

E. E. & C. T. Packer.

Shaft Coupling.

N^o 86,581.

Patented Feb. 2, 1869.

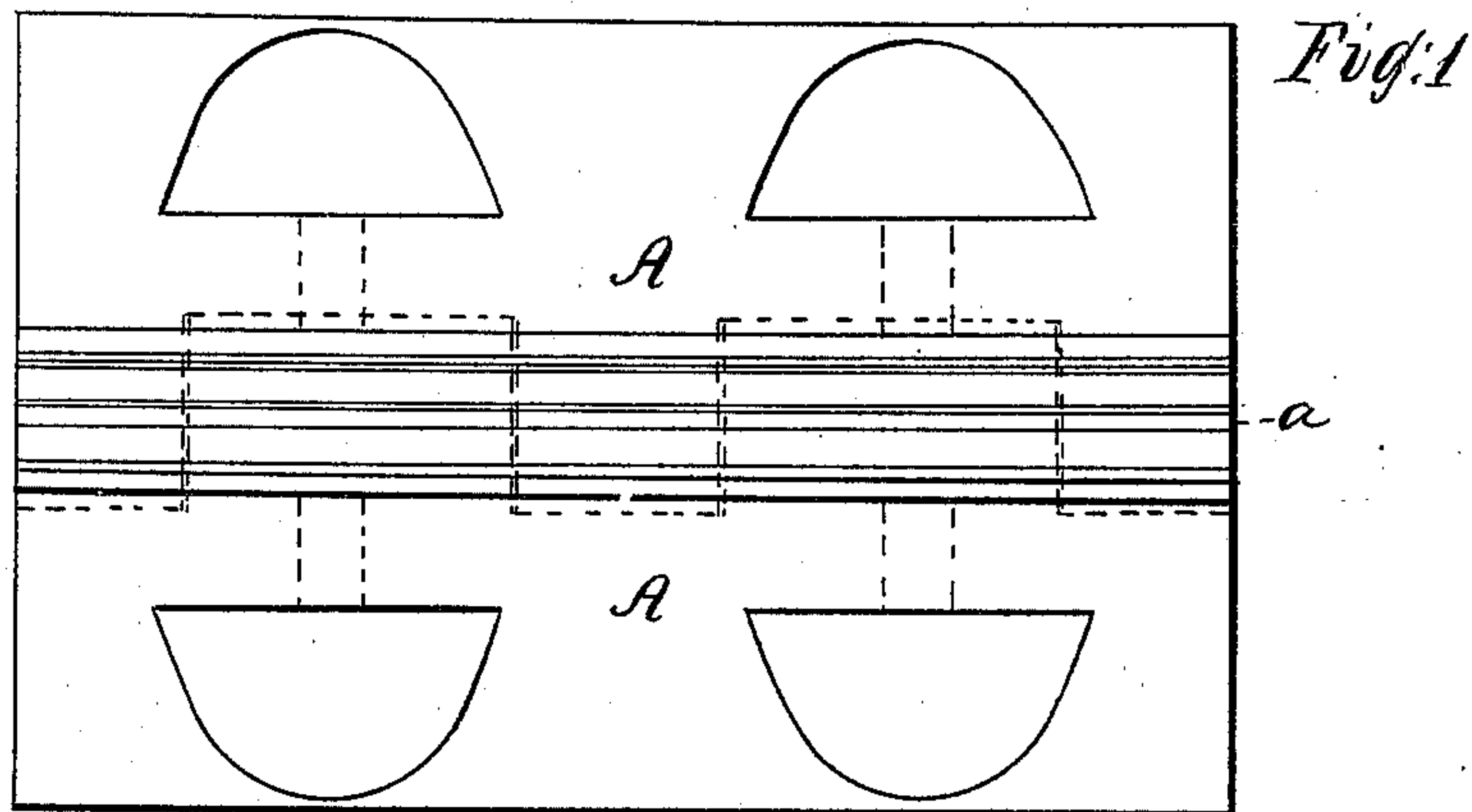


Fig. 1

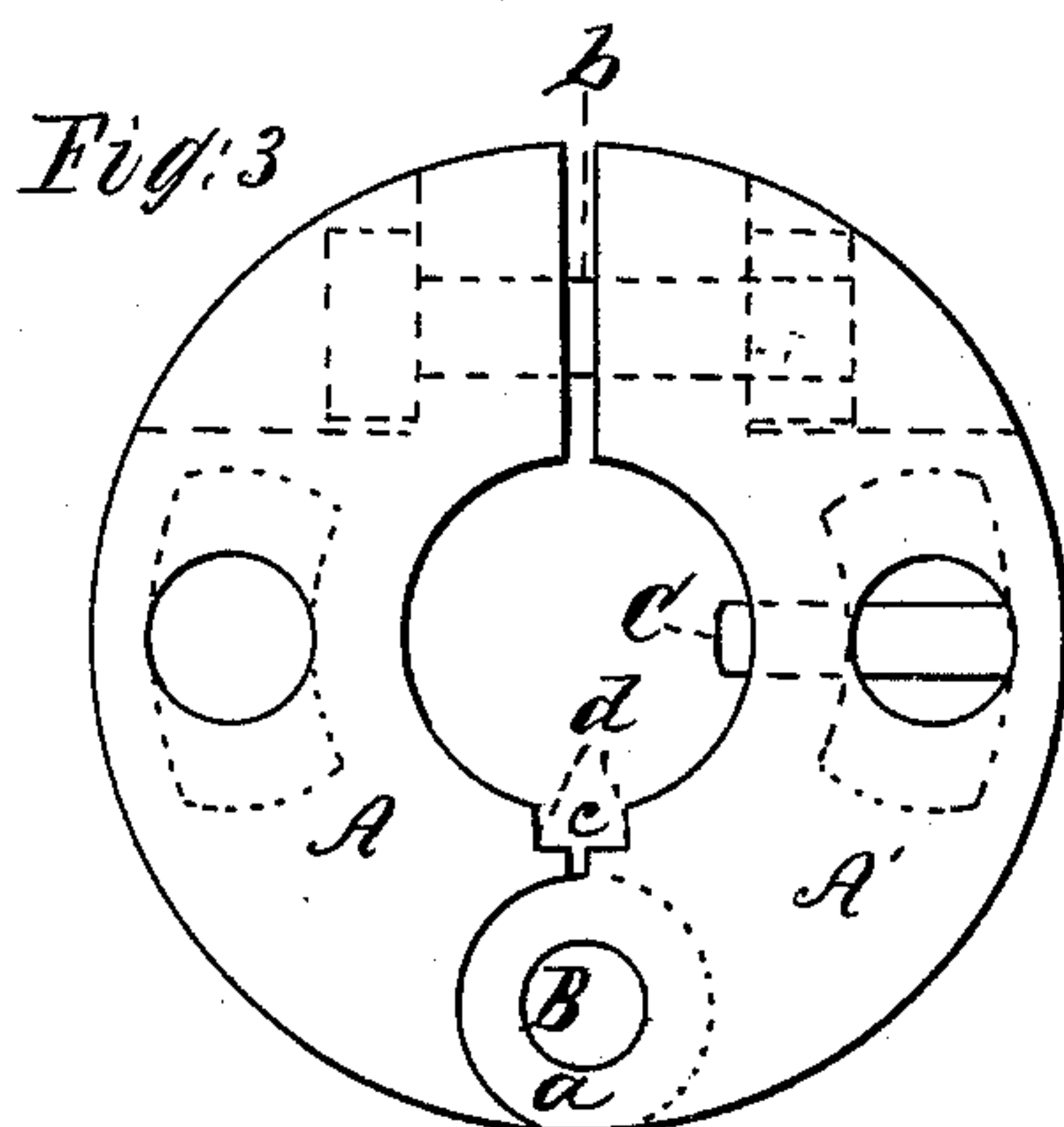


Fig. 3

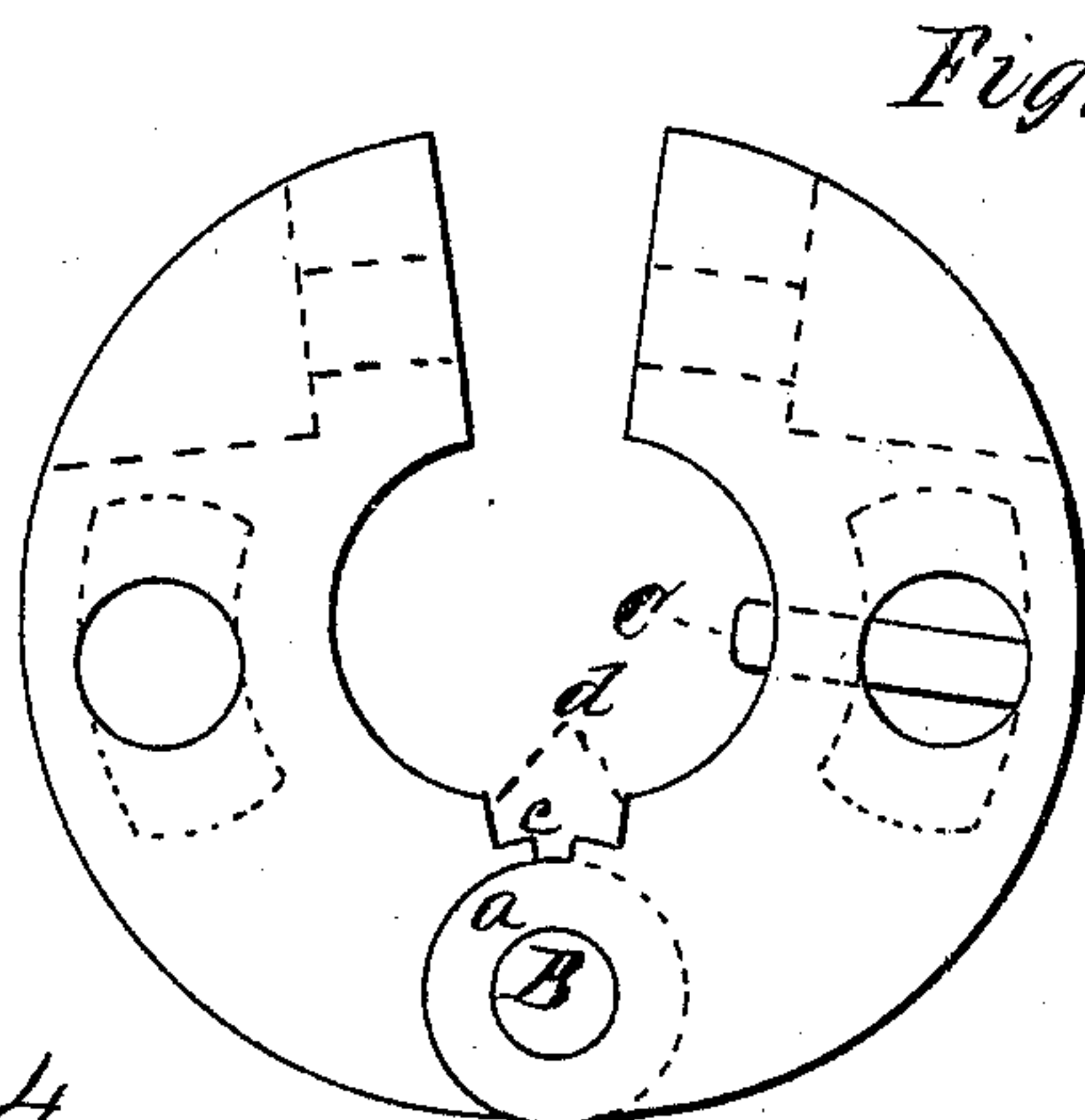


Fig. 2

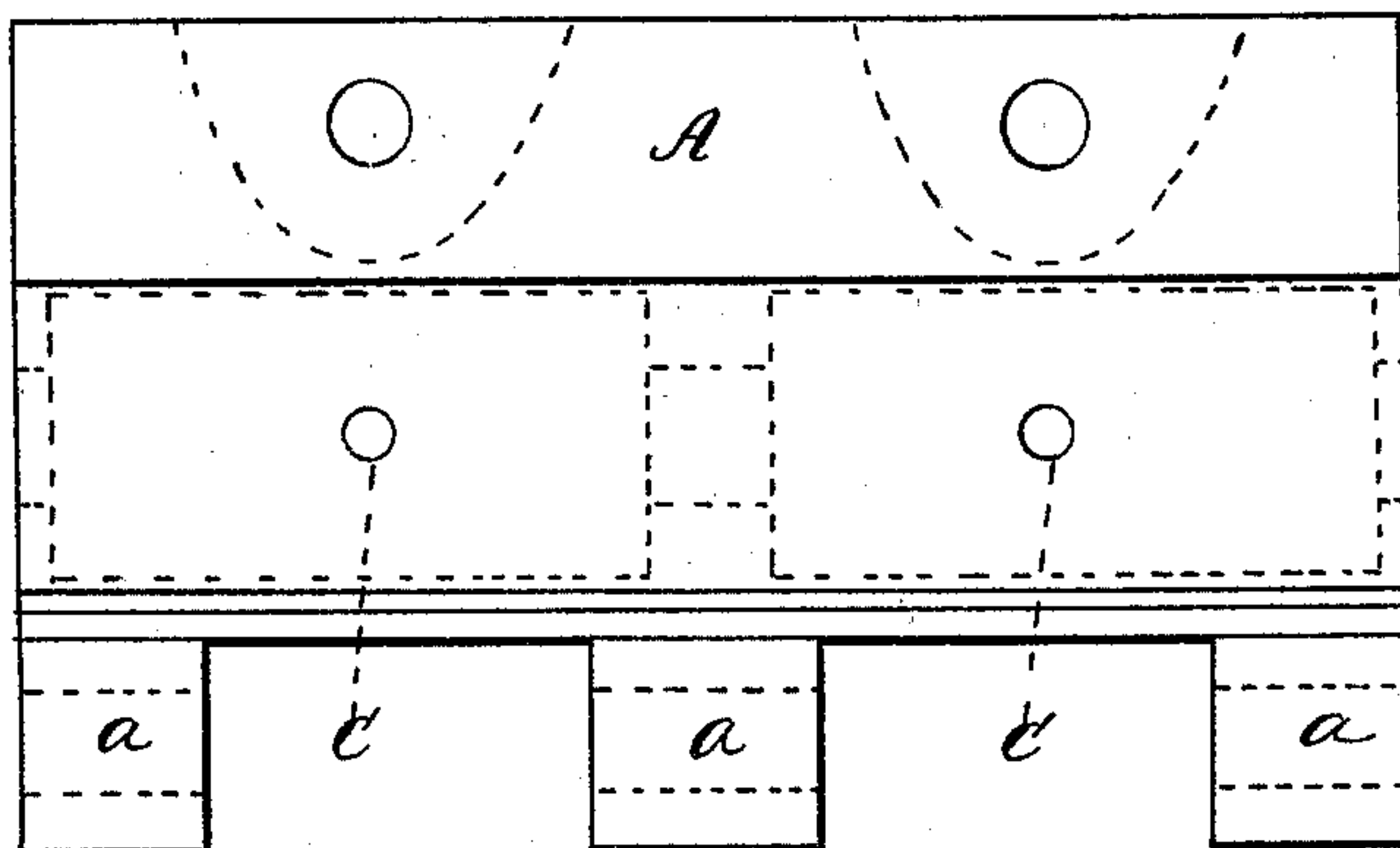


Fig. 4

Witnesses

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EDWARD E. PACKER AND CHARLES T. PACKER, OF PHILADELPHIA, PENNSYLVANIA,
ASSIGNORS TO THEMSELVES AND JAMES E. PACKER, OF SAME PLACE.

Letters Patent No. 86,581, dated February 2, 1869.

SHAFT-COUPLING.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, EDWARD E. PACKER and CHARLES T. PACKER, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Shaft-Couplings; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists, in the first place, in the construction of a shaft-coupling in two parts, which are connected together by means of a longitudinal hinge, so as to admit of their being swung outward from the centre, for the free reception of the ends of the shafts, to be coupled. The two parts are then clamped at their outer edges, to confine them upon the shafts by means of screw-bolts, in the same manner as slotted couplings. The object of constructing the coupling in this manner is to facilitate the coupling of the shafts, as the two parts have a tendency to swing apart from the centre when the confining-screws are removed; whereas, the slotted coupling often springs inward, so as to require a tool to be forced into the slot before the shafts can be inserted.

In the second place, the improvement consists in providing one part of the coupling with dowels, which enter corresponding holes in the shafts, to hold their ends firmly together.

In the accompanying drawings, which make a part of this specification—

Figure 1 is a top view of the coupling swung open, to receive ends of shafts to be coupled together.

Figure 2 is an end view of the coupling in the same position.

Figure 3 is an end view of the coupling in the position it assumes when clamped upon the shafts.

Figure 4 is an interior face view of one of the parts A of the coupling.

Like letters in all the figures indicate the same parts. The coupling is composed of two equal parts A,

which are connected at one edge by means of a hinge, *a*, which has a pivot-bolt, *B*, through it, from end to end of the coupling.

When the ends of the shafts to be coupled are to be brought into the coupling, the latter is placed in the position represented in figs. 1, 2, and 3, the hinge *a* being lowest, and the confining-bolts *b*, represented in fig. 3, having been removed, the two parts, *A A*, automatically swing outward from the centre of the coupling, as the principal part of the metal is outside of the centre of the hinge *a*. This, as will readily be seen, allows of a free insertion of the ends of the shafts.

There are dowel-pins, *C*, in one part, *A*, which enter corresponding holes in the shafts, when the coupling is closed, and confined by means of the bolts *b*, to confine the ends of the shafts together.

An ordinary key placed in the seat *c*, holds the ends of the shafts in their lateral position with the coupling.

When the coupling is closed firmly on the shafts, the sides, *d d*, of the key-seat, press hard upon the corresponding edges of the key, and assist in retaining it in place. This obviates the necessity of driving the key so tight as is ordinarily required.

What we claim as our invention, and desire to secure by Letters Patent, is—

The combination of the parts *A A'*, connected by means of the hinge *a*, of part *A*, having dowel-pins *C*, which enter corresponding holes in the shafts, and hold their ends firmly together, the whole constructed as specified.

In testimony that the above is our invention, we have hereto set our hands and affixed our seals, this 18th day of November, 1868.

EDWARD E. PACKER. [L. s.]

CHARLES T. PACKER. [L. s.]

Witnesses:

STEPHEN USTICK,

JOHN E. LITTLETON.