

C. O. BRAGE.
 SPRING CONSTRUCTION.
 APPLICATION FILED APR. 17, 1908.

898,429.

Patented Sept. 15, 1908.

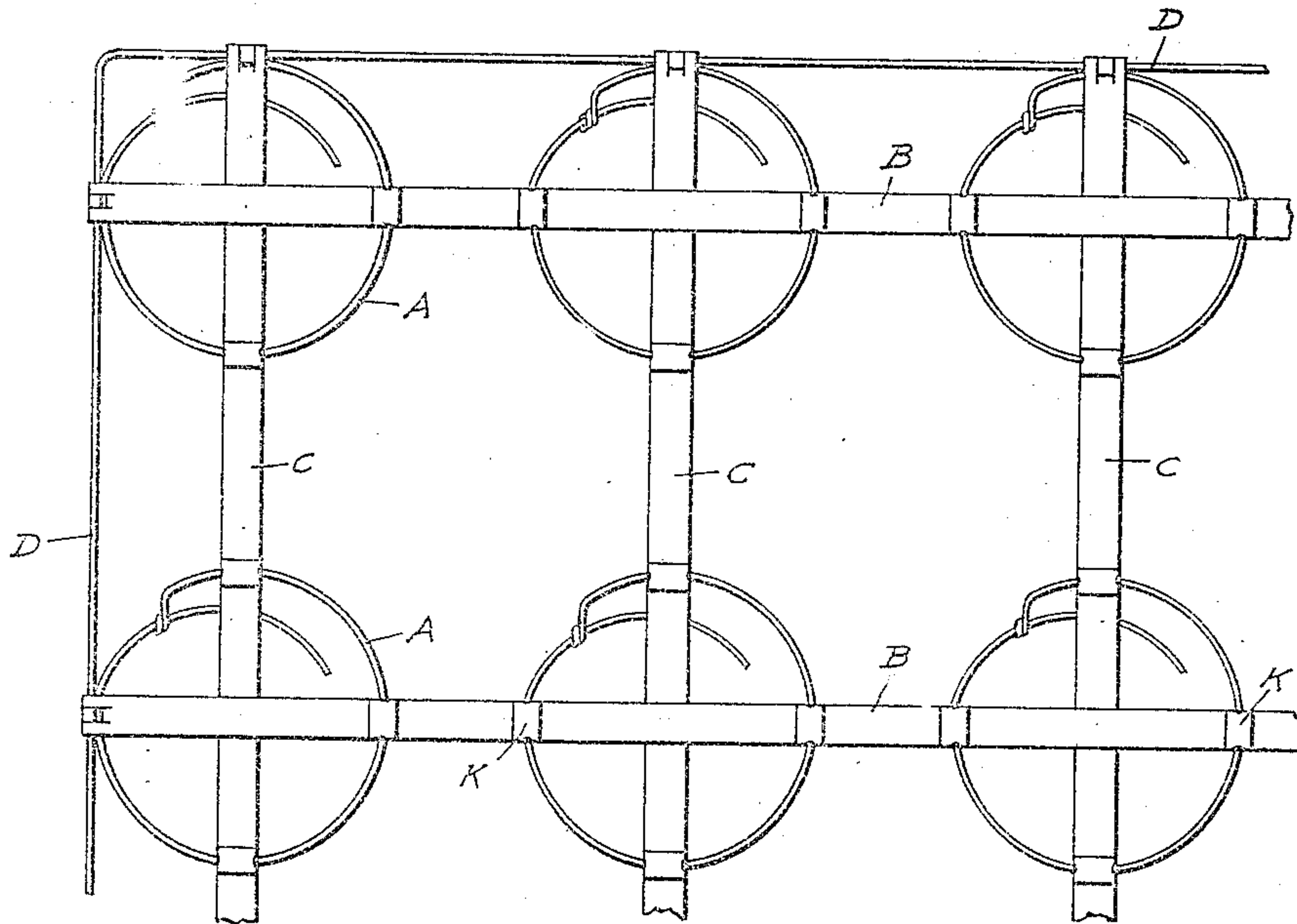


Fig. 1.

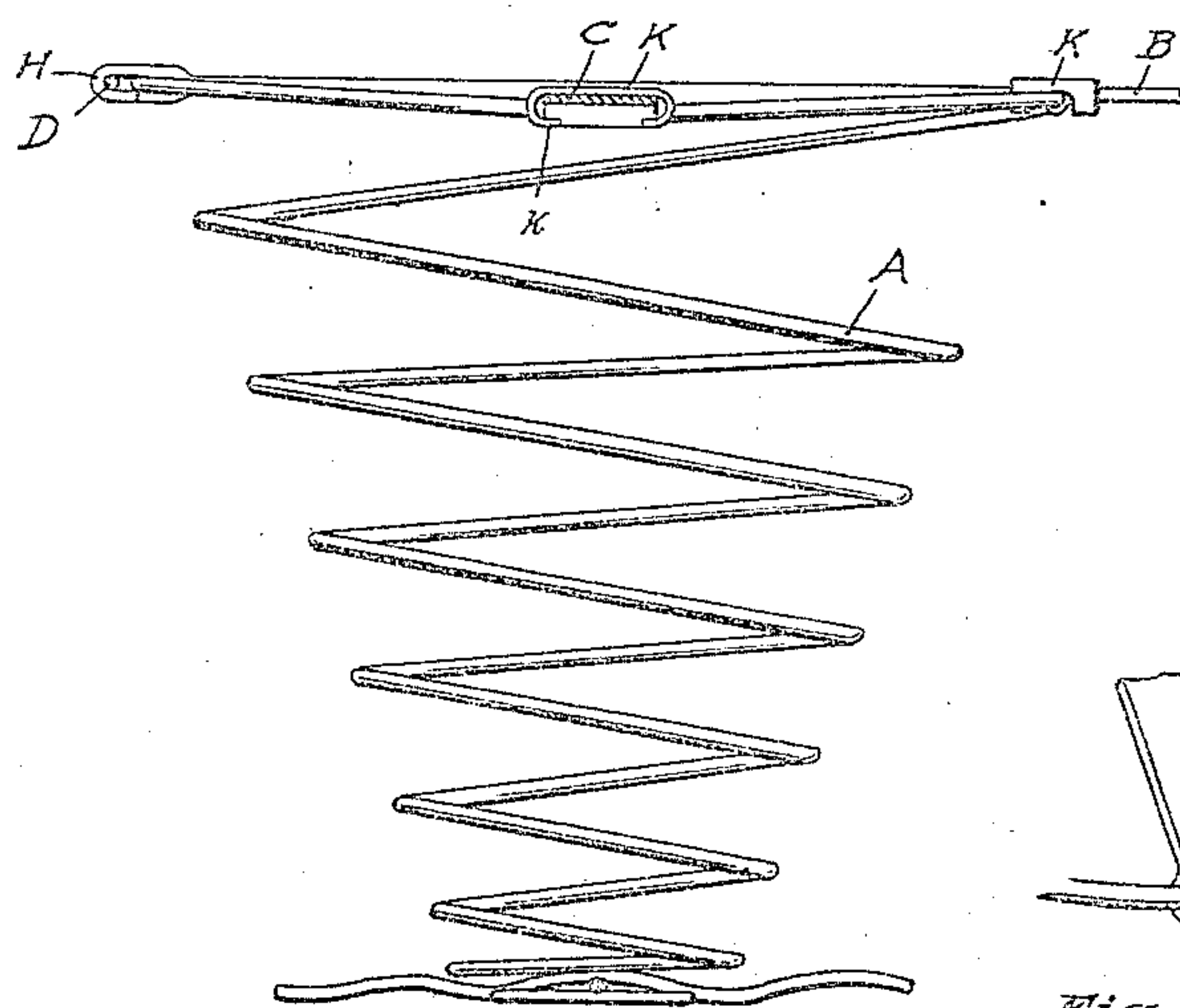


Fig. 2.

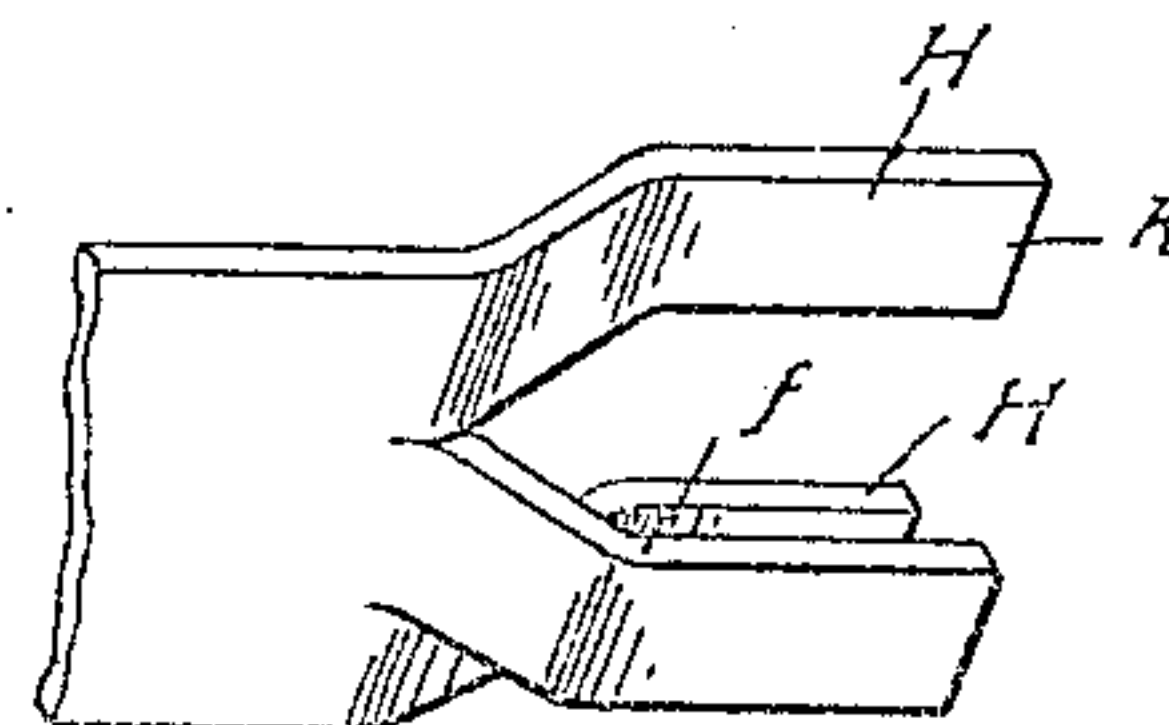


Fig. 4.

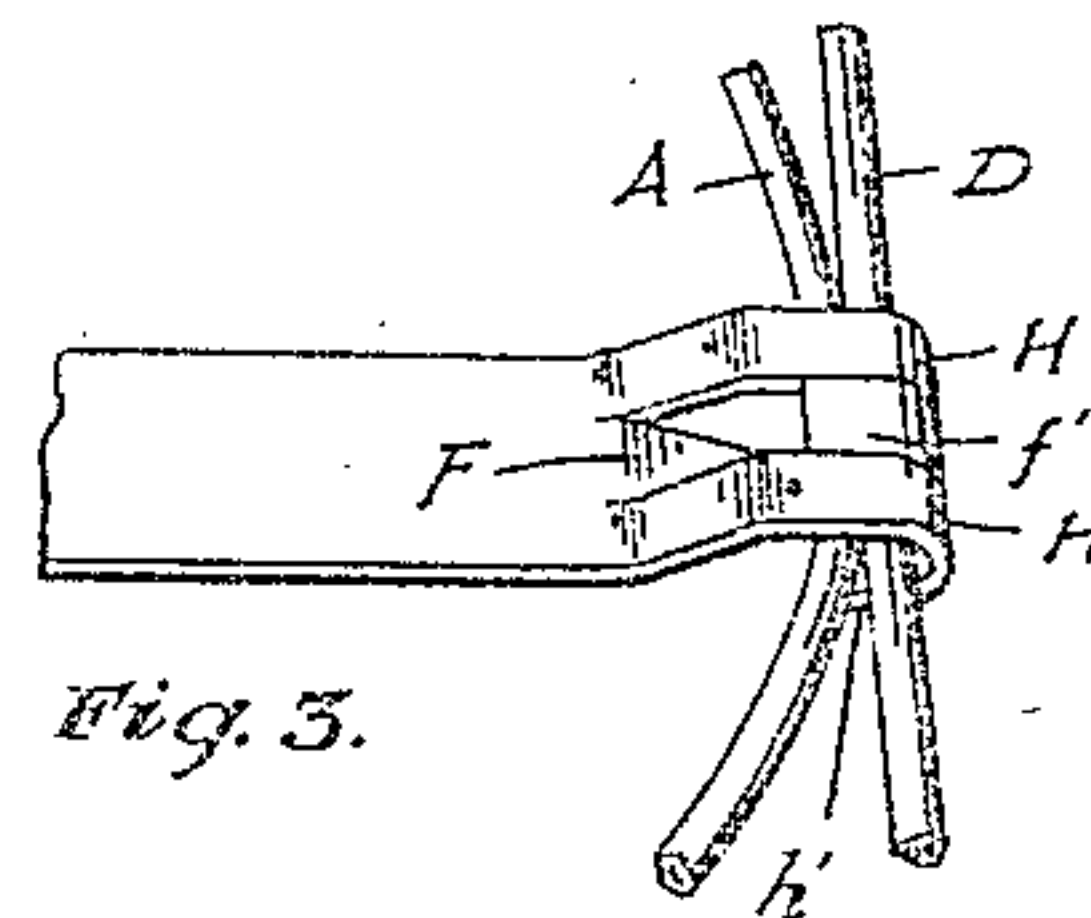


Fig. 3.

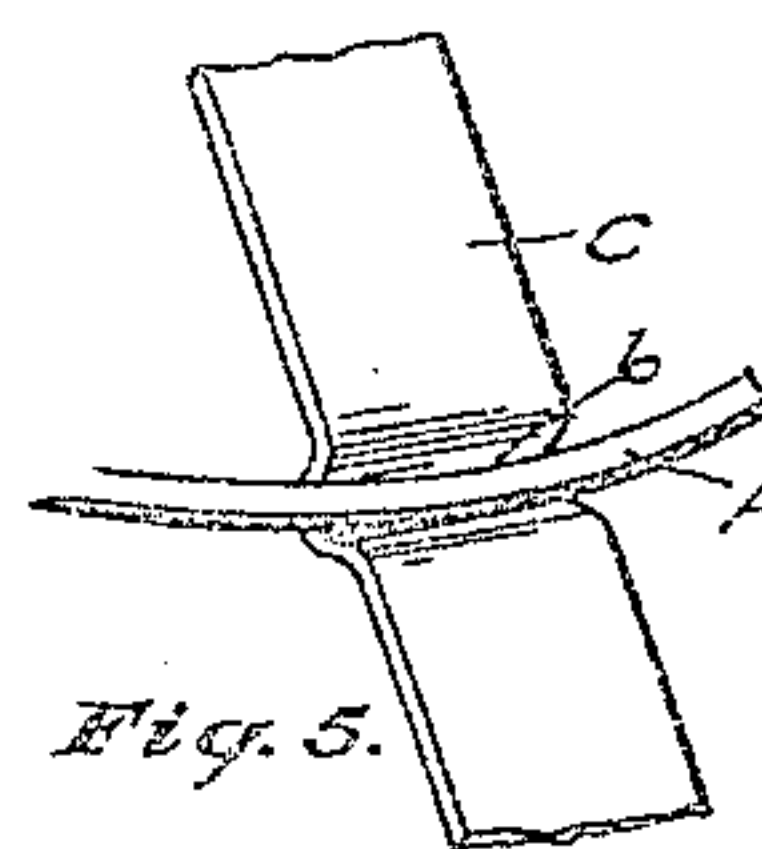


Fig. 5.

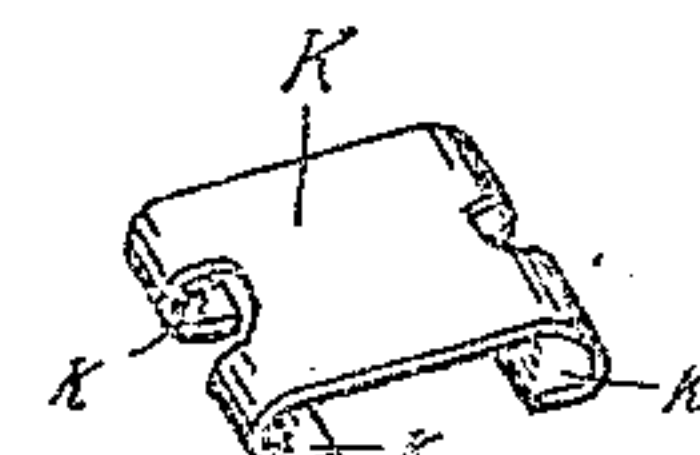


Fig. 6.

Witnesses:

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UNITED STATES PATENT OFFICE.

CARL O. BRAGE, OF ST. JOSEPH, MISSOURI.

SPRING CONSTRUCTION.

No. 898,429.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed April 17, 1908. Serial No. 427,589.

To all whom it may concern:

Be it known that I, CARL O. BRAGE, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented certain new and useful Improvements in Spring Construction; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to a spring construction especially adapted to couches, davenport, sofa beds, divans and settees.

The object I seek is to provide a mechanism by which the parts shall be held rigidly together and that will insure great flexibility and durability.

I attain my object by the mechanism illustrated in the accompanying drawings, in which:—

Figure 1 is a top view of said spring construction; Fig. 2 is a sectional elevation of a spring and bands thereon; Fig. 3 is a perspective detail of the end of a band and a coil and edge wire seated in the fingers thereof; Fig. 4 is a perspective detail of such band, broken away, showing one of its divided ends or fingers as seen from underneath before forming engagement with a coil or edge wire; Fig. 5 is a perspective detail of a band, broken away at both ends, showing one of the valleys therein and a section of coil seated in said valley, and Fig. 6 is a clip adapted to form engagement with a band over such valley thereby holding the coil spring in position.

Similar letters refer to similar parts in the several views.

In the drawing A A—are the springs, B B—a plurality of metal bands parallel with one another extending from end to end of the device and C C—are a plurality of cross bands extending parallel with one another from side to side of the device.

D is an edge wire which is set on a hori-

zontal with the top coils of the springs. The end of bands B B—and cross bands C C—are stamped out longitudinally, as shown in Figs. 1, 3 and 4, forming at each end digits or fingers F and H H; the central finger, F, is first bent downward at its shank, at an acute angle, thence horizontally outward, thereby forming a seat *f* to receive the top coil of an outside spring A; the end of said finger is then bent upward and rearward around the outside and over edge wire D thus forming a clasp *f'* to retain said edge wire and top coil of the spring in rigid contact. Fingers H H are each bent upward at their shanks at a corresponding acute angle, thence horizontally outward thus forming opposite seats *h h* for said top coil, the coil being thus seated from both top and bottom; the ends of said fingers are then bent downward and rearward around the outside and underneath edge wire D, thus forming clasps *h' h'* to assist clasp *f'* in holding the edge wire and coil spring, side by side, in immovable position. At all other points where the bands and top coils intersect, the bands are provided with valleys forming seats *b b*; these valleys are curved to correspond with the curve of the top coils of the springs which they are adapted to receive. In order to prevent such coils springing out of said seats a clip K is provided having bifurcated clamp ends *k k* to clasp underneath the edges of the band at the outsides of the bottom of said seat *b*: the clip is thus held in rigid position on the band and the coil is held immovable in seat *b*.

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

In a spring construction the combination with an edge wire, a plurality of spiral springs, and metal bands at the tops of said springs and intersecting each other at the center of each spring, of curved valleys adapted to receive the top coil of a spring at four opposite points, clips having bifurcated ends adapted to clasp underneath the edges of a band at the conjunction of the sides of the valley and band, to hold said coil of the spring in position, a central finger at each end of each band

having an acute angle in which to seat from beneath the top coil of an outer spring, the finger tip clamping said edge wire in position on a line precisely horizontal with the band, and fingers at the sides of said central finger having acute angles to seat the edge wire from above, the finger tips around said wire clamping it against the outer side of said coil in an exact horizontal with said coil and band, substantially as shown and set forth. - 10
In testimony whereof, I affix my signature, in presence of two witnesses.

CARL O. BRAGE.

Witnesses:

H. C. VARNER,
EVANGELINE O. GIBBONS.