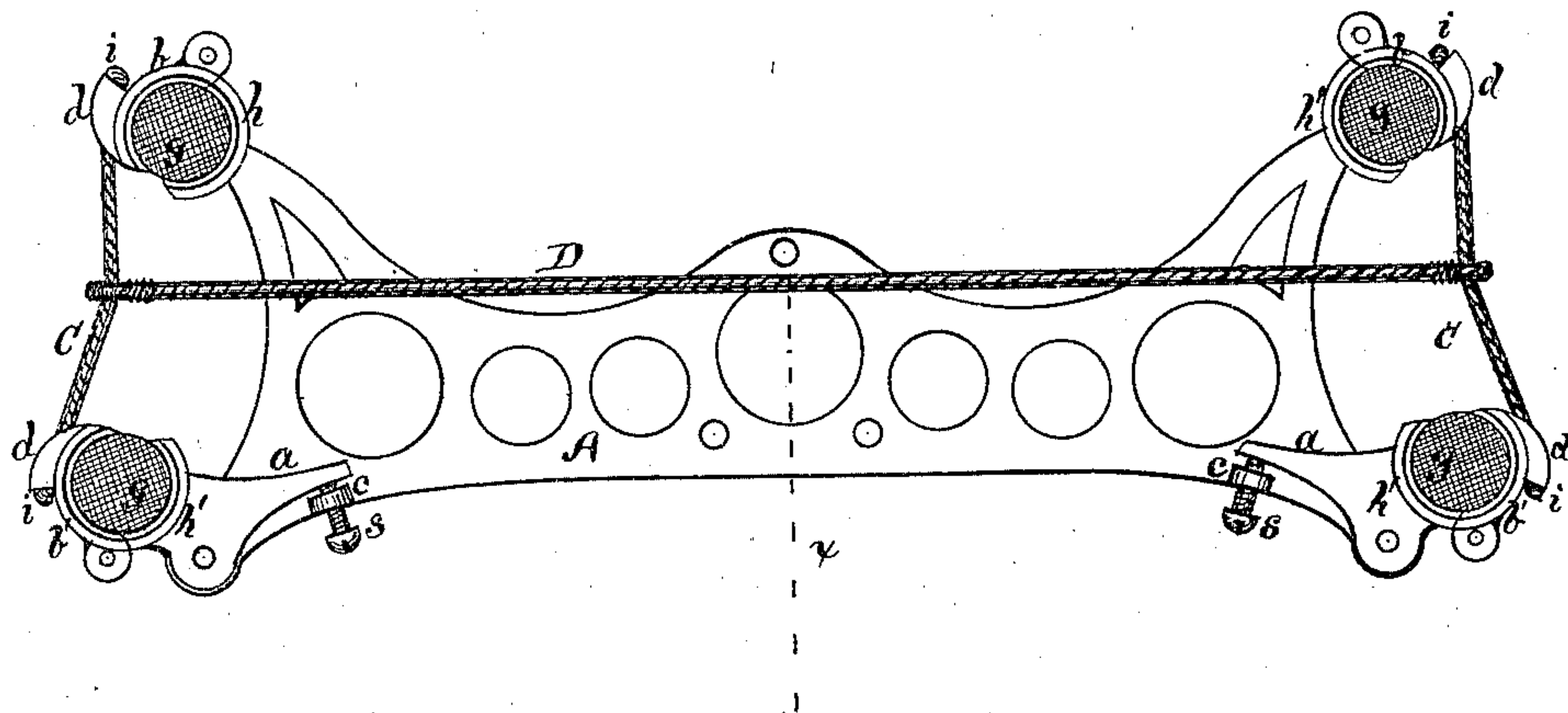


J. CHASE.

Strainer for Scroll-Saws.

No. 133,563.

Patented Dec. 3, 1872.



Witnesses.

J. A. Loughborough
Witnesses.

Inventor.

J. Chase
By J. A. Loughborough
Atty.

UNITED STATES PATENT OFFICE.

JAMES CHASE, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN STRAINERS FOR SCROLL-SAWS.

Specification forming part of Letters Patent No. **133,563**, dated December 3, 1872.

To all whom it may concern:

Be it known that I, JAMES CHASE, of Rochester, in the county of Monroe and State of New York, have invented certain Improvements in Strainers for Scroll-Saws, of which the following is a specification:

My invention relates to that class of scroll-saw strainers in which a deflecting cord is used; and it consists mainly in attaching each end of such deflecting cord to a secondary or auxiliary deflecting cord, the latter being attached to a spring or cushioned hanger or follower-plate at one or both ends of each.

The drawing represents a front elevation of my invention.

The higher rate of speed at which a scroll-saw can be run, the more rapid and perfect will it work. It is, therefore, desirable to have the least possible weight of material to move in the strainer, and to move it the least possible distance, and at the same time afford the necessary stroke to the saw. When the deflecting cord is attached to the end of a spring, or to a spring-lever, as heretofore used, the weight of material in either case necessary to afford proper strength to such parts required much power to overcome their inertia and momentum, and the constant strain and vibration of the same, upon light saws especially, has been too great to permit them to be run as rapidly as desired. These difficulties are entirely obviated by my triple deflecting-cord strainer.

A is a frame, preferably of iron, to which the hangers *h* are fixed. The hangers *h'* are pivoted to the lower points, as shown, and their

arms *a* rest upon the points of the set-screws *s*, which are tapped through lugs *c* cast upon the frame A. The hanger-stocks or follower-plates *b* are hinged to the hangers *h*, and the stocks *b'* to the hangers *h'*. A plug, *g*, of rubber or other suitable material, is inserted in the concave space between the two. The follower-plates are each provided with a bifurcated lug, *d*, between the lips of which the auxiliary deflecting cords C are secured by means of the knots *i* at each end. The primary deflecting cord D is secured to the others by tying or otherwise. The saw-strap is attached at the point indicated by the dotted line *x*.

The hangers and follower-plates may be made straight, and a square or flat plate of rubber or other spring used; or cushions of felt or woolen cloth may be employed.

Steel wires might be substituted for the cords, if desired.

I do not claim anything separately that is shown in the patent to S. G. Mason, May 16, 1871; but—

What I claim as my invention is—

The main deflecting cord D, in combination with the auxiliary deflecting cords C, having their ends connected to the cushioned follower-plates *b*, one or more of which latter is made adjustable to regulate the tension, and the parts being arranged to act conjointly in the manner and for the purposes shown and described.

J. CHASE.

Witnesses:

PATRICK McINTYRE,
W. S. LOUGHBOROUGH.