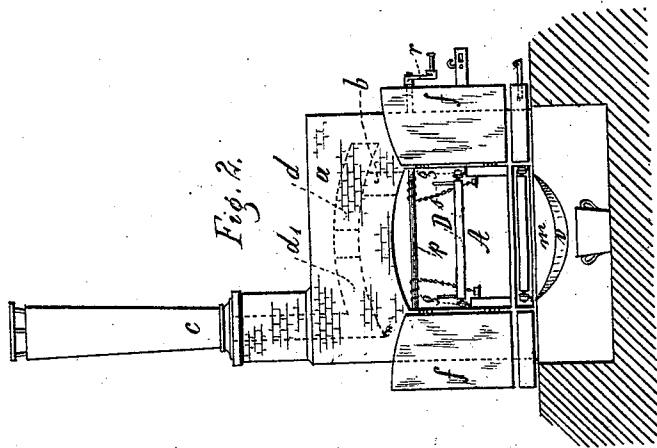
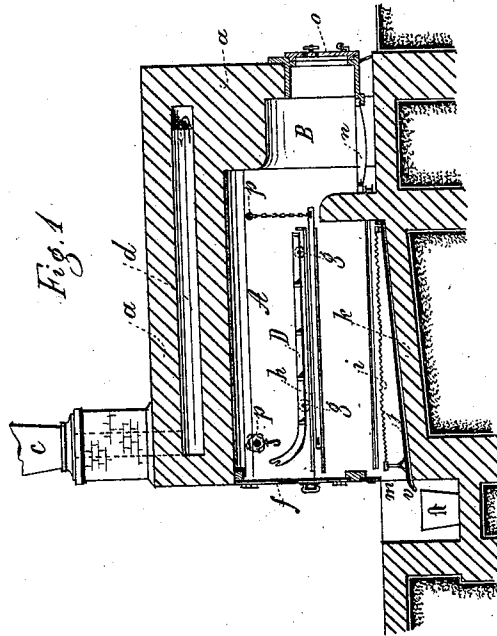


(No Model.)

J. TAMAS & E. NEMES.  
CREMATORY FURNACE.

No. 512,131.

Patented Jan. 2, 1894.



Witnesses:  
J. Dittmar  
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Inventors: Johann Tamas  
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per J. Dittmar Atty.

# UNITED STATES PATENT OFFICE.

JOHANN TAMAS AND EDMUND NEMES, OF MAROS-VÁSÁRHELY, AUSTRIA-HUNGARY.

## CREMATORY FURNACE.

SPECIFICATION forming part of Letters Patent No. 512,131, dated January 2, 1894.

Application filed October 19, 1892. Serial No. 449,374. (No model.)

*To all whom it may concern:*

Be it known that we, JOHANN TAMAS and EDMUND NEMES, subjects of the King of Hungary, residing in Maros-Vásárhely, in the comitate of Maros-Torda, Austria-Hungary, have invented certain new and useful improvements in Crematory Furnaces; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to certain improvements in crematory furnaces such as are employed for cremating or burning dead animals or human bodies and other animal matters and has for its object the provision of a furnace of this character which shall present advantages of simplicity and facility of operation over other devices of this general character heretofore devised, the construction being such that the maximum degree of heat is imparted to the cremating chamber or oven with a minimum consumption of fuel, whereby an important economy is effected.

Our invention also provides means for saving the animal oils and other fatty substances which may be produced during the operation by the action of the heat and preventing such substances from fouling the cremating chamber, all as will be more fully hereinafter set forth.

The novel features of our invention will be carefully defined in the claims.

In order that our invention may be the better understood, we have illustrated in the accompanying drawings a crematory furnace embodying our improvements, of which drawings—

Figure 1 is a longitudinal sectional view of the furnace and Fig. 2 is a rear face view of the same, the oven doors being represented as opened in order to show the parts within.

In the views *a* represents the masonry forming the walls of the furnace and *A* represents the cremating chamber or oven provided with doors *f, f*, whereby it may be tightly closed during the operation, said chamber *A* being located directly to the rear of the fireplace or furnace proper *B*, as clearly shown, which latter is also provided with close-fitting doors

*o*, and a grate *n*, of suitable form. The chamber *A* as seen in Fig. 1, forms substantially an enlargement of the fire-place *B* to the rear thereof, the flames and gaseous products of combustion passing back from such fire place into said cremating chamber over a bridge wall such as is commonly employed in furnaces.

In order that the heated products of combustion may be made to impart as great a degree of heat as possible to the oven *A*, we have shown the furnace provided with a return flue, having a short vertical branch *b*, leading up from the rear portion of the chamber *A* at one side thereof, whence branches at right angles a horizontal flue *d*, extending forward through the masonry *a*, to the forward end of the furnace and thence passing across to the opposite side of the furnace as seen at *d'* back to the rear end of the same, whence it opens to a chimney *c*, as clearly seen. By this construction it will be seen that a high degree of heat will be imparted to the chamber *A* for burning or cremating the animal matters placed therein. In order to facilitate the introduction of these matters to the chamber *A* we have provided a removable hearth *D*, consisting of a metallic frame-work of suitable form, provided with track wheels *g, g*, which roll on tracks *h*, mounted in the chamber *A* at each side thereof, said tracks being arranged at a suitable level to receive the full heat of the flames from the fire-place *B* upon the matters placed upon it. A shaft *p* extends transversely across the oven *A* at the forward end thereof, somewhat above the tracks *h*, said shaft being provided with a crank *r*, outside said oven and forming a windlass to which chains may be attached, such chains being connected at their ends to the hearth *D* whereby by simply turning said crank the hearth may be drawn into the chamber *A*.

In order that the oils and other fatty matters produced by the action of the heat during the cremation may not escape or fall to the bottom of the oven and be lost the same, we have shown an inclined trough or gutter *k*, lined with metal plates *j*, arranged in the floor of the oven, the outer end *v*, of the said trough opening through an aperture *m*, in the furnace wall into a receptacle placed thereunder

into which receptacle such oily matters fall as they are produced. These matters are often of considerable value.

To prevent the unconsumed animal matters which may fall from the hearth D during the operation from passing down into the trough and out of the oven together with oils, we have provided a wire netting *z*, extending across the chamber A beneath said hearth above said trough and adapted to receive such matters as may fall from the hearth. Thus it will be understood that our invention presents important advantages over other similar devices heretofore employed for cremating animal matters, its construction being of a very simple and inexpensive character and one which insures economy in the consumption of fuel. Further, by providing the movable hearth adapted to roll upon tracks mounted within the cremating chamber and to be transported outside the chamber upon the carriage E, the handling of the matters to be cremated, at times a very disagreeable task, is greatly facilitated. Another important advantage is the provision of the trough at the bottom of the oven and the netting arranged thereabove, whereby the oily matters produced by the heat are saved and prevented from befouling the cremating chamber as they would otherwise do.

Having thus described our invention, we claim—

1. In a crematory furnace, the combination with an oven provided with doors and tracks arranged therein, of a shaft arranged across said oven and having a crank outside thereof, and a removable hearth provided with wheels resting on the tracks in the oven, and a chain secured at one end to said shaft and adapted to be connected at its other end to said hearth, substantially as set forth.

2. In a crematory furnace, the combination with an oven, provided with doors and tracks arranged therein above the floor thereof, and a removable hearth provided with wheels resting on said tracks, of a trough, arranged in the bottom of the oven beneath said hearth and having its mouth located outside the oven, and a netting arranged across said oven between said trough and hearth, substantially as set forth.

In witness whereof we have hereunto signed our name in the presence of two subscribing witnesses.

JOHANN TAMAS.  
EDMUND NEMES.

Witnesses:

ALBERT KRAUSS,  
F. GÖTZE.