

(No Model.)

H. H. KELLY.
ORNAMENTAL CHAIN LINK.

No. 341,580.

Patented May 11, 1886.

fig. 1.

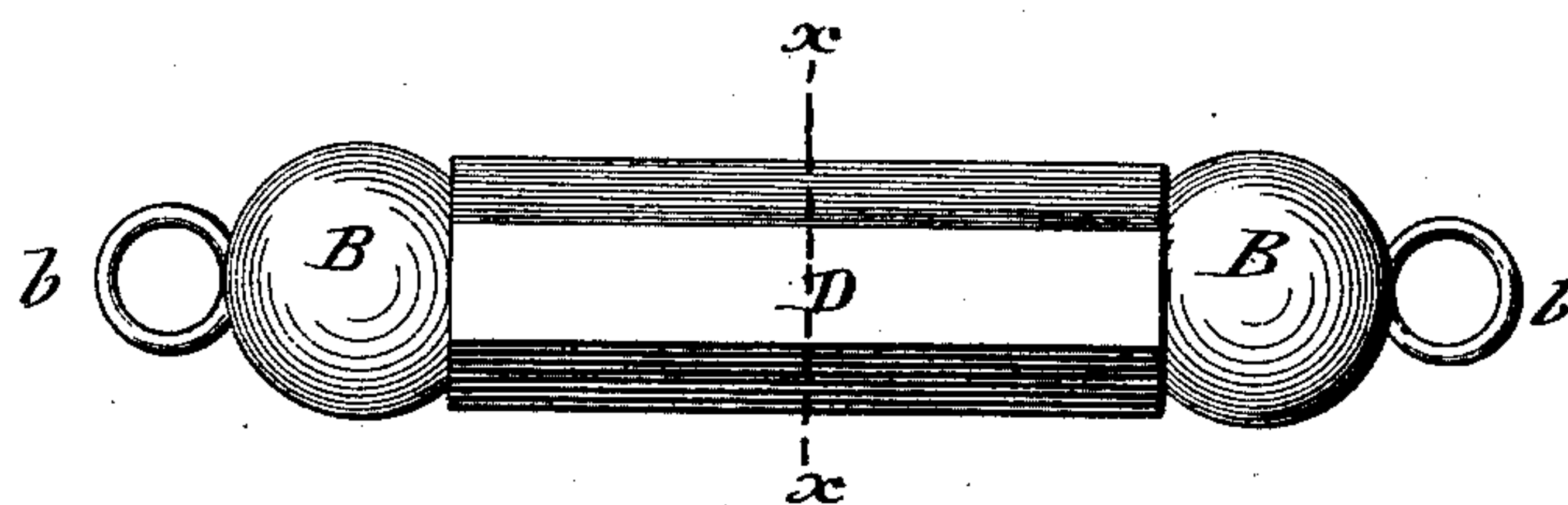


fig. 5.

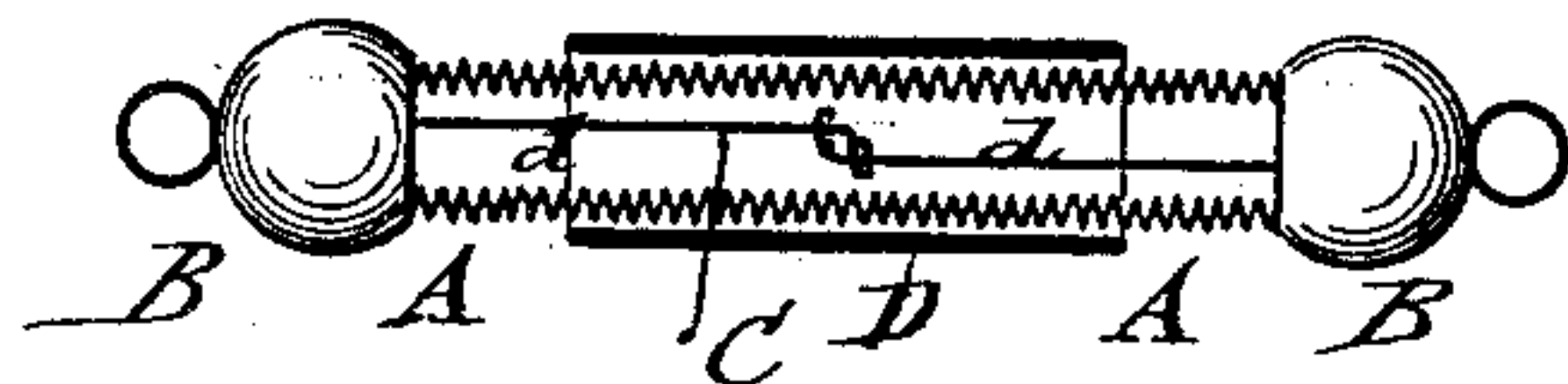


fig. 2.

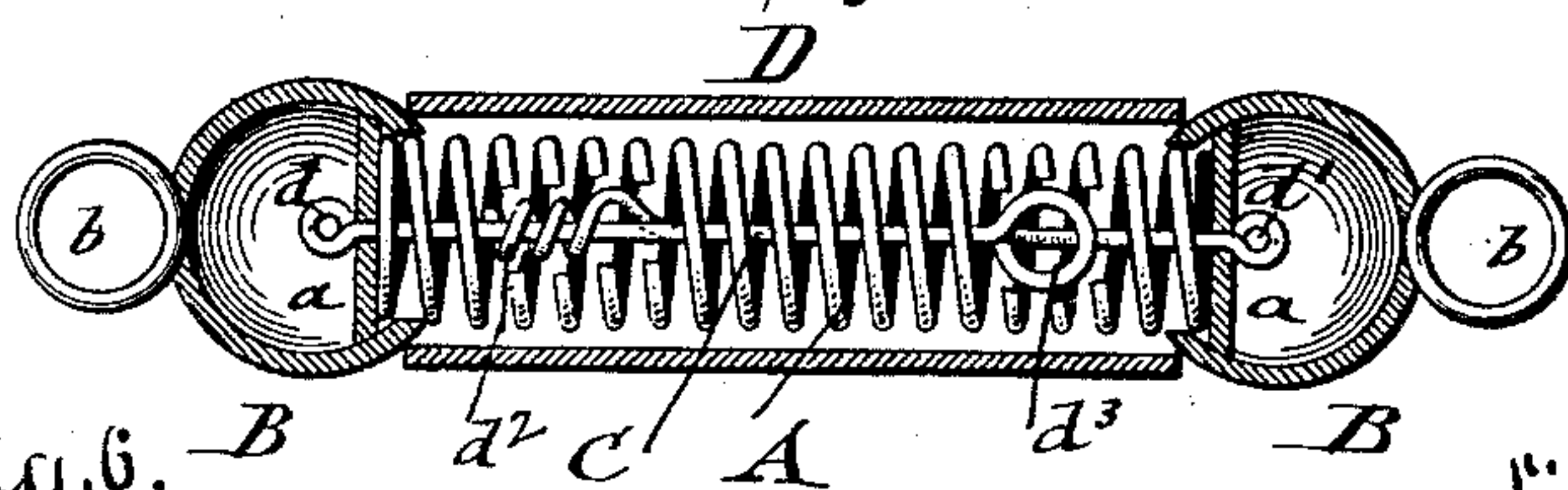


fig. 6.

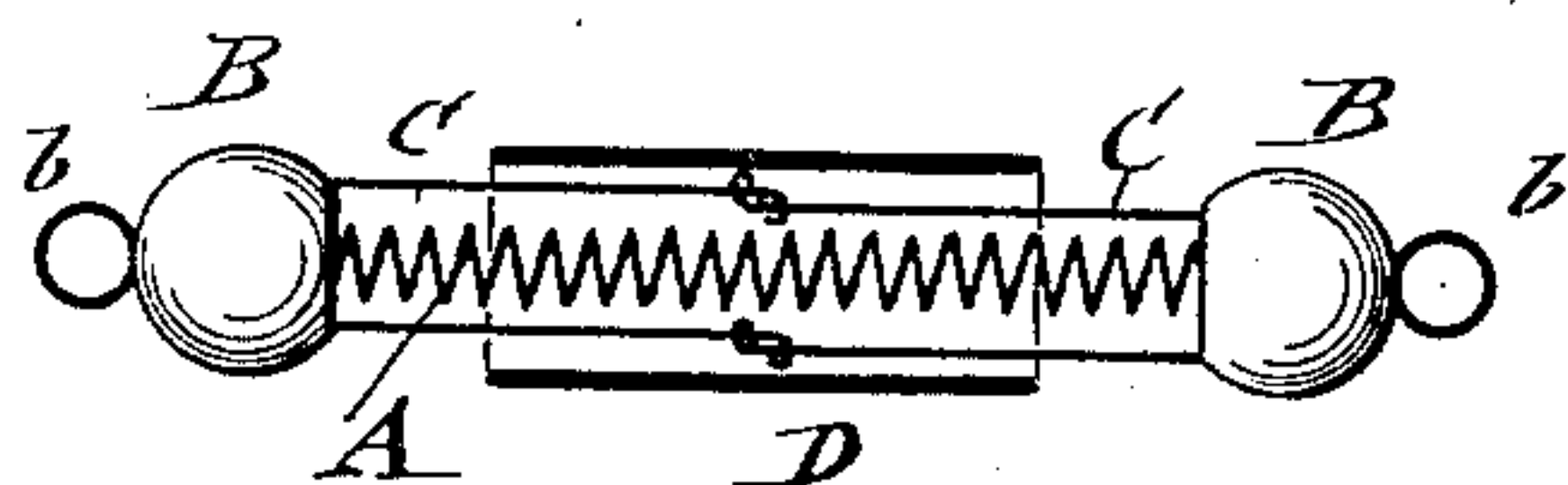


fig. 7.

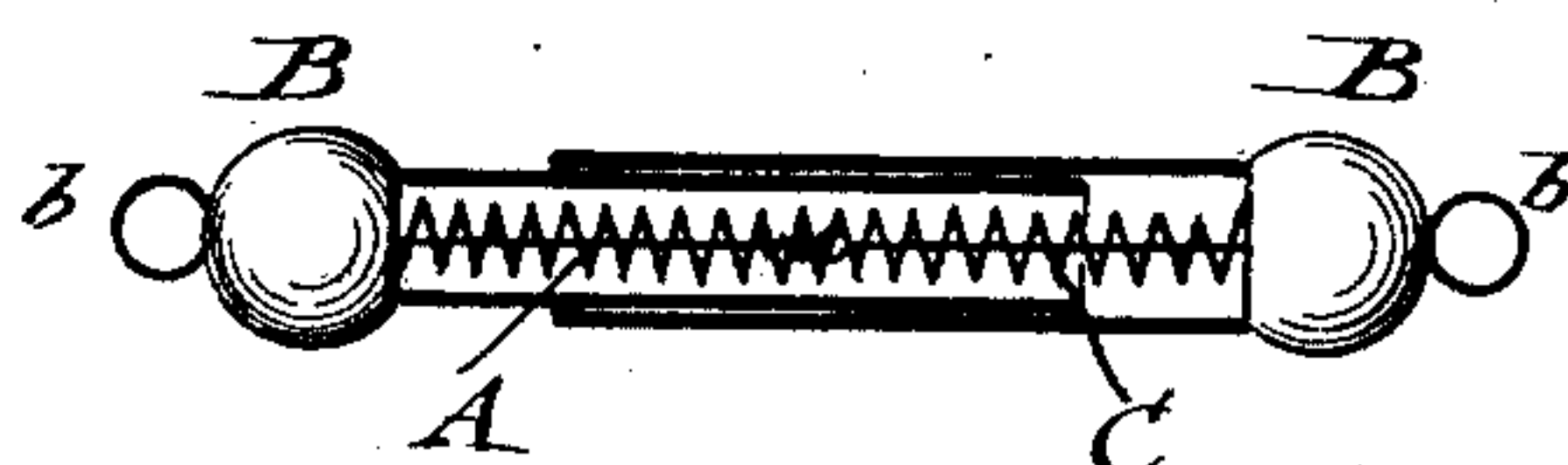


fig. 3.

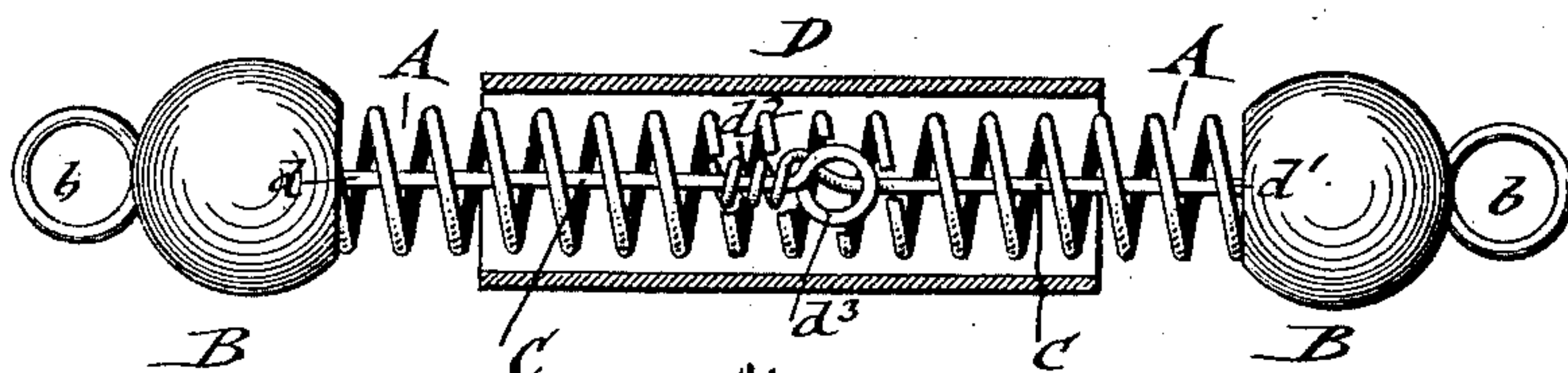
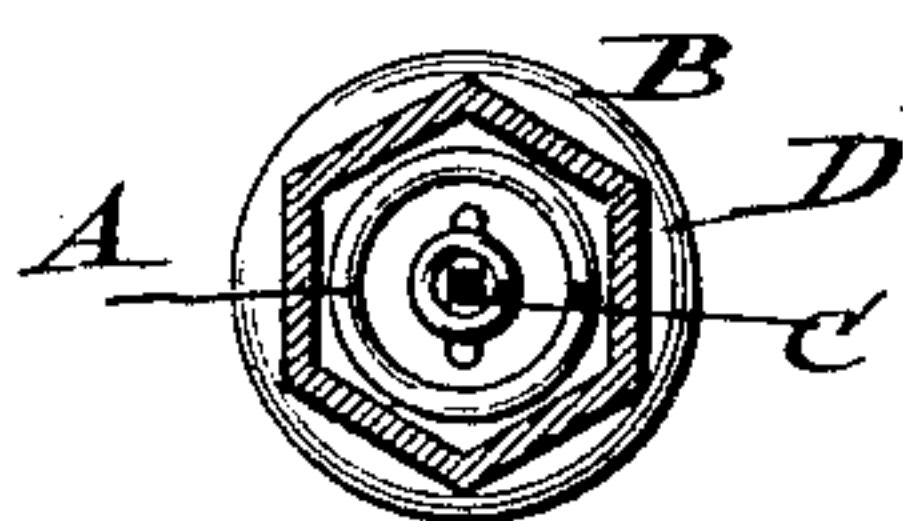


fig. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY H. KELLY, OF ATTLEBOROUGH FALLS, MASSACHUSETTS, ASSIGNOR
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ORNAMENTAL CHAIN-LINK.

SPECIFICATION forming part of Letters Patent No. 341,580, dated May 11, 1886.

Application filed October 1, 1885. Serial No. 178,687. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. KELLY, of Attleborough Falls, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Ornamental Chain-Links, of which the following is a specification.

This invention relates to an ornamental chain-link of that class known as "stretcher-links," by means of which a chain made of such links can be extended to a certain degree without breaking or tearing the garments.

In the accompanying drawings, Figure 1 represents a side elevation of my improved ornamental chain-link. Figs. 2 and 3 are vertical longitudinal sections of the link, showing it respectively in contracted and extended state. Fig. 4 is a vertical transverse section of the same on line *x x*, Fig. 1; and Figs. 5, 6, and 7 are different modifications of the link.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a spiral spring or springs, the ends of which are soldered or otherwise attached to disks *a*. The disks *a a* are again attached to the interior of ornamental heads B B, which are provided with eyes *b b*, by which the connection with the adjoining links of the chain is made. The heads B B are connected by an extensible stay, C, that is formed of two parts, *d d'*, which are respectively attached to the disks *a a*, the inner end of one part, *d*, being guided in a spirally or other shaped eye, *d'*, of the part *d'* when the link is extended and stopped by an eye, *d'*, or other enlargement of the part *d* when the stay is extended to its full extent. The stay C controls the extension of the spiral spring, and prevents the stretching of the same to such an extent that its tension is destroyed.

An ornamental tubular sleeve or box, D, made of one or more parts and long enough to extend from one head to the other, incloses the spiral spring A and protects the spring against wear. The heads B B are of larger diameter than the interior of the sleeve D, and abut against the ends of the box D by the action of the spring A, which latter may be extended and bent to some extent over the ends of the box without being injured, whereby a

greater flexibility and durability of the link is obtained.

The stay C is preferably arranged at the interior of the spiral spring A, as shown in Fig. 2, or two or more spiral springs may be arranged with one intermediate stay C, as shown in Fig. 5, or two stays may be arranged outside of the spring, as shown in Fig. 6, or the spiral spring may be arranged in a box attached to one of the heads, while a second box is attached to the other head, said sleeves or boxes being adapted to telescope one into the other, as shown in Fig. 7, whereby the spiral spring is entirely inclosed.

The covering sleeve or box D may be made of any desired form or shape, plain, or ornamental, and forms with the spring, heads, and stay an extensible or so-called "stretcher-link," that "gives" to a certain extent when strain is exerted thereon, so as to prevent the breaking of the chain or the tearing of the garment to which the chain is applied.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of an elongated tubular sleeve, a spiral spring inclosed by said sleeve and extensible beyond the ends thereof, heads of larger diameter than the interior of said sleeve, attached to opposite ends of said spring and adapted to close against the outer ends of said sleeve when said spring is contracted, and an extensible stay connected to said heads, substantially as described.

2. The combination of an elongated tubular sleeve, a spiral spring inclosed by said sleeve and extensible beyond the ends thereof, heads of larger diameter than the interior of said sleeve, attached to opposite ends of said spring and adapted to close against the outer ends of said sleeve when said spring is contracted, said heads being provided with eyes at their outer ends adapted for connection with chain-links, and an extensible stay connected to said heads, substantially as described.

3. The combination of an elongated tubular sleeve, a spiral spring inclosed by said sleeve, hollow heads of larger diameter than the interior of said sleeve to close the outer ends thereof, disks connected to the ends of said spring and inclosed within said heads, and an exten-

sible stay connected to said heads, substantially as described.

4. The combination of an elongated tubular sleeve, a spiral spring inclosed by said sleeve
5 and extensible beyond the endsthereof, heads of larger diameter than the interior of said sleeve, and adapted to close against the outer ends thereof when the spring is contracted, disks inclosed within said heads and connect-
10 ed to the ends of said spring, said heads being provided with eyes adapted for connection

with chain-links, and an extensible stay connected to said heads, substantially as described.

In testimony that I claim the foregoing as my 15 invention I have signed my name in presence of two subscribing witnesses.

HENRY H. KELLY.

Witnesses:

JOHN T. BATES,

JOB B. SAVERY.