

J.F. DUFFY

Upholstery Spring

No. 122,111.

Patented Dec. 26, 1871.

Fig. 1

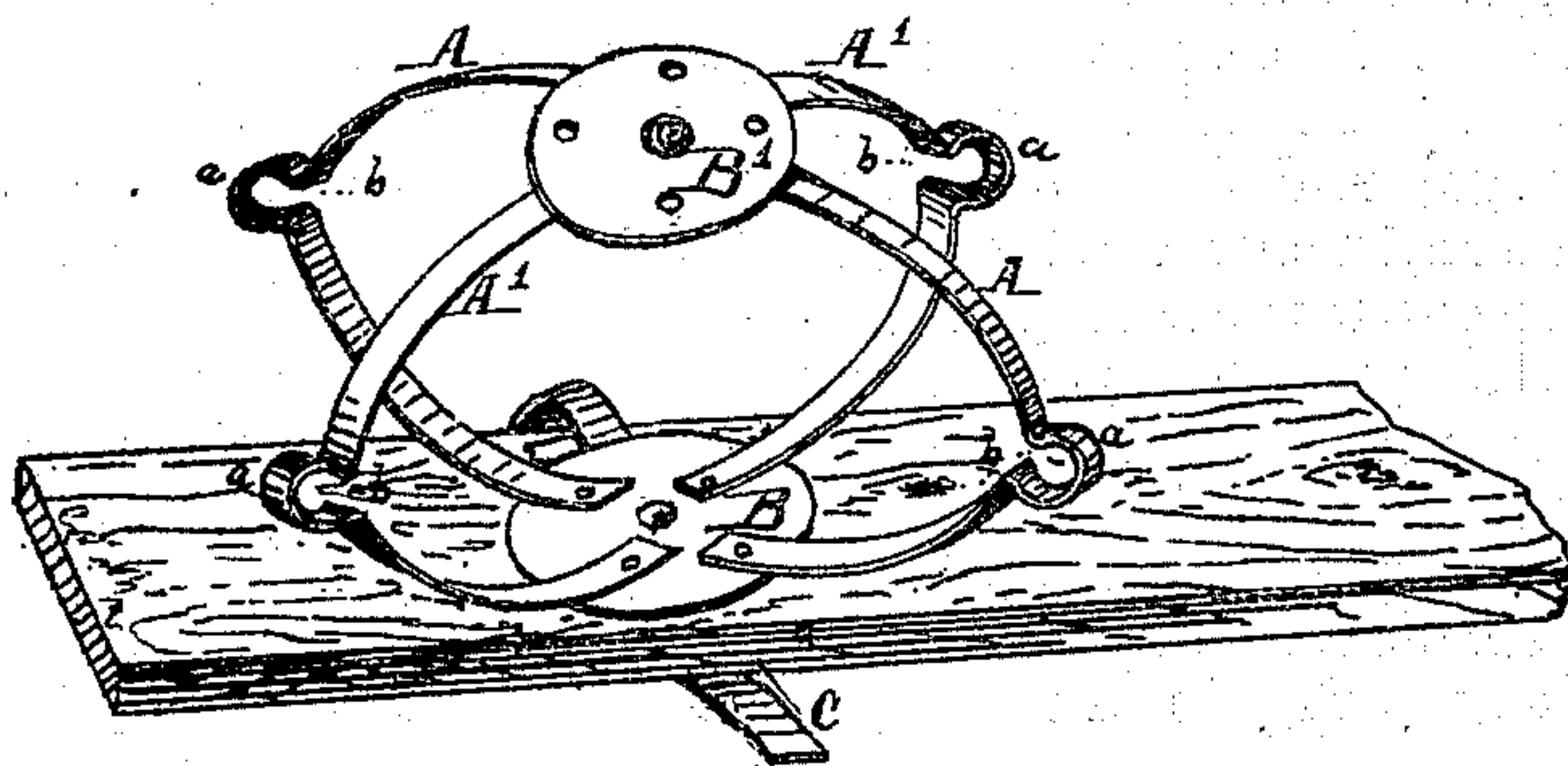
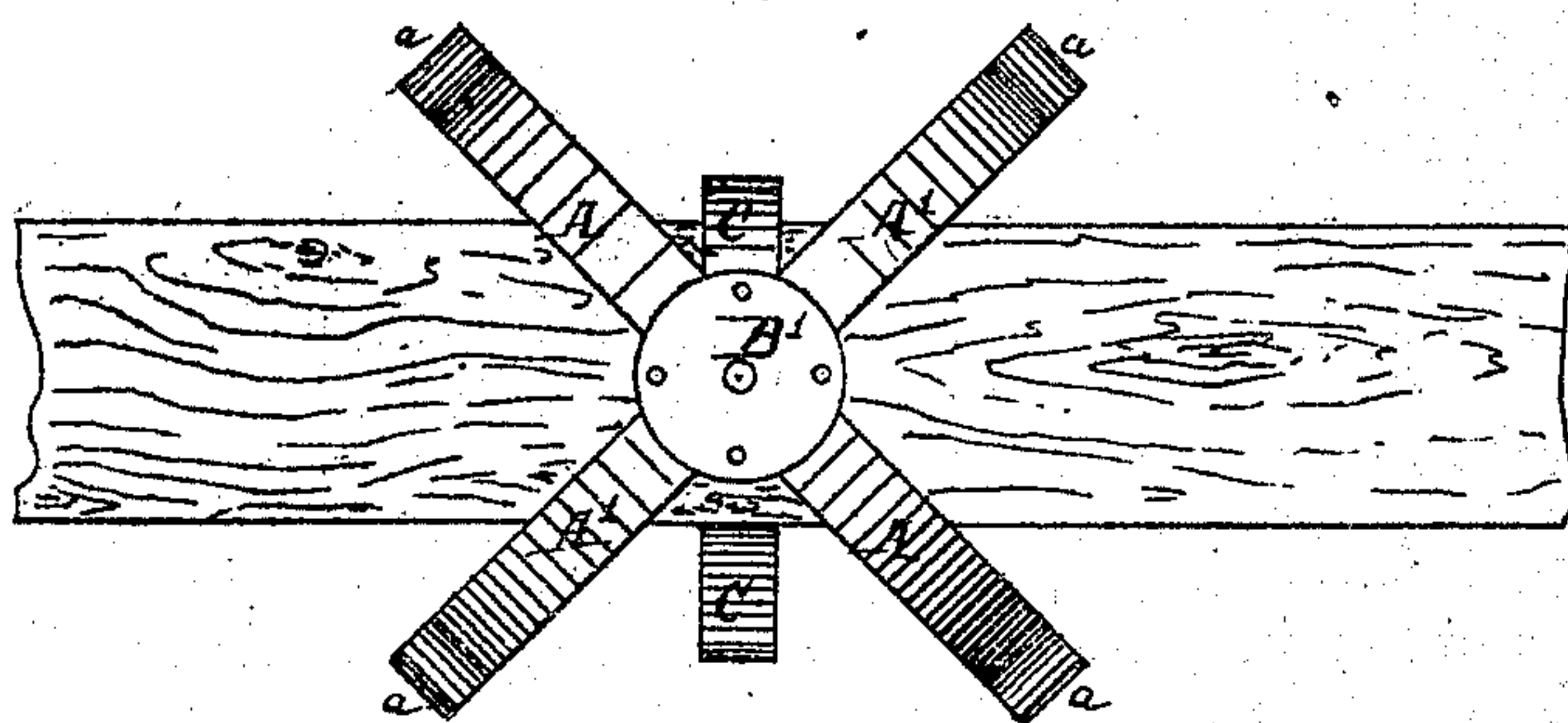


Fig. 2



Witnesses:

J. W. Munday
Julius W. Leke

Inventor:

James F. Duffy

UNITED STATES PATENT OFFICE.

JAMES F. DUFFY, OF CHICAGO, ILLINOIS, ASSIGNOR TO HIMSELF AND GEORGE C. TOBIUS, OF SAME PLACE.

IMPROVEMENT IN SPRINGS FOR UPHOLSTERY PURPOSES.

Specification forming part of Letters Patent No. 122,111, dated December 26, 1871; antedated December 9, 1871.

To whom it may concern:

Be it known that I, JAMES F. DUFFY, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Upholstery-Springs; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of one of my newly-invented springs, represented as being attached to a bed-slat. Fig. 2 is a top or plan view of the same.

Like letters in the several figures indicate like parts.

Nature of the Invention.

This invention relates to an improved spring, for the use of upholsterers, for sustaining cushions and for other like purposes; and it consists in the construction and arrangement of parts, as will be presently more explicitly set forth.

To enable those skilled in the art to make and use my invention I will proceed to describe the same with particularity, making use, in so doing, of the aforesaid drawing.

General Description.

A A A' A' are semi-elliptical springs, made usually of strap steel, and riveted at top and bottom to the disks B B'. These springs are arranged to oppose one another in pairs, as seen at Fig. 2; there may, however, be more or less of them, according to the strength required. Each leaf or spring A A' is made with a loop or outgoing curvature, *a*, at the outer extremity, as

shown. These loops are made so that the open space *b* from the loops into the spring shall be considerably smaller than the vertical diameter of the loops, so that when the spring is collapsed the strain shall be distributed throughout the entire length, and not be concentrated at a single point; in other words, the loop allows the open space *b* to close entirely, and the upper and lower parts of the spring to come quite in contact without undue strain upon any part. The lower disk B has attached thereto a hook-shaped gripe or retaining-spring, C, by means of which the device may be secured to a bed-slat, if desired; and the upper disk B' is pierced with holes, for securing it to a lattice-work of strap-iron or any other suitable covering and retaining material.

The whole, as described, constitutes a single spring, any number of which may be applied, after the manner of the usual spiral spring, to beds or cushions, or upholstery of any kind, making a highly-elastic, durable, and cheap spring.

Claims.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of the semi-elliptic springs A A A' A' and disks B B', substantially as specified.

2. The combination of springs A A A' A', disks B B', and retaining or gripping-spring C, constructed and arranged as specified and shown.

JAMES F. DUFFY.

Witnesses:

H. F. EBERTS,
J. W. MUNDAY.

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