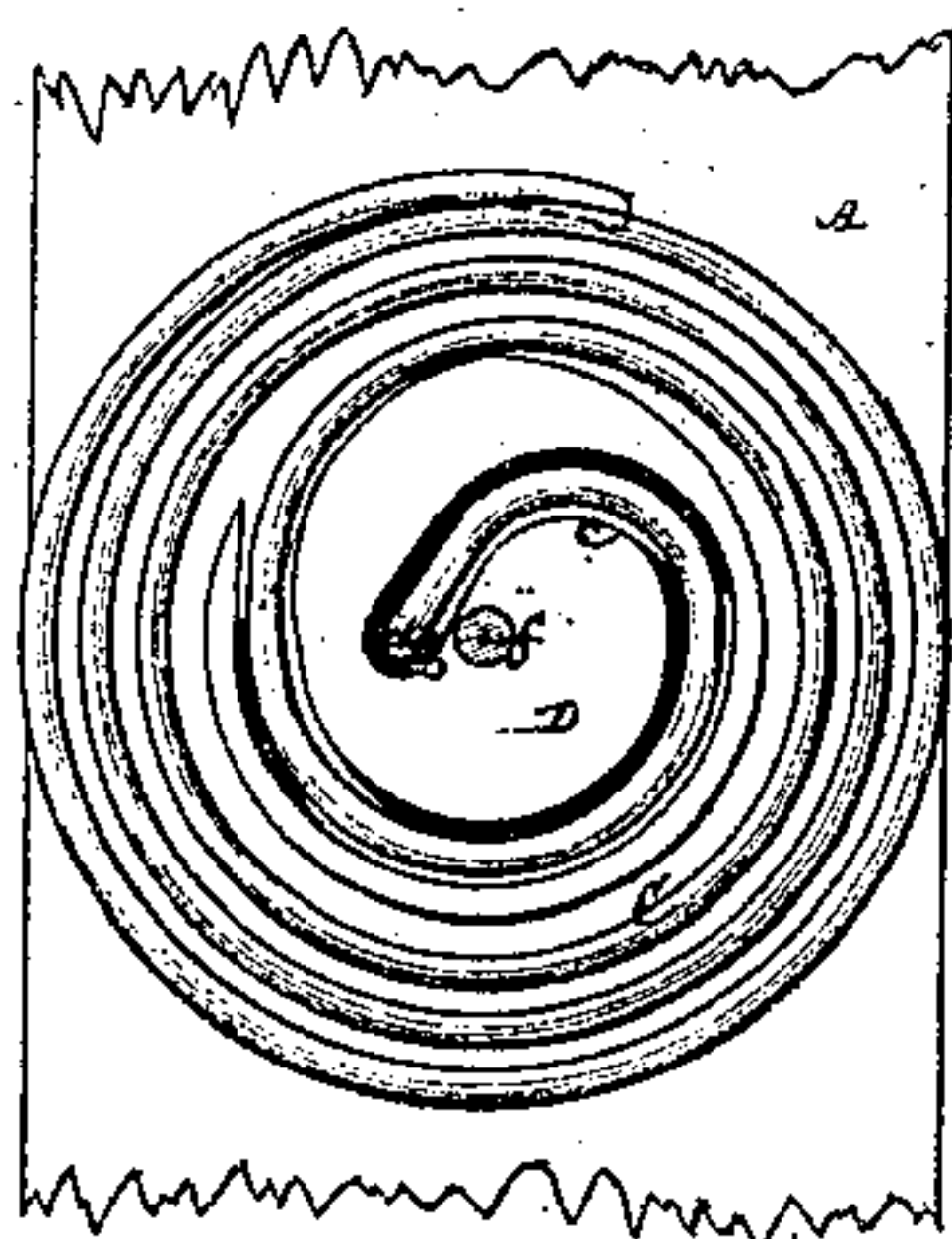
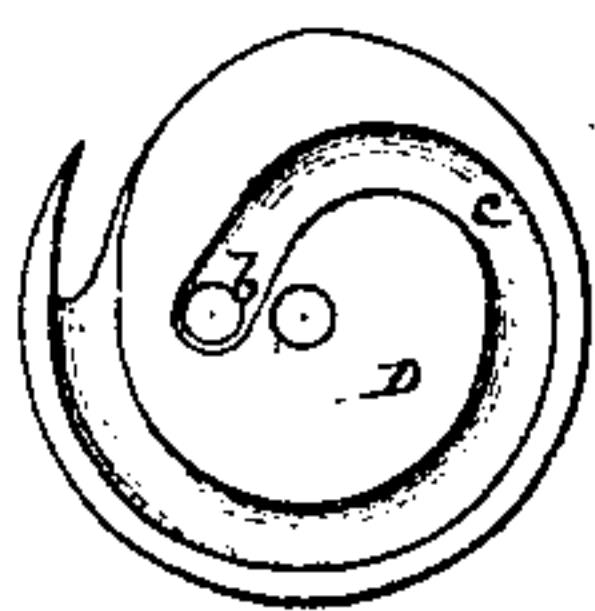


Fig. 4.

Fig. 6.



Fig. 2.

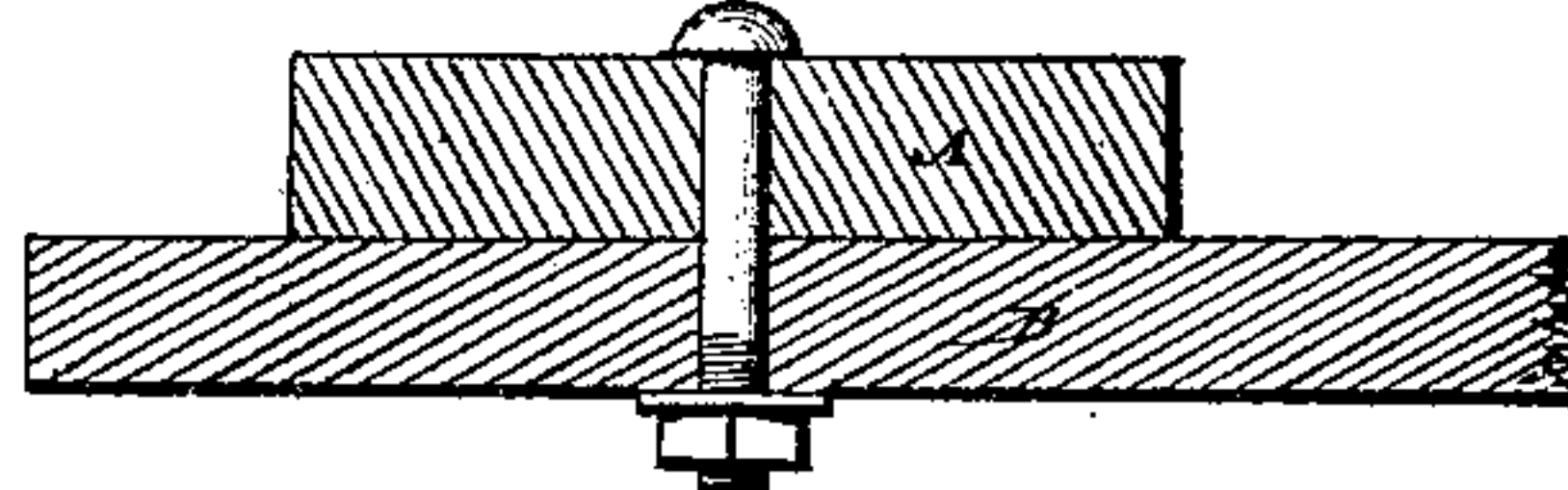
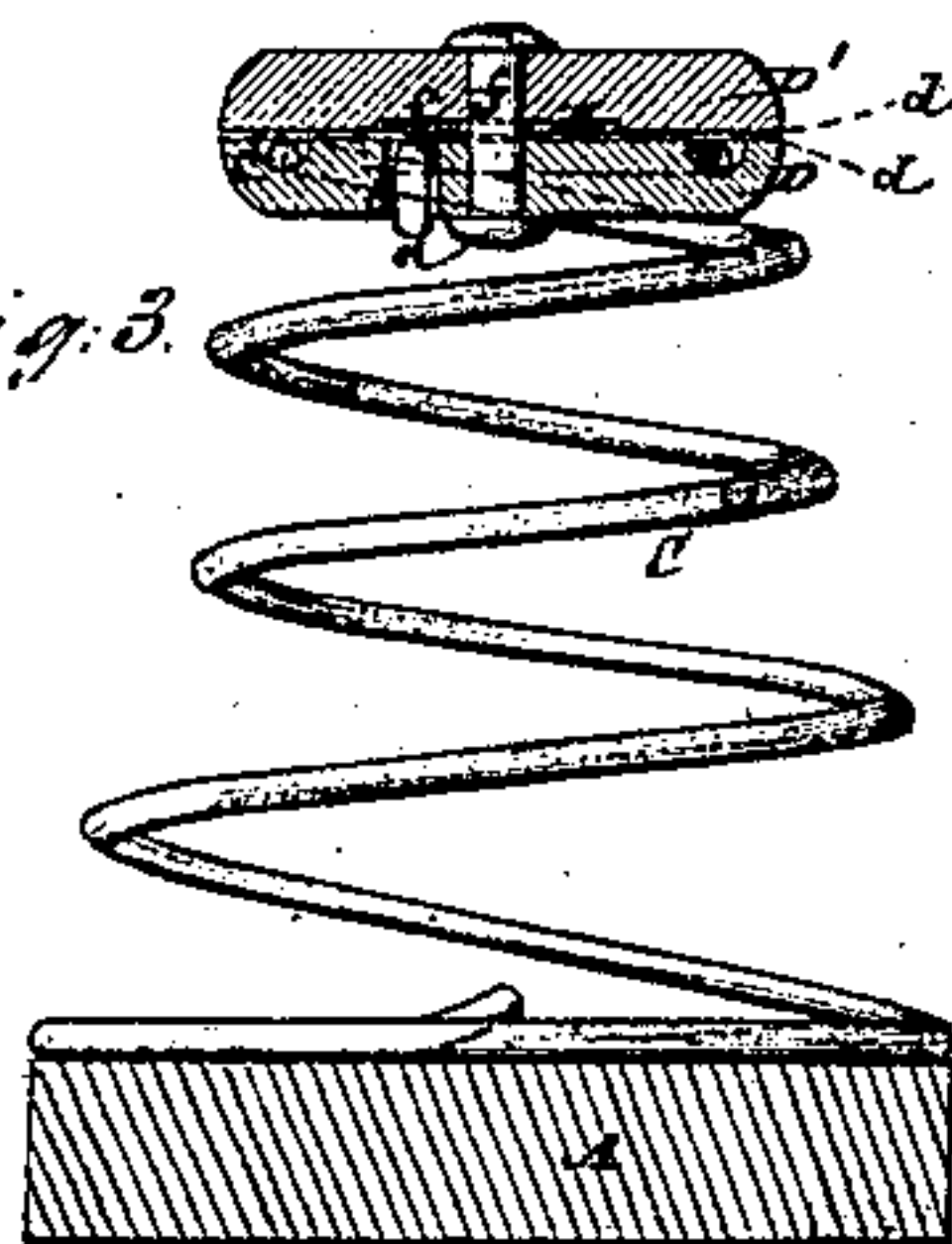


Fig. 3.



Witnesses:

Geo. Hays
R. E. Rabau

Charles Chadeayne

United States Patent Office.

CHARLES L. CHADEAYNE, OF YONKERS, NEW YORK.

Letters Patent No. 95,564, dated October 5, 1869.

IMPROVED SPRING-BED BOTTOM.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES L. CHADEAYNE, of Yonkers, in the county of Westchester, and State of New York, have invented a new and useful Improvement in Spring-Bed Bottoms, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figure 1 represents a plan view of a spring-bed bottom, constructed in accordance with my improvement;

Figure 2, a sectional view of a portion of the lower frame;

Figure 3, a sectional elevation through one of the braces to the lower frame, showing the springs as united by the clamp;

Figure 4, a plan view in part immediately above one of the lower clamping-disks;

Figure 5, a top view of a lower clamping-disk to the springs; and

Figure 6, a longitudinal section through one of the slats in part.

Similar letters of reference indicate corresponding parts.

My improvement has reference to that description of spring-bed bottoms in which the slats are made to rest upon transversely-arranged flat springs, supported or carried by spiral springs that rest upon a lower main frame.

My invention, in this connection, consists in a novel union of the spiral with the transverse flat springs, by means of divided disk-clamps with intervening packing, the lower half or portion of the clamps lying under the cross flat springs, and being recessed to form a bearing for the spiral springs, while the upper half or portion lies upon the flat springs, and is secured by a rivet or screw, passing through the latter, to the under half or portion of said clamp.

By the use of this clamp, with its intervening packing or packings, a much firmer and steadier bearing is established for the bearing of the flat transverse springs upon the spiral ones, and all noise or rattle consequent upon the friction of the springs, and which has heretofore been so objectionable a feature in spring-bed bottoms of the character described, is avoided.

Referring to the accompanying drawing—

A A represent the cross-braces of the lower main frame B.

Upon these cross-braces, at suitable distances apart, are located the spiral springs C.

The upper ends of these springs are bent down, as at *a*, and the leg thus formed caused to pass through a hole, *b*, made in a lower clamping-disk, D, which has a groove, *c*, formed in its upper surface to receive

the top coil of said spring, that thus has a firm or steady bearing against it.

The several spiral springs C, having been thus entered within and fitted to their respective lower clamping-disks D, a paper or other suitable soft packing-piece, *d*, is laid upon each of said disks, over the coil of the spring C, embedded therein, upon which packings the transverse flat springs E of the bed-bottom are made to rest.

Fitting over the clamping-disks D, so as to hold the springs E between them, are corresponding disks, D', having paper or other suitable soft packing-pieces, *d'*, arranged between such upper disks and said springs E, so that the latter are held between the two soft packings *d d'*.

Such upper disks, D', it is preferred to form with recesses, *e*, on their under side, to give them clip or hold on the springs E, and prevent the clamps, as formed by the disks D and D', from turning.

Rivets, *f*, pass through the disks D D', springs E, and packings *d d'*, to establish the clamp and union of the spiral with the transverse flat springs.

The slats F that occupy an intermediate position to the spiral springs, I prefer to connect with the flat springs E, by means of screws *g*, resting on copper washers *h*, which latter and the heads of the screws are let into recesses, *i*, made in the slats, the bodies of the screws passing through the slats and through suitably-burred holes in the springs E, or nuts may be fitted on to the screws below said springs. Rivets may be substituted for these screws *g* if desired.

A spring-bed bottom thus constructed will be found durable, free from rattle or noise of the spiral with the transverse springs, may be packed for transportation in a small compass, and dispenses with the use of flexible straps to hold the slats at suitable distances apart.

The clamps, as formed by the disks D D', also give a much steadier action to the springs, without impairing their elasticity.

What is here claimed, and desired to be secured by Letters Patent, is—

The combination, with the slats F, the transverse flat springs E, and the spiral springs C, arranged in relation to each other as described, of the spirally-grooved lower clamping-disk D and upper disk D', with their intervening packing or packings *d d'*, substantially as and for the purpose or purposes herein set forth.

CHARLES L. CHADEAYNE.

Witnesses:

FRED. HAYNER,
HENRY PALMER.