

No. 840,825.

PATENTED JAN. 8, 1907.

E. A. COLBY.
CRUCIBLE.

APPLICATION FILED NOV. 23, 1905. RENEWED OCT. 9, 1906.

Fig. 1.

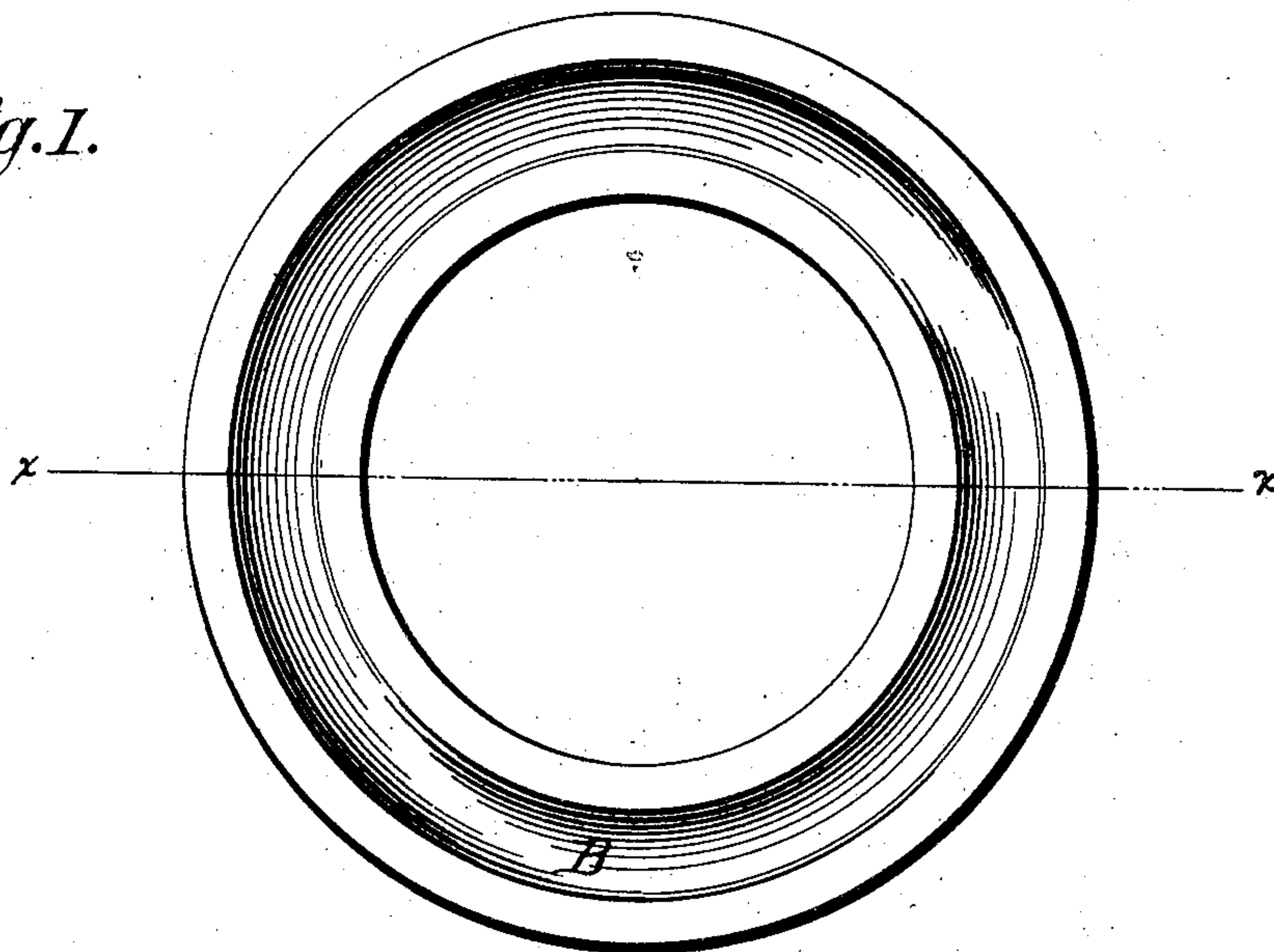
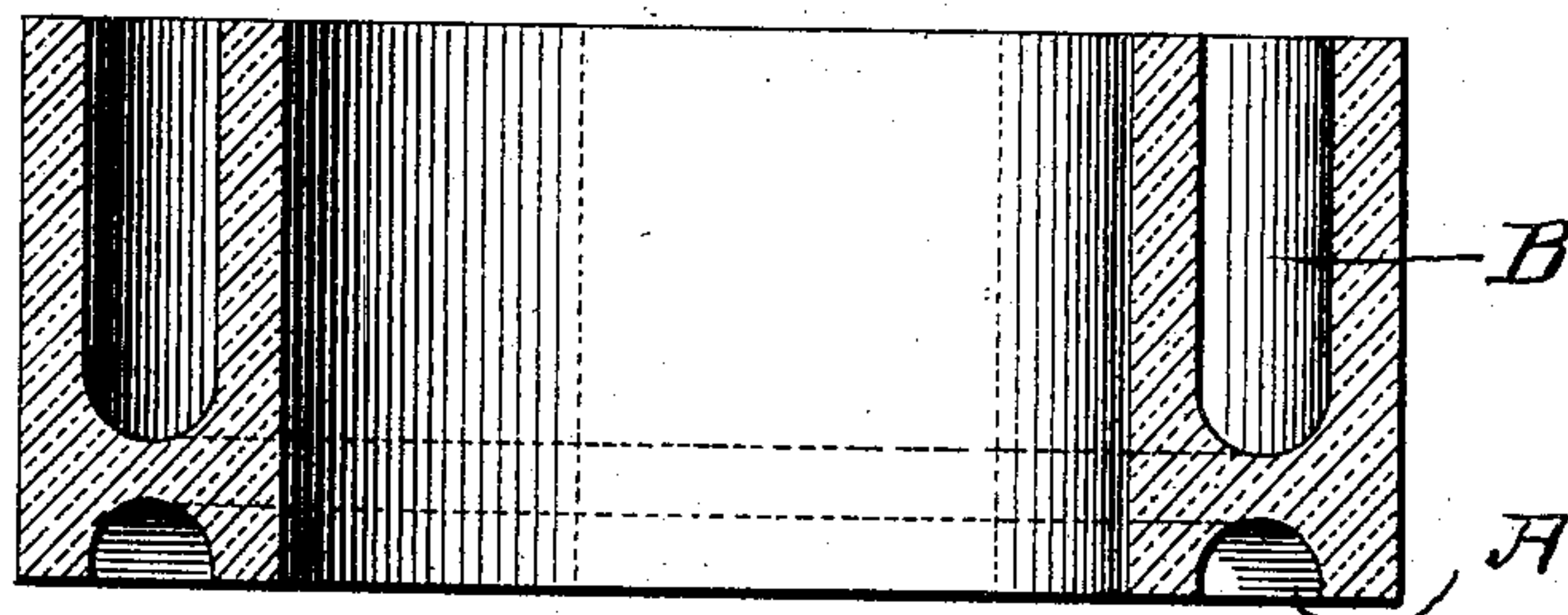


Fig. 2.



WITNESSES:

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EDWARD A. COLBY, OF NEWARK, NEW JERSEY.

CRUCIBLE.

No. 840,825.

Specification of Letters Patent.

Patented Jan. 8, 1907.

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To all whom it may concern:

Be it known that I, EDWARD A. COLBY, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented a certain new and useful Improvement in Crucibles, of which the following is a specification.

The invention relates to a crucible for use in an electrical induction-furnace wherein the charge in said crucible is melted by currents induced therein as a secondary circuit from a primary circuit in suitable proximity.

The invention consists in the construction of the crucible in annular form, provided with an annular recess in its under side.

In the accompanying drawings, Figure 1 is a plan view of the crucible. Fig. 2 is a section on the line *x-x* of Fig. 1.

Similar letters of reference indicate like parts.

The crucible is made of any suitable refractory material molded into annular form in the usual way. In its under side is formed an annular recess A. When in use in the induction-furnace, the crucible may be surrounded by the primary coil, as shown in United States Letters Patent No. 428,378,

granted to me May 20, 1890, or it may itself surround said coil.

The metal charge is placed in the chamber B.

The recess A may be used to receive a body of heat-insulating material, such as magnesia and asbestos or the like, to reduce the heat radiated from the crucible to its support, or it may be employed to receive an inducing-coil, which is thus brought near to the charge in the crucible and is also protected by the crucible-walls, or the recess may be left empty, the contained air then serving as the heat-insulating means.

I claim—

1. A crucible of refractory material in annular form having an annular recess in its under side.

2. A crucible of refractory material in annular form having one wall thinner than the other and an annular recess in its under side.

In testimony whereof I have affixed my signature in presence of two witnesses.

EDWARD A. COLBY.

Witnesses:

PARK BENJAMIN, Jr.,
WM. H. SIEGMAN.