

O. ERNST.
Building for Cremation Purposes.
No. 222,260. Patented Dec. 2, 1879.

Fig. 1

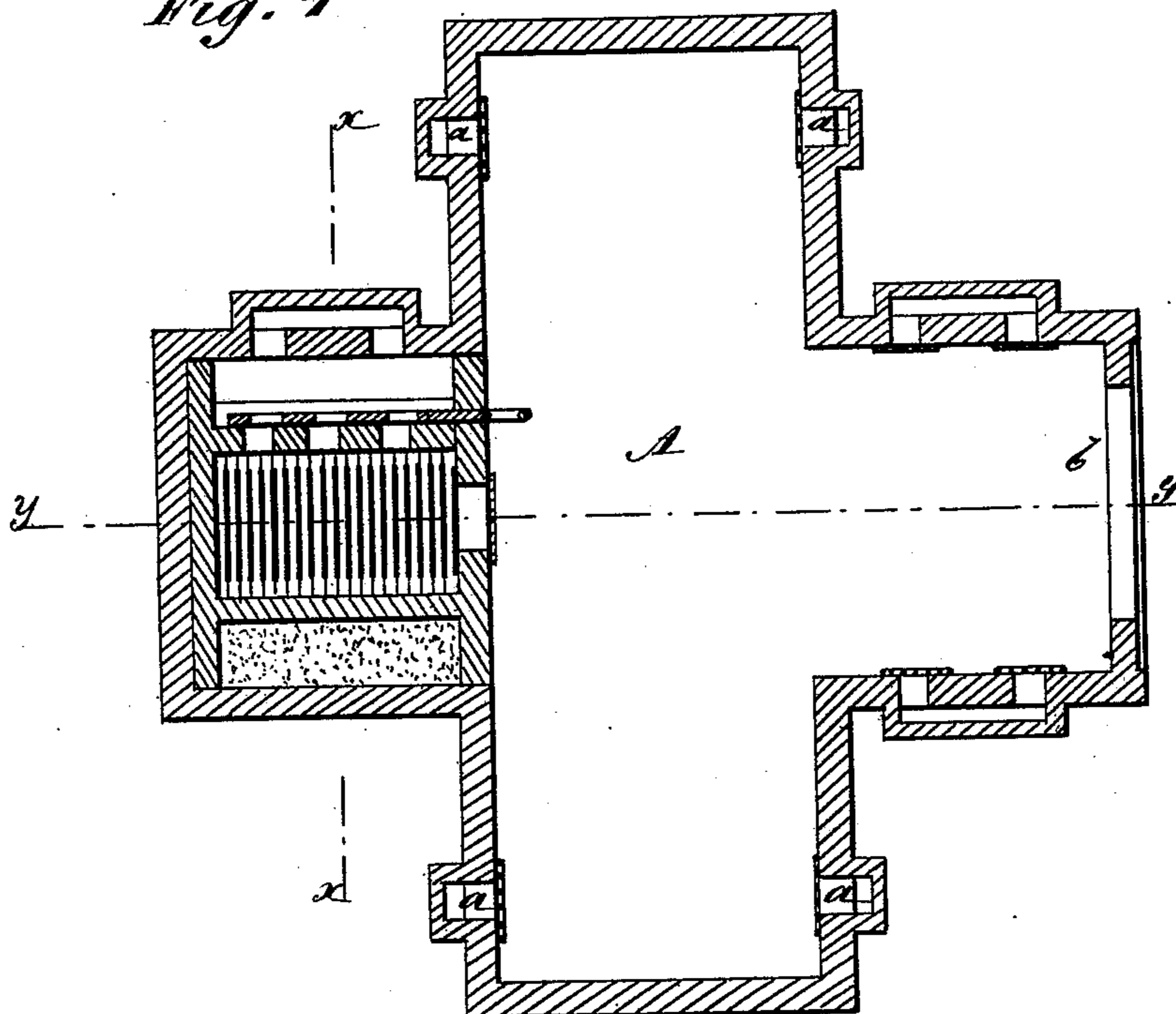
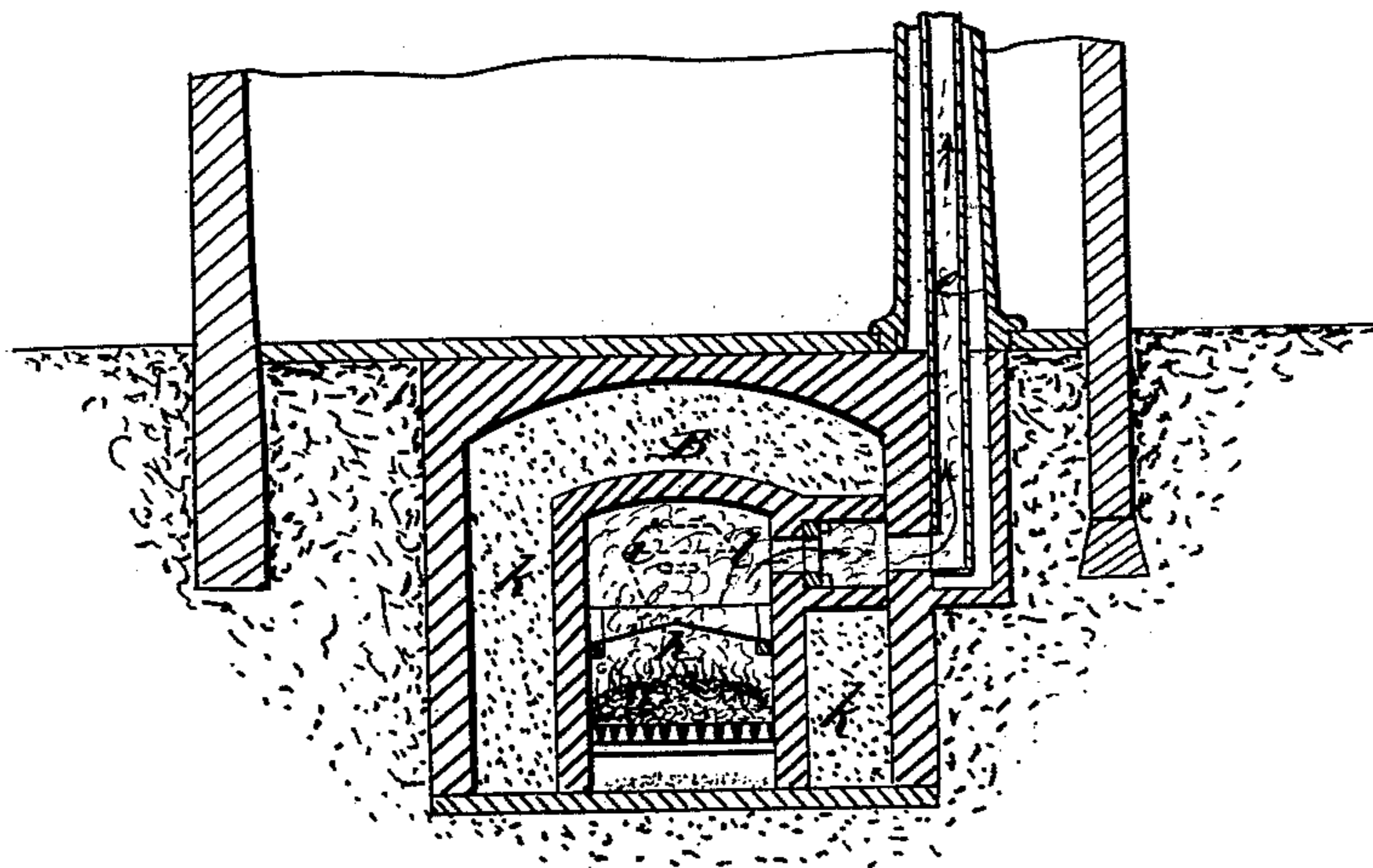


Fig. 2



WITNESSES:

C. Neveu
C. Sedgwick

INVENTOR:

O. Ernst
BY *Munroe*
ATTORNEYS.

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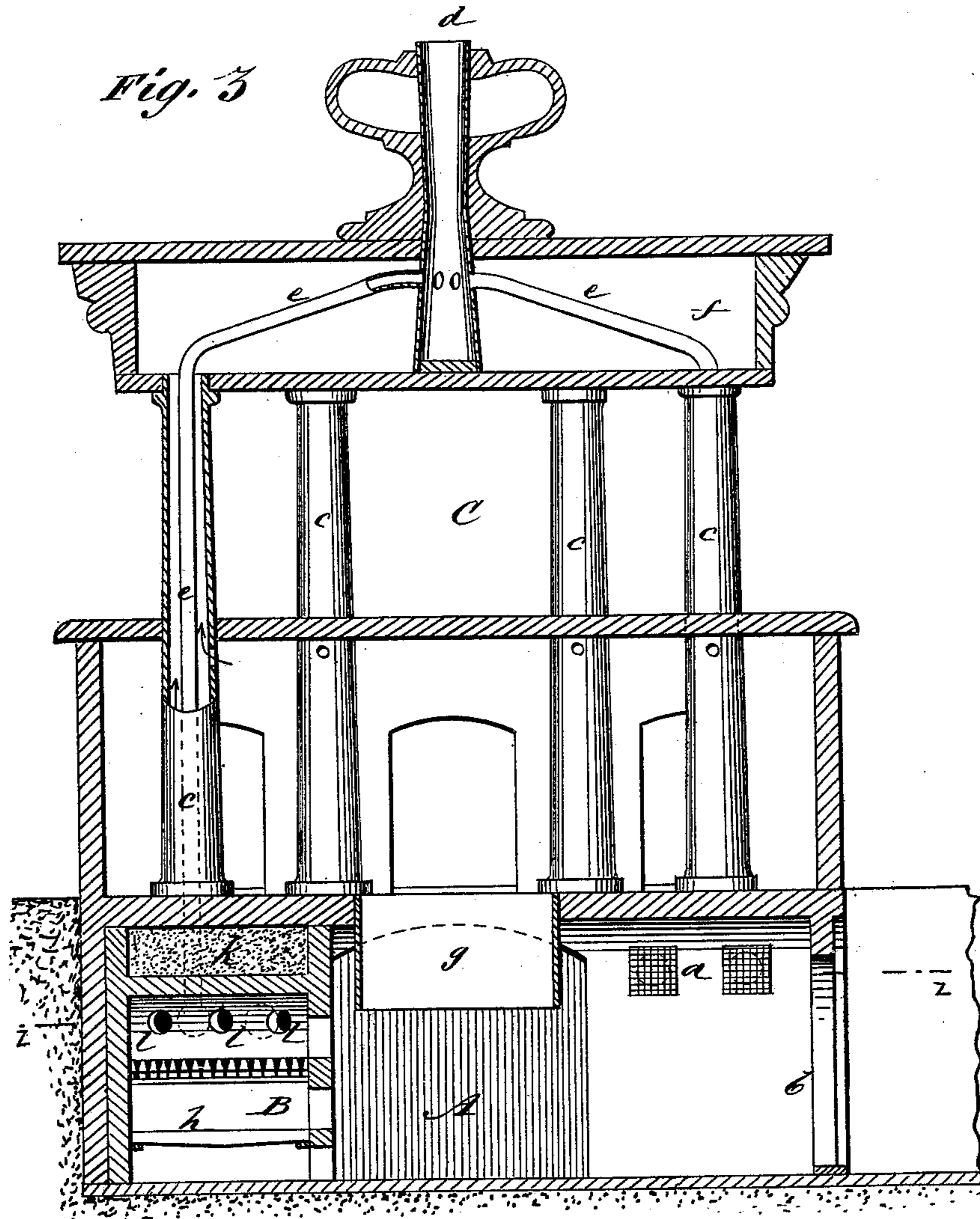


Fig. 4

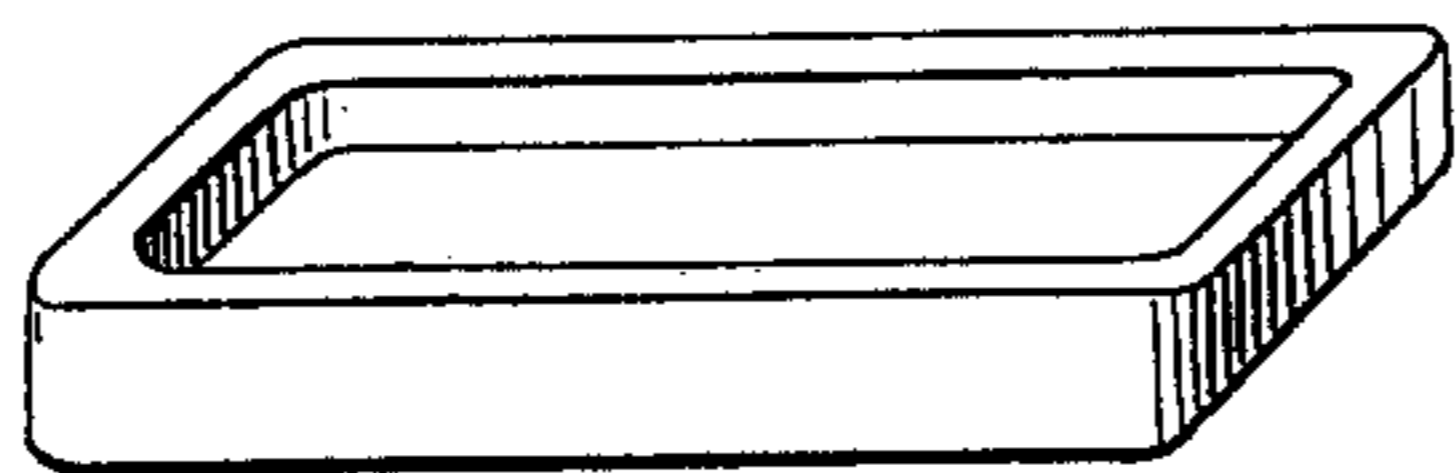
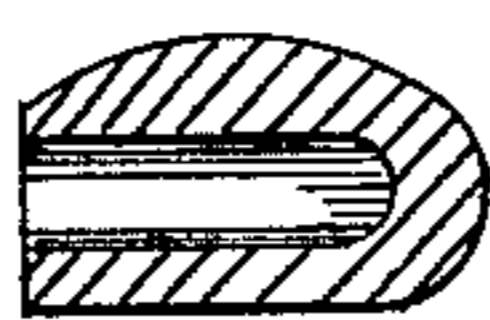


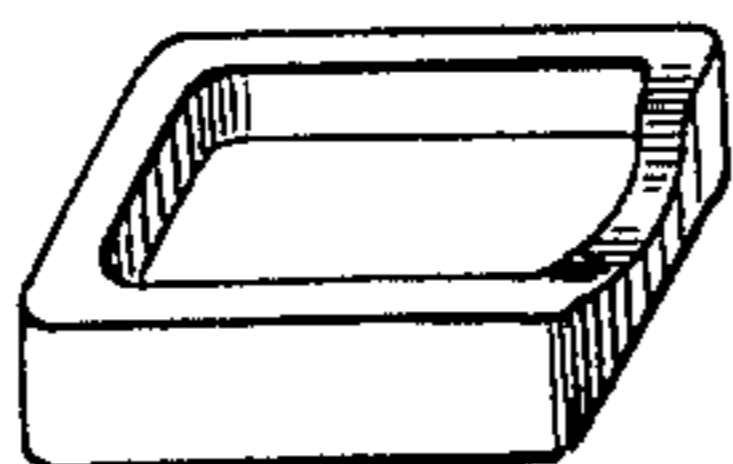
Fig. 5

Fig. 6



WITNESSES:

C. Neveu
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INVENTOR:

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UNITED STATES PATENT OFFICE.

OTTO ERNST, OF SOUTH AMBOY, NEW JERSEY.

IMPROVEMENT IN BUILDINGS FOR CREMATION PURPOSES.

Specification forming part of Letters Patent No. **222,260**, dated December 2, 1879; application filed March 6, 1879.

To all whom it may concern:

Be it known that I, OTTO ERNST, of South Amboy, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Buildings for Cremation Purposes, of which the following is a specification.

The invention consists in a certain construction of chimney-top with connecting ventilating chamber and flues, the latter inclosing smoke-flues, as an improvement in a building and furnace for cremation purposes.

The object of my invention is to associate the process of cremation with the usual practices at funerals; and the invention relates to the peculiar arrangement and construction of cremation-furnaces, in connection with a building or temple, as will be more particularly explained hereinafter, in connection with the accompanying drawings, wherein—

Figure 1 is a sectional plan view of the furnace-vaults and furnaces on line *z z*, Fig. 3. Fig. 2 is a vertical cross-section on line *x x* of Fig. 1. Fig. 3 is a sectional elevation on line *y y* of Fig. 1 of the vaults and building or temple. Figs. 4, 5, and 6 are detail views.

Similar letters of reference indicate corresponding parts.

The vault A will be under ground, preferably of cruciform shape in its ground-plan, and one or more of the wings are to be used for furnaces, as shown at B, the other parts of the vault to be used for storage of fuel and other purposes. The vault A is to be provided with ventilating-shafts *a*, and will be accessible by an entrance, *b*, at one side on a level with the ground, if there is sufficient slope, or by steps, in any desired manner.

The building or temple C is built above the vault A, and is of an ornamental character and in keeping with its intended uses. I prefer to build the same of octagonal form, with an inclosed ground-floor, and an upper open space covered by a roof that is supported on hollow columns *c*, rising from the ground-floor inside the inclosure. The chimney *d* rises from the center of the roof, and is built to have an appearance as unlike as possible to an ordinary chimney or stack. The flues *e* of

the furnaces pass through the columns *c* to the chimney, and the ventilating-openings *a* of the vault and of the inclosed floor communicate with the columns. The columns *c* open at the top into an inclosed space, *f*, in the roof, which communicates by suitable openings with the chimney. By that means thorough ventilation is secured in all parts of the building.

In the center of the ground-floor is an opening, *g*, communicating with the vault below, through which openings the coffins may be lowered, as into a grave. The object of this construction is to give space and opportunity for the usual service to giving up the body to be burned, when such public services are desired, and to follow, as far as possible, the usual forms.

In the case of private funerals the coffin can be delivered at the door *b*.

It will be understood that the building will be adorned by statuary forms, &c., as taste may require.

I do not limit myself to any particular construction for the furnaces B. They will preferably be constructed of brick, with the fire-box *h* and cremation-chamber *i*, surrounded by a space filled with non-conducting material, as at *k*, that is inclosed by the outer wall.

The cremation-chamber is above the fire-space, and communicates with the flues *e* by an opening, *l*.

Figs. 4, 5, and 6 represent receptacles for receiving the ashes of the body or any particular part thereof. These receptacles are made of fire-proof clay, and in use will be placed inside the coffin, under or around the body or parts of it. Fig. 4 is a receptacle adapted for the whole body, Fig. 5 for the head, and Fig. 6 for a hand or arm.

By the above-described construction and arrangement the usual forms connected with burials may be fully observed and carried out, and the process of cremation divested of its repugnant features.

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

1. In a building for a cremation-furnace, a

smoke-stack or chimney, *d*, connecting with the furnace by flues *e*, and with vault-ventilators by means of pillars *c* and chamber *f*, all arranged as shown and described.

2. The cremation building or temple C, having an inclosed ground-floor, a roof supported by hollow columns *e*, and a chimney, *d*, the

columns serving as passages for the furnace-flues and as ventilating-shafts, substantially as described and shown.

OTTO ERNST.

Witnesses:

GEO. D. WALKER,
C. SEDGWICK.