(No Model.)

J. J. McCORMACK.

SPRING BED.

No. 270,453. Patented Jan. 9, 1883.

Fig. 1.

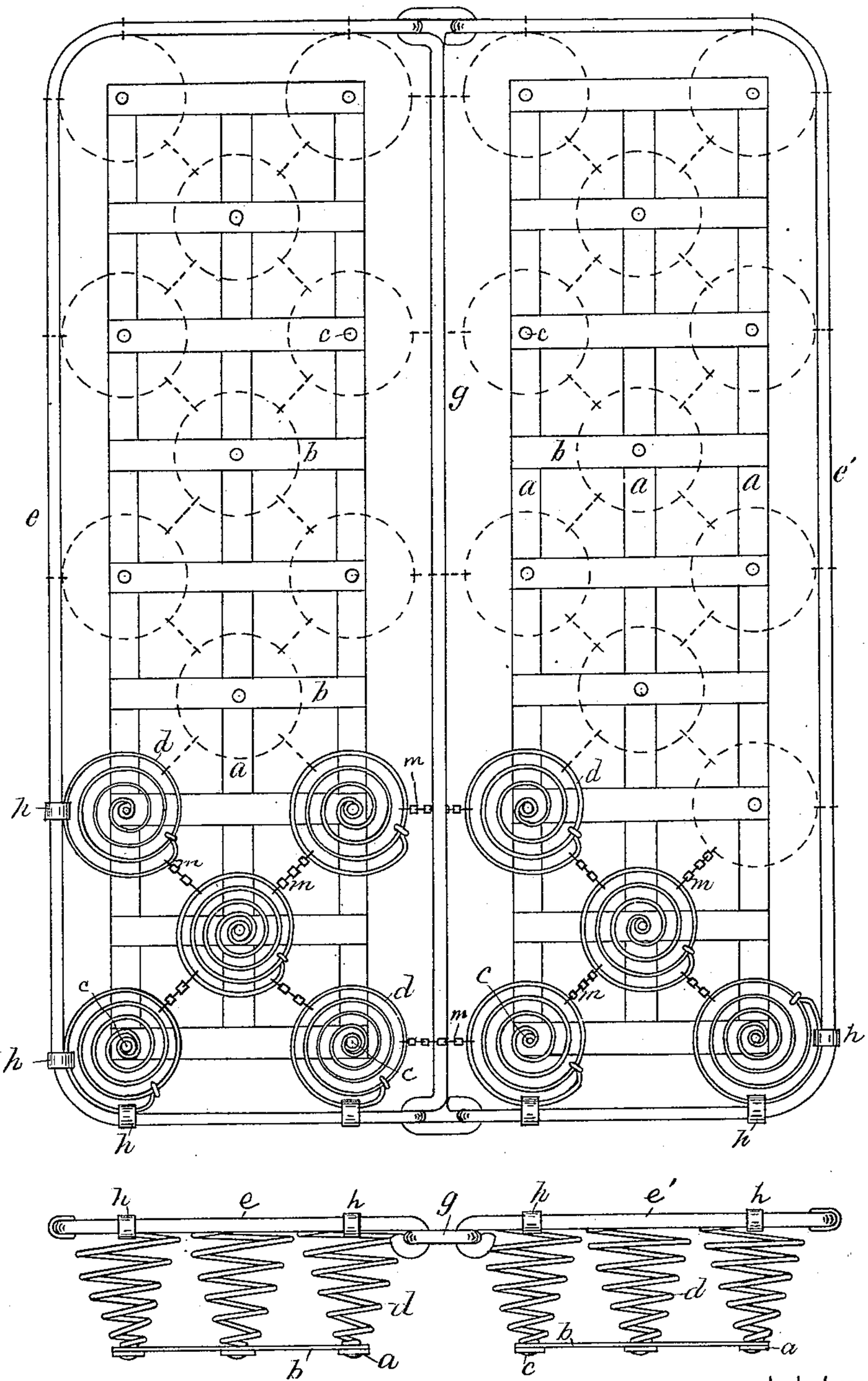

Fig. 2.

WITNESSES

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JAMES J. McCORMACK, OF BOSTON, MASSACHUSETTS.

SPRING-BED.

SPECIFICATION forming part of Letters Patent No. 270,453, dated January 9, 1883.

Application filed December 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES J. McCORMACK, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Spring-Beds, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to that class of spring-bed which is adapted to be folded longitudinally, and has for its object to keep the bed from sagging at its center and to strengthen the frame.

My improved bed is composed of two metal frames having loops or eyes which are connected with and so as to turn on or with relation to a longitudinal rod placed at the center of the bed. The conical springs employed have their small ends attached by rivets to iron bands crossed as shown, and the upper ends of these springs which are nearest the frame of the bed-bottom are connected with the said frame by metal clamps, and the remaining springs of the bed-bottom are joined with the springs referred to and with each other by means of flexible connections, preferably chains, and the chains connecting the central rows of springs are crossed over and under the longitudinal rod or central brace referred to, the chains above the rod being thus made effective to depress the rod uniformly with the frame, while those chains under the rod prevent the latter from being bent outward when the bed is folded centrally. The rod referred to is a yielding rod.

Figure 1 represents in top view a spring-bed containing my invention, and Fig. 2 an end view thereof.

The under side of the bed-bottom is composed of a series of long and short metal bands, *a b*, crossed and riveted together at their crossing-points. At each crossing-point I attach by a suitable rivet, *c*, the lower end of a conical spring, *d*.

The upper part of the bed-bottom is composed of two metal frames, *e e'*, bent to form side and end portions. These frames, common to other bed-bottoms, have, as heretofore made, been connected together by loops or eyes formed at their ends; but such a bed has been found to lack strength at its center and to sag objectionably, and to overcome such difficulties I have provided the bed-bottom with the longitudinal rod or brace *g*, and, as herein shown, I have provided it at each end with a long eye or loop, which is engaged by eyes of the frames *e e'*, as shown in the drawings. The upper ends of these springs nearest the frames *e e'* are connected with the frames by metal clamps *h*, and the said springs are in turn connected with other springs of the bed-bottom by flexible connections or chains *m*. The connections or chains which unite the two most central rows of springs are made to cross-alternately over and under the longitudinal rod or brace *g*, as shown in the drawings. The chains above the rod cause it to descend uniformly with the frames *e e'*. When the bed is folded the chains which pass under the said rod act to prevent the same from being bent outward. This rod materially strengthens the bed-bottom, prevents the sagging of the mattress thereon, increases the strength and durability of the bed-bottom, and when folded makes a stiffer and stronger package. In the drawings I have not deemed it necessary to show the entire number of springs to be employed, but have represented some of the said springs and chains in dotted lines. I do not broadly claim a metal frame and wire springs.

I claim—

1. As an improved article of manufacture, a bed-bottom composed of a series of springs, crossed bands to support them, two frames, *e e'*, to which some of the said springs are clamped, flexible connections to unite the upper ends of adjacent springs, and a longitudinal rod or brace, *g*, with which the said frames *e e'* are connected, all substantially as shown and described.

2. The series of crossed bands, their attached springs, chains, or connections to unite them, the frame *e e'*, connected to the springs adjacent to them by clamps, and the longitudinal brace or rod *g*, the chain or connection passing over and under the said rod, substantially as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES J. McCORMACK.

Witnesses:

G. W. GREGORY,

B. J. NOYES.