

(No Model.)

C. H. ROSS.

VAULT COVER FASTENING.

No. 283,517.

Patented Aug. 21, 1883.

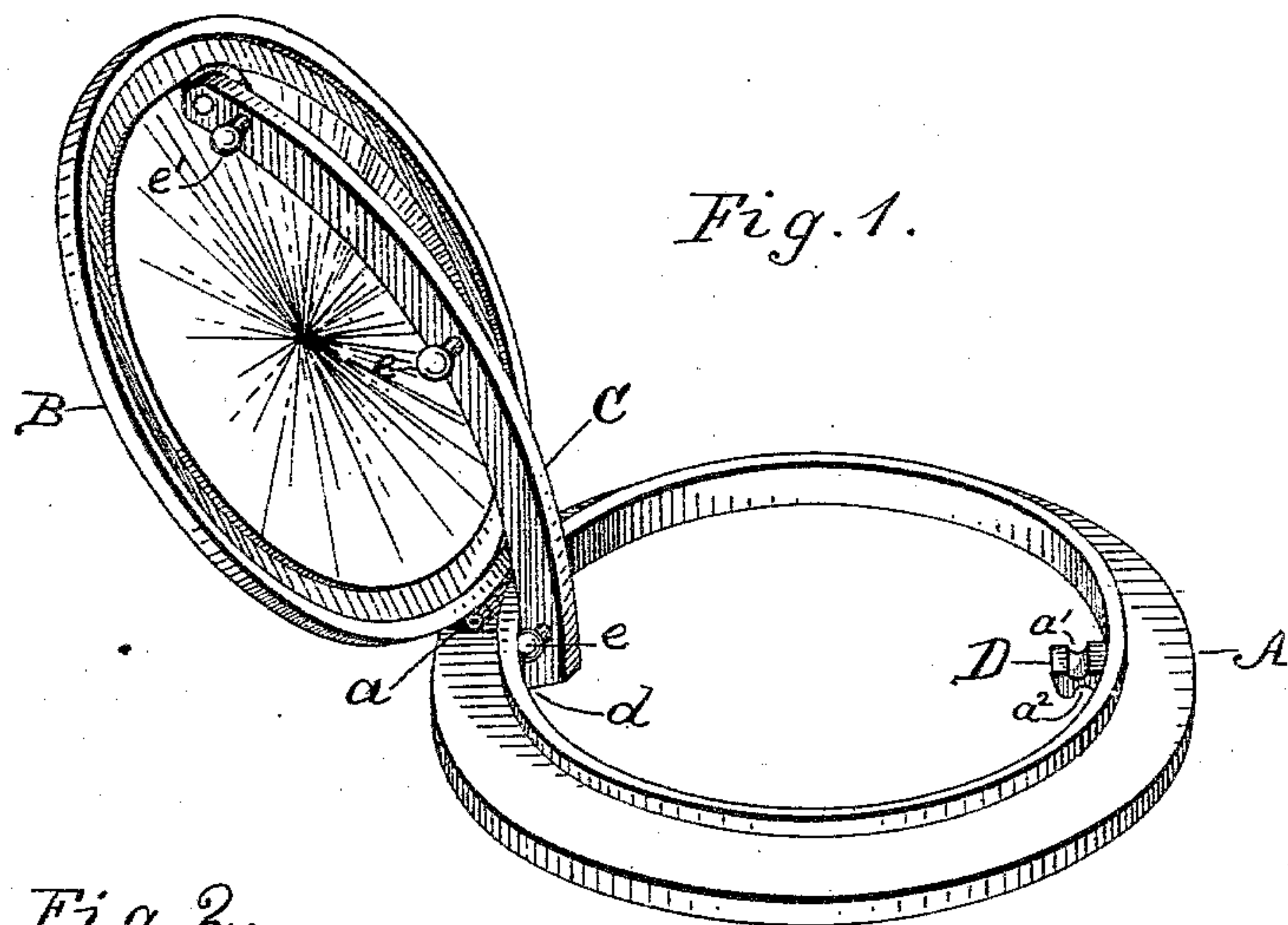


Fig. 1.

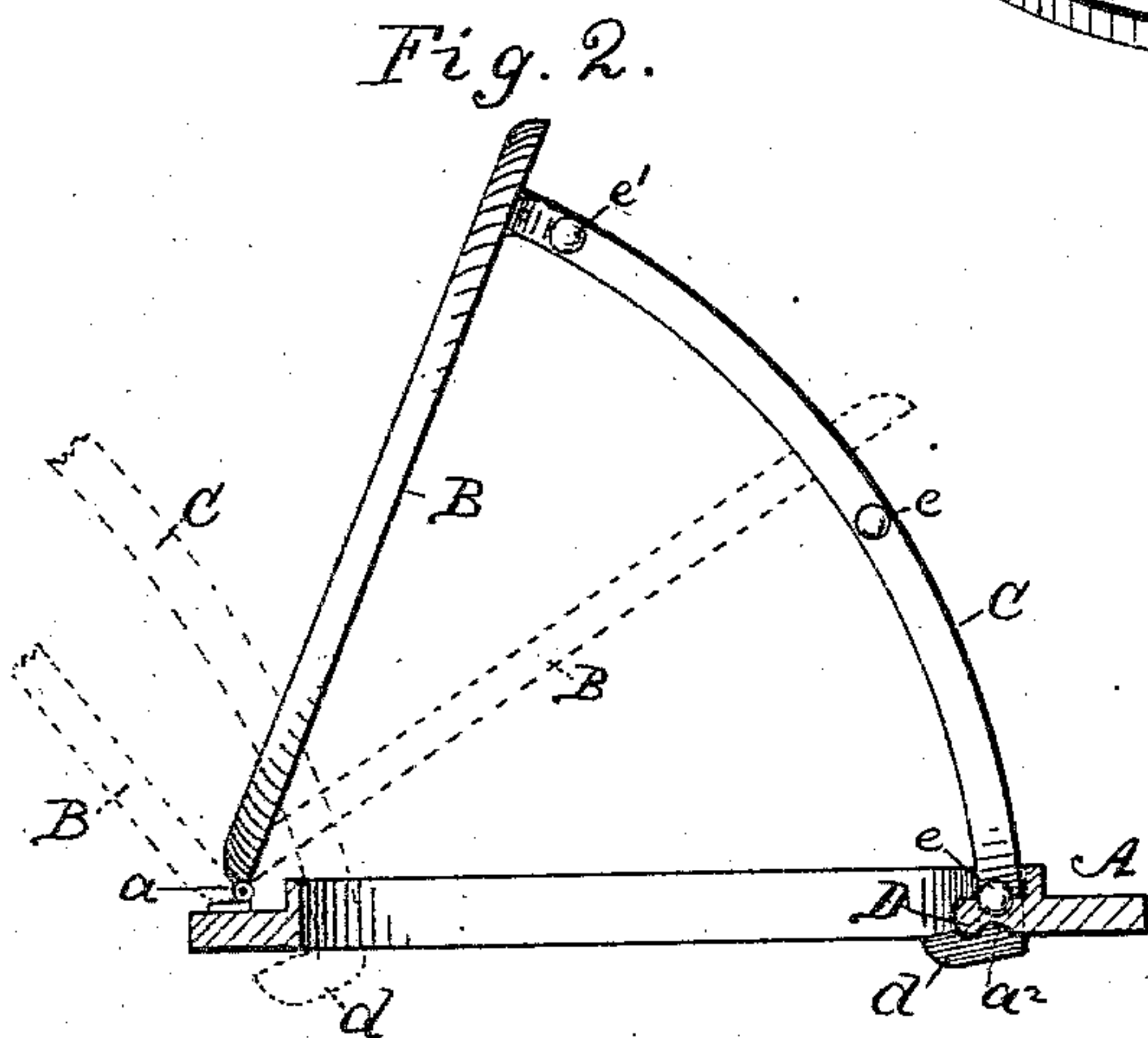


Fig. 2.

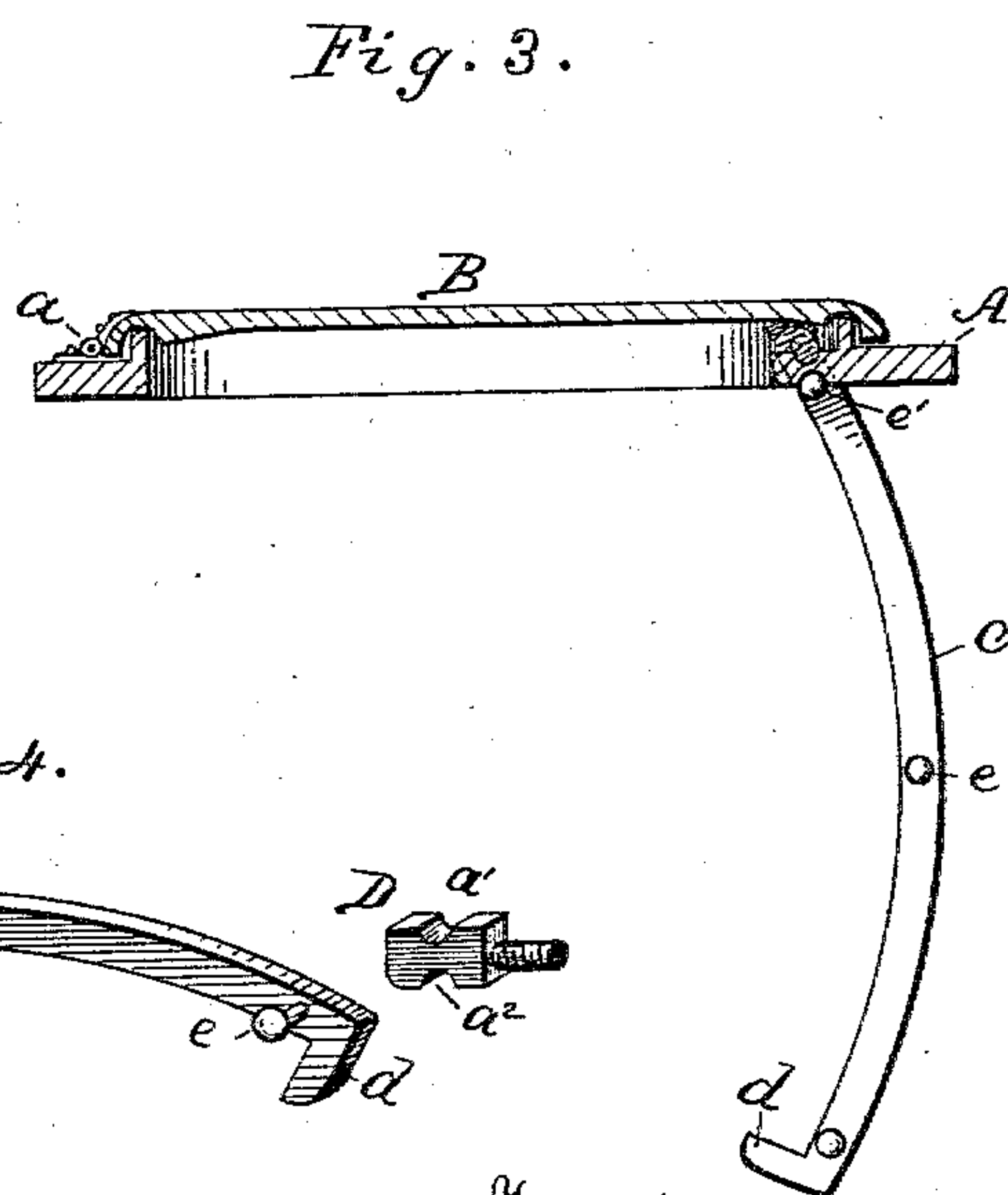


Fig. 3.

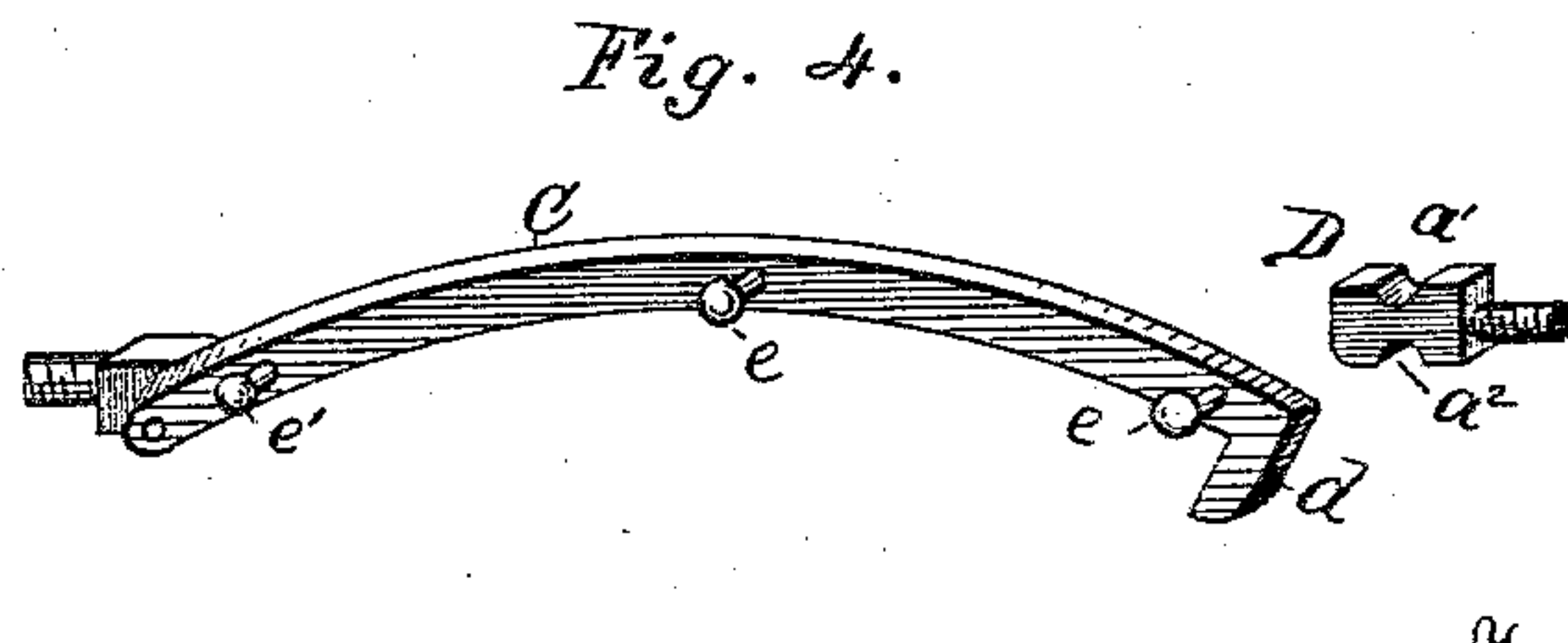


Fig. 4.

Witnesses:
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UNITED STATES PATENT OFFICE.

CHRISTIAN HANSEN ROSS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF
TO L. OTIS DAUCHY, OF SAME PLACE.

VAULT-COVER FASTENING.

SPECIFICATION forming part of Letters Patent No. 283,517, dated August 21, 1883.

Application filed July 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN H. ROSS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Vault-Cover Fastening, of which the following is a specification.

My invention relates to improvements in that class of vault-covers that are adapted to be opened for ventilation, the introduction of fuel or other substances, or for other purposes; and the objects of my invention are to provide a simple, cheap, and convenient device for that purpose; and it consists in a locking-bar, of peculiar construction, pivoted to the cover, and a suitable lug or support for the same, by means of which the vault-cover may be held open at any desired angle and securely locked when closed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of a circular vault-cover with my improvement adapted thereto. Fig. 2 is a side elevation, partly in section, showing the cover opened at different angles. Fig. 3 is a side elevation, showing the cover closed and locked; and Fig. 4 is a detail view.

A is a ring or bed plate, usually of cast-iron, upon which the cover B is hinged at *a*. The bed-plate is provided with a lug or double catch, *b*, opposite the hinge *a*.

C is a curved arm pivoted at one end to cover B, and has at its opposite or lower end an inwardly projection, *d*, and is also provided on one side with bolts or headed pins *e e'*, adapted to fit into recesses *a' a''* of the double catch or lug D. The curved bar C is made of such a length as to allow cover B to be thrown back at about an angle of forty-five degrees, when its hook *a* will engage with the inner edge of ring or bed plate A, as shown in Fig. 2, thus holding the cover securely open without danger of breaking off the hinge at *a*. In

this position the cover is opened widest. Various degrees of opening are indicated by dotted lines in Fig. 2, where the cover is supported at the angle required by resting one of the pins or bolts *e* into the corresponding upper recess, *a'*, of lugs D. When the cover is closed, it is locked by bolt *e'*, engaging with the lower recess, *a''*, of lug D, as shown in Fig. 3.

My improved fastening may be made for sale as an article of manufacture, to be applied to any vault or similar cover, as shown in Fig. 4.

It will be seen that my invention affords an easy and reliable means of elevating and supporting a vault-cover at any required angle for the admission of light, or for ventilation, or of throwing the cover wide open and supporting it in this position whenever required.

Curved bar C may be cast or otherwise cheaply manufactured, and does not require the aid of springs of any kind to hold it in engagement with a catch.

I am aware that a curved bar has been used for the same purpose before. I do not therefore claim this broadly; but

What I do claim as new, and desire to secure by Letters Patent, is—

1. The curved bar C, provided with pins or bolts *e e'* and projection *d*, in combination with a hinged vault-cover B and bed-plate A, provided with a double catch, D, as herein shown and for the purpose set forth.

2. As a new article of manufacture, the curved bar C, provided with pins or bolts *e e'* and projection or catch *d*, in combination with a double catch or lug, D, adapted to be applied to a vault-cover, as shown and set forth.

CHRISTIAN HANSEN ROSS.

Witnesses:

GEO. K. DAUCHY,
JAMES J. NOBLE.