

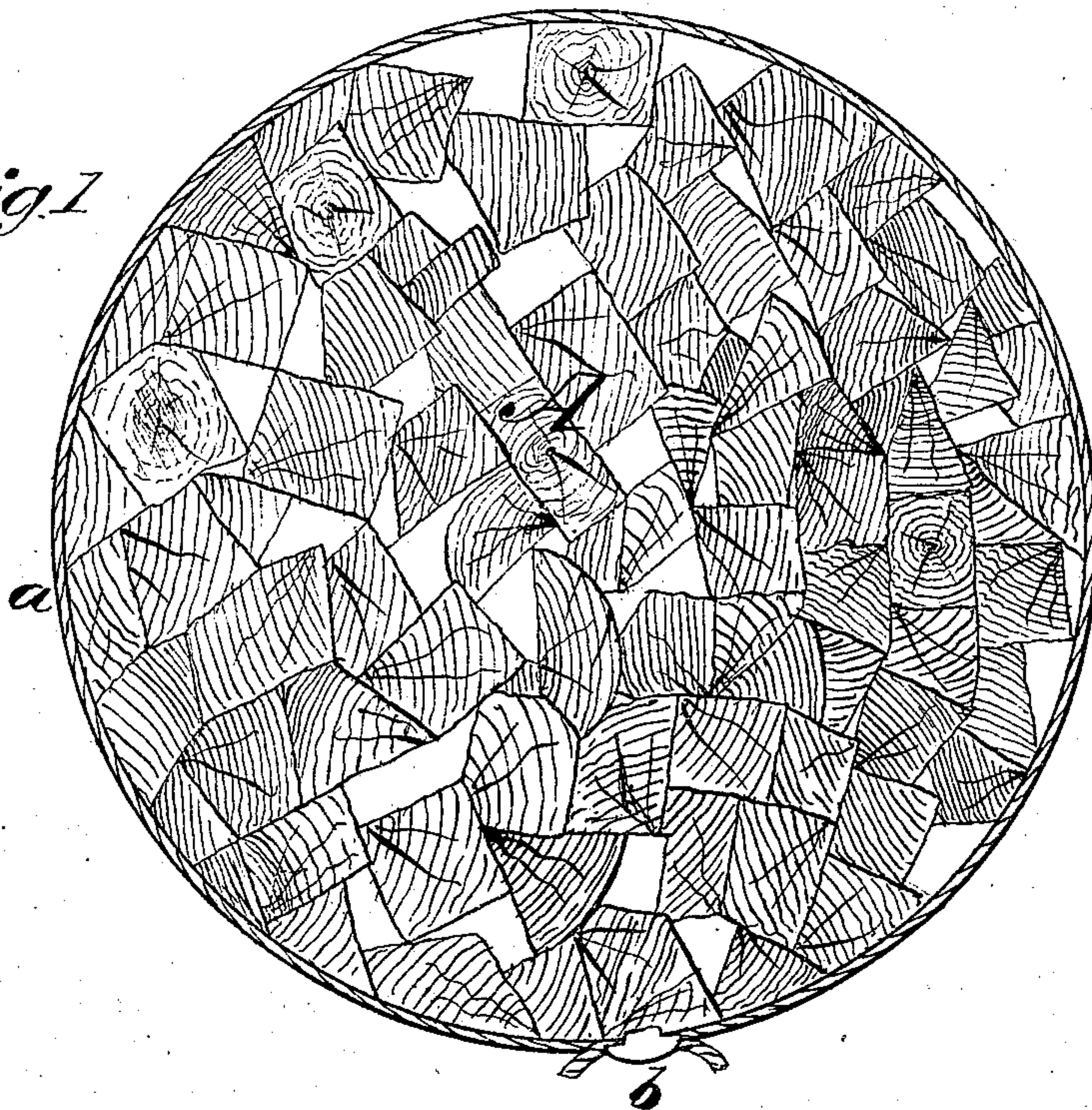
H. A. HOUSE.

Bale Ties.

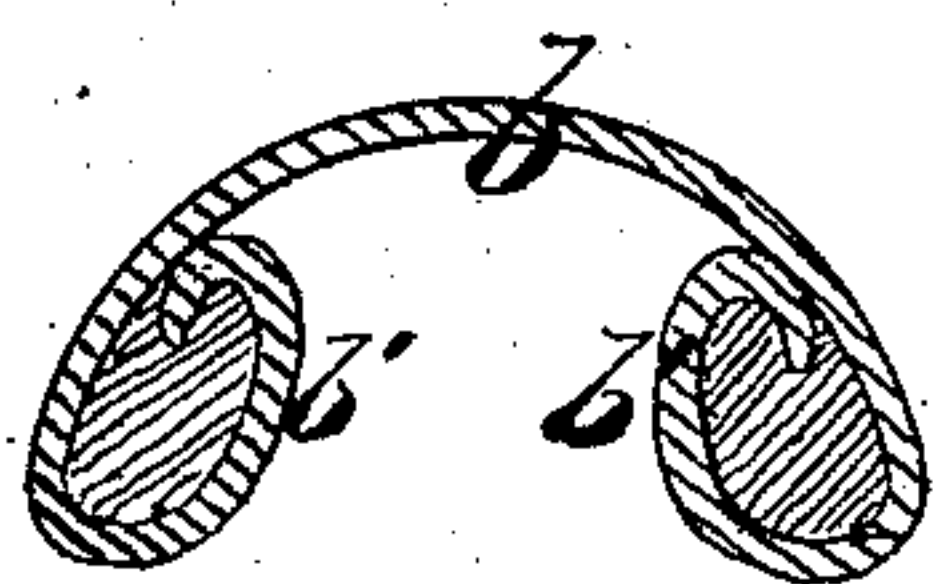
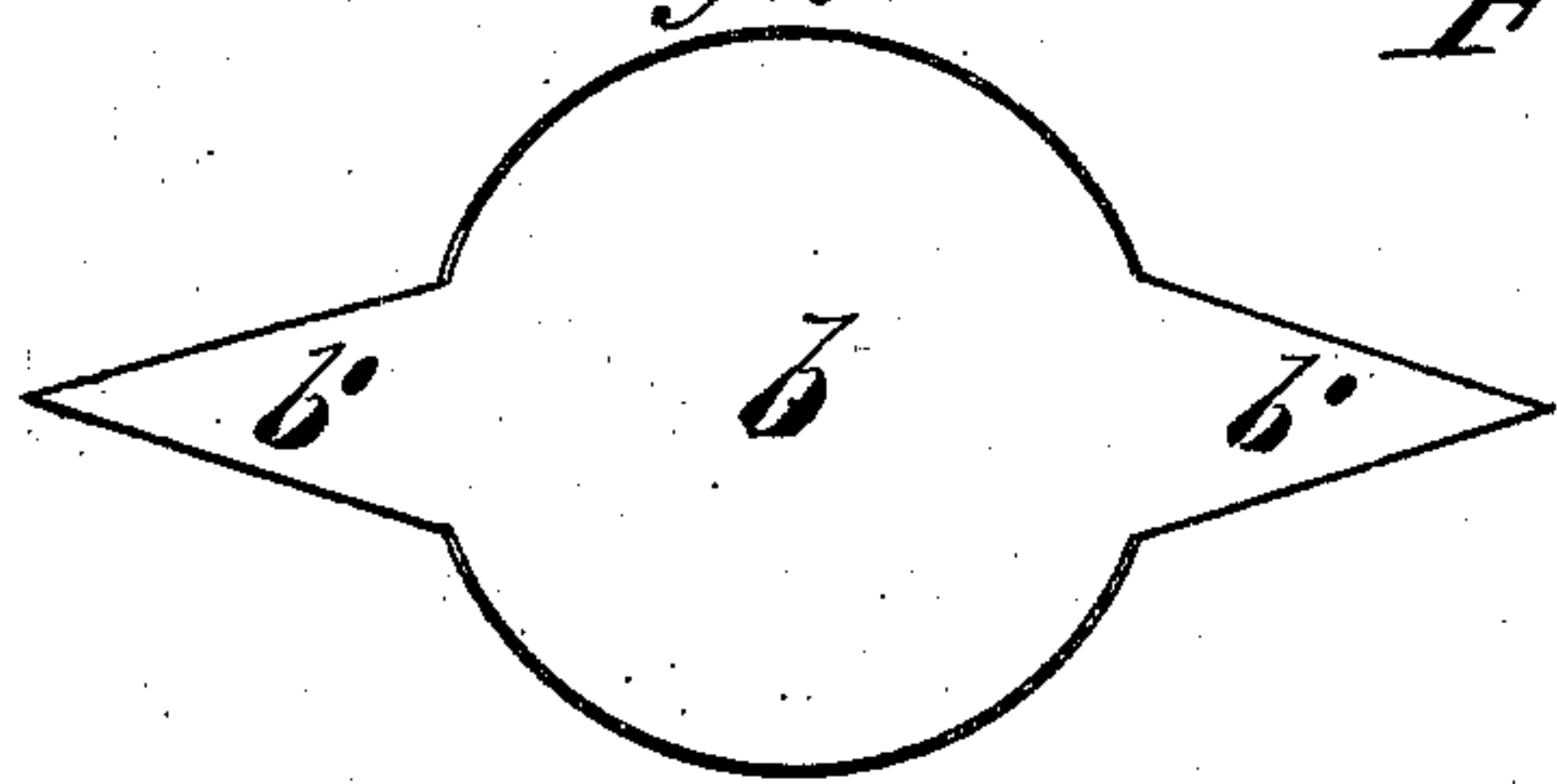
No. 133,858.

Patented Dec. 10, 1872.

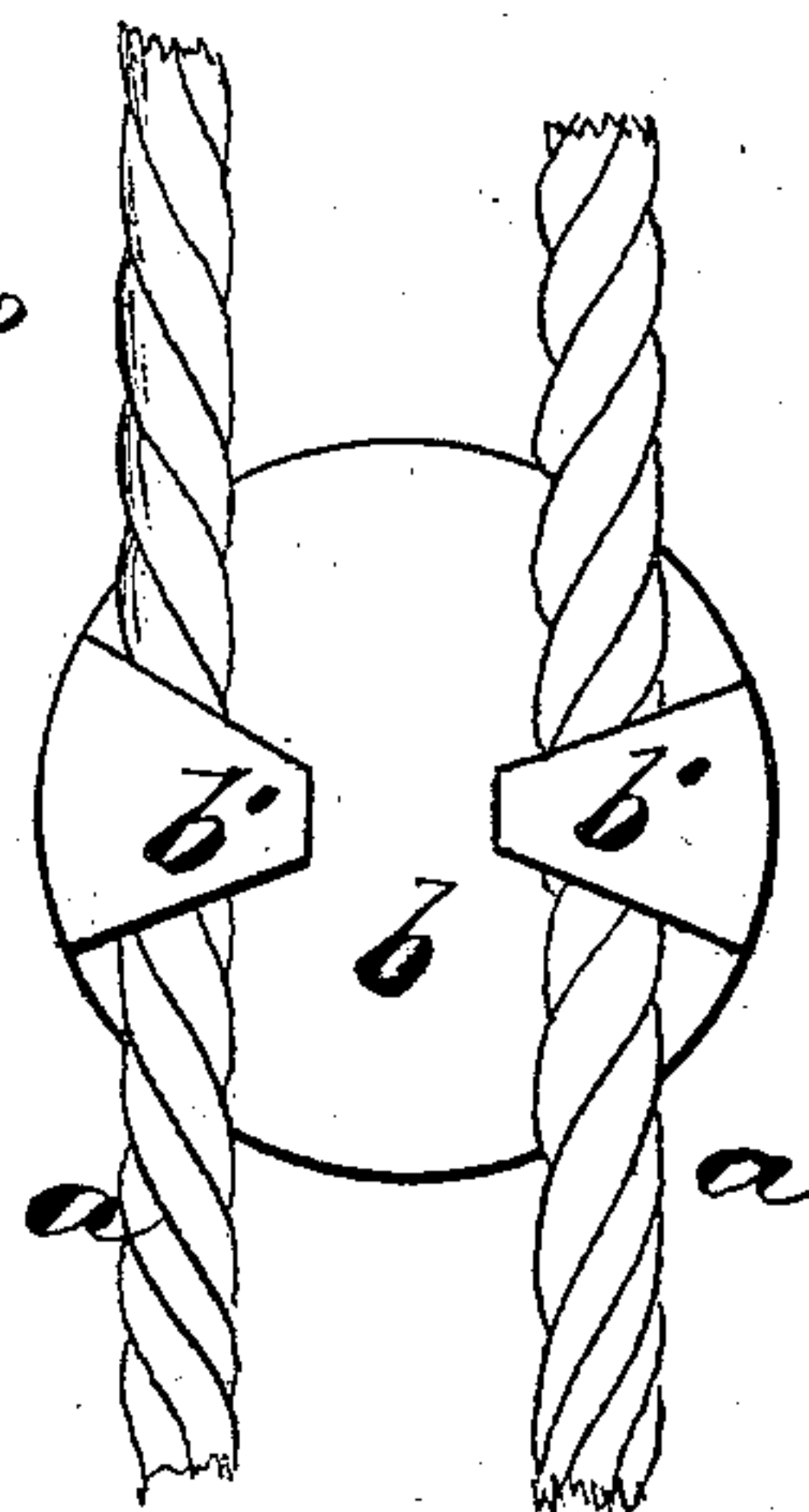
*Fig. 1*



*Fig. 2*



*Fig. 3*



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*R. J. Campbell,*  
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# UNITED STATES PATENT OFFICE.

HENRY A. HOUSE, OF BRIDGEPORT, CONNECTICUT.

## IMPROVEMENT IN BALE-TIES.

Specification forming part of Letters Patent No. 123,858, dated December 10, 1872.

*To all whom it may concern:*

Be it known that I, HENRY A. HOUSE, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and useful Mode of Securing Bundles or Parcels; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 represents my improved mode of securing kindling-wood, and Figs. 2, 3, and 4 show the fastening.

Similar letters of reference indicate corresponding parts in the two figures.

The object of this invention is to secure bundles of kindling-wood and other parcels by means of flexible bands and metallic fastenings, the latter being so constructed that by the use of a pair of nippers or other suitable machine the ends of the bands can be quickly and safely clamped together about a bundle, as will be hereinafter explained.

The following description of my invention will enable others skilled in the art to understand it.

In the accompanying drawing, A represents a bundle of kindling-wood, which is confined by means of a flexible band, *a*, the ends of which are secured to a dished clamp, *b*. The clamp *b* is made of any suitable ductile metal, such, for instance, as sheet metal, and may be struck out of a sheet by machinery suitably adapted to the purpose. This clamp *b* con-

sists of a central concavo-convex portion and two gripping-tongues, *b' b'*, formed on its periphery diametrically opposite each other.

When the band *a* is drawn tightly around the bundle and the ends crossed, the clamp is applied to these ends by bending over them the pointed tongues *b' b'*, as shown in Figs. 3 and 4. These tongues are firmly pressed over and into the band, they being turned into the concavity of the portion *b*, so that they will be protected, and not be liable to injure the hands.

I have described and represented the central portion of the clamp *b* as being constructed with a concavo-convex form; but while I prefer that form, for the reasons stated, I will here state that the clamp may be made in form of a staple, and the tongues formed on the ends of the staple-form clamp, by giving said ends a fan-tail shape; or the fastening described may have its central portion, from which the tongues project or extend, made flat; also that any suitable number of tongues may be adopted.

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

The device *a b*, substantially as described, for securing bundles or parcels.

HENRY A. HOUSE.

Witnesses:

GEORGE C. BISHOP,  
ALFRED B. BEERS.