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2 SHEETS--SHEET 1.

Fig. 1



Fig. 4

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HYGIENIC WAGON AND PORTABLE FURNACE.
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912,585.

Patented Feb. 16, 1909.
2 SHEETS—SHEET 2.

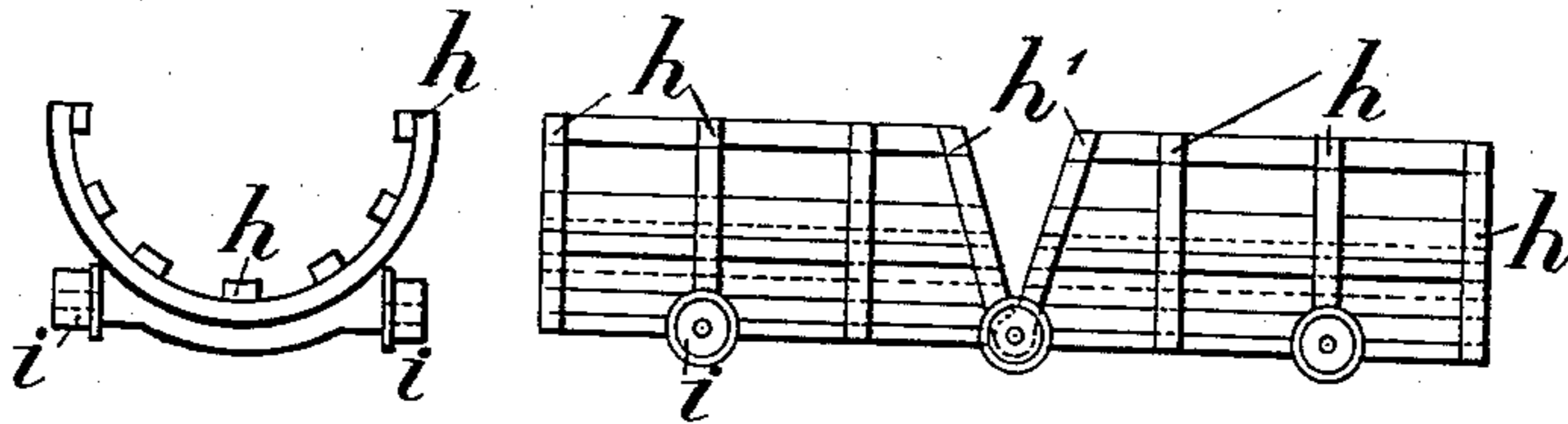
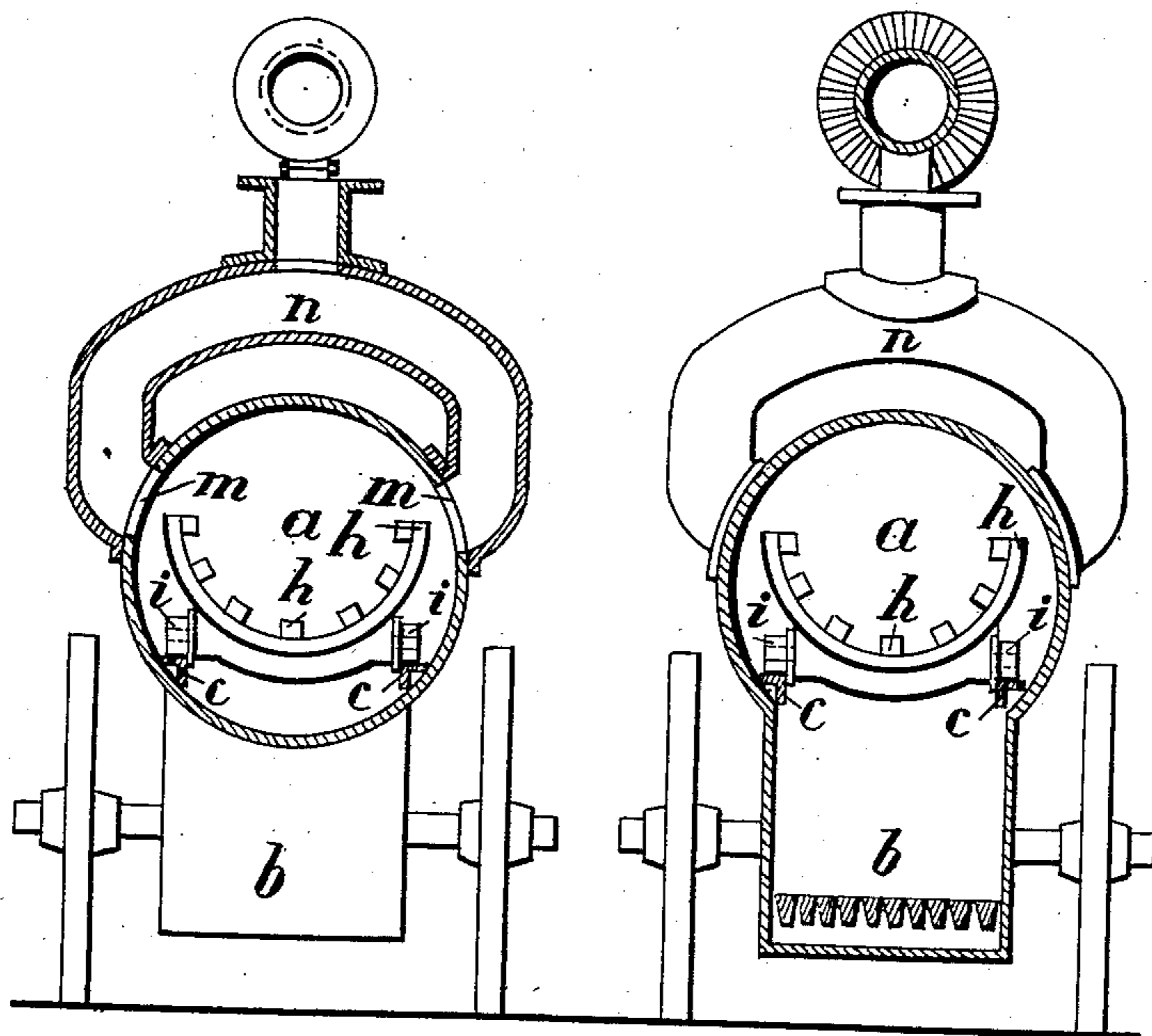


Fig. 5

Fig. 6

Fig. 2

Fig. 3



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UNITED STATES PATENT OFFICE.

DESIDER MANDEL, OF NYIRBATOR, AUSTRIA-HUNGARY.

HYGIENIC WAGON AND PORTABLE FURNACE.

No. 912,585.

Specification of Letters Patent.

Patented Feb. 16, 1909.

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To all whom it may concern:

Be it known that I, DESIDER MANDEL, a subject of the King of Hungary, residing at Nyirbator, in Austria-Hungary, have invented certain new and useful Improvements in Hygienic Wagons and Portable Furnaces, of which the following is a specification.

The present invention relates to a hygienic wagon or furnace for transporting dead bodies of animals and the like, one object being to avoid handling of the bodies.

Another object is to enable the bodies to be burned upon the spot thus avoiding transportation to a furnace at a distance, and in this connection the invention comprises the combination of a furnace with the improved wagon.

A further object is to provide a wagon of very simple construction so as to minimize the cost which is important when the purpose of the invention is considered.

In the accompanying drawings, Figure 1 is a longitudinal section of one form of the combined portable wagon and furnace. Fig. 2 is a cross section on the line A B of Fig. 1. Fig. 3 is a cross section on the line C D of Fig. 1. Fig. 4 is a section on the line E F of Fig. 1. Fig. 5 is an end elevation and Fig. 6 a side elevation of the cradle for moving the body. Fig. 7 shows in diagram a form of construction for the transport of animal bodies.

In carrying out the invention according to one mode the combined wagon and furnace made of sheet iron resembles in form a locomotive boiler mounted on wheels comprising a barrel or main portion *a*, provided with a fire box *b*. The interior is fitted with angle-irons *c c*, on which run rollers of a cradle or carriage (Figs. 5 and 6) containing the body. A door *d*, closes the end of the chamber through which the body is introduced. The body can be introduced without it being necessary even to touch it. For this purpose the cradle shown in Figs. 5 and 6 is employed, the cradle being pulled by a winch *f*, up a track *e*, consisting of two angle irons or the like. The angle irons forming the track *e*, are stiffened by curved bars *g*. The winch *f* is fitted with a worm wheel and is actuated by the worm *p*, rotated by the crank *o*. The last mentioned parts are only indicated diagrammatically in the drawing.

The cradle is made of iron bars *h*, and in two parts. It is provided with six wheels *i*,

the axle of the middle pair of wheels forming a link, connecting the halves of the cradle together. This arrangement enables the cradle to adapt itself to the angularity of the track *e*. In order that the cradle may also be able to follow the lower angularity of the track *e*, the iron bars *h*¹, which support the middle axle forming the link, are inclined to each other at a corresponding angle.

The track *e*, consists of three or more parts *e*¹ *e*² *e*³, connected together by means of fish plates *k*, or in some other easily detachable manner, so that the track may at any time be easily put together and taken apart. During transport the track *e*, taken to pieces, may be suspended from the sides of the wagon. The track *e*, when put together is attached by means of the upper fish plate *k*, to the ends of the angle irons *c*.

The products of combustion from the furnace escape through a suitable stack preferably of the hinged type and in the form of construction shown in the drawings, the part of the stack which is attached to the furnace is of special construction. For example, if the stack were attached to the top of the furnace in the usual manner, then the light combustion gases would rise directly into the stack without passing through the body. In order to avoid this the openings *m*, in the combustion chamber leading to the stack are arranged at the side the gases being conducted through the pipe *n*, into the stack. This arrangement enables the temperature of the furnace to be considerably increased and the most efficient use is made of the fuel thus resulting in an increased efficiency of the furnace and economy in fuel.

The device is used as follows:—The furnace is transported to the body and then the track *e*, is put together and fitted to the end of the angle irons *c*. Then by turning back the crank *o*, a corresponding portion of the chain or the cord is unwound from the winch *f*. A hook is arranged on the end of this chain which is drawn out of the furnace, if necessary, by means of a rod. This hook is then fastened into the body. Then the empty cradle is drawn forward out of the furnace and pushed on to the track *e*. Immediately this is effected the body is drawn onto the cradle and both are drawn into the wagon by means of the winch. Now the furnace is closed and the body burned. An

opening *g*, is formed in the furnace for pulling the chain through; this opening is also closed during the process of combustion.

Sterilization of the instruments required for dissecting can be effected in a vessel *r* (shown in dotted lines in Fig. 1) filled with water or with some sterilizing fluid and arranged preferably on the door *e*, of the furnace or otherwise so that it is heated by the hot combustion gases.

In Fig. 7 the invention is shown as a simple transport wagon for bodies, the furnace being dispensed with. This enables a body to be transported in a perfectly hygienic manner, the body being drawn into the wagon without being touched; in this case the winch is arranged at the front of the wagon.

What I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. A portable vehicle for the conveyance of carcasses comprising in combination a closable chamber mounted on wheels having a door at the end thereof, a cradle adapted to receive the carcass and mounted on wheels, rails longitudinally located in said

chamber, a trackway attachable at one end to said rails and adapted to extend to and rest upon the ground and a hoisting apparatus located at the inner end of the chamber for drawing the cradle, and carcass into the furnace.

2. A portable vehicle for the conveyance and combustion of carcasses comprising in combination a closable furnace chamber mounted on wheels in the manner of a road-locomotive having a door at the end thereof; a cradle adapted to receive the carcass, and mounted on wheels, rails longitudinally located in said chamber, a trackway attachable at one end to said rails and adapted to extend to and rest upon the ground and a hoisting apparatus located at the inner end of the chamber for drawing the cradle and carcass into the furnace.

In witness whereof I have signed this specification in the presence of two witnesses.

DESIDER MANDEL.

Witnesses:

ERNEST MELIER,
CHARLES EDWARD ZALUN.