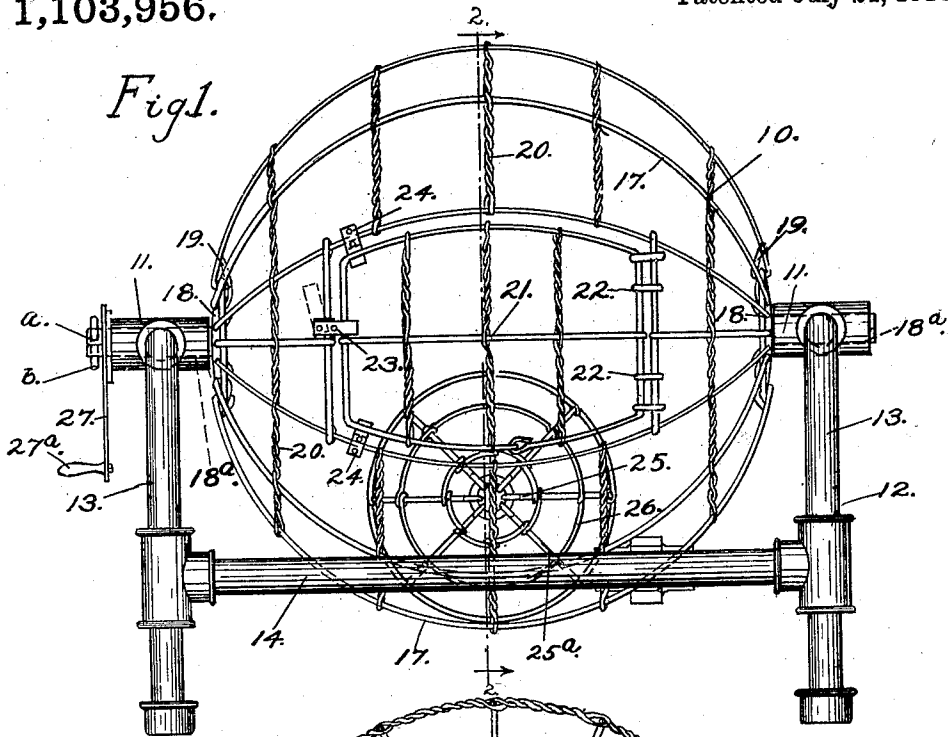
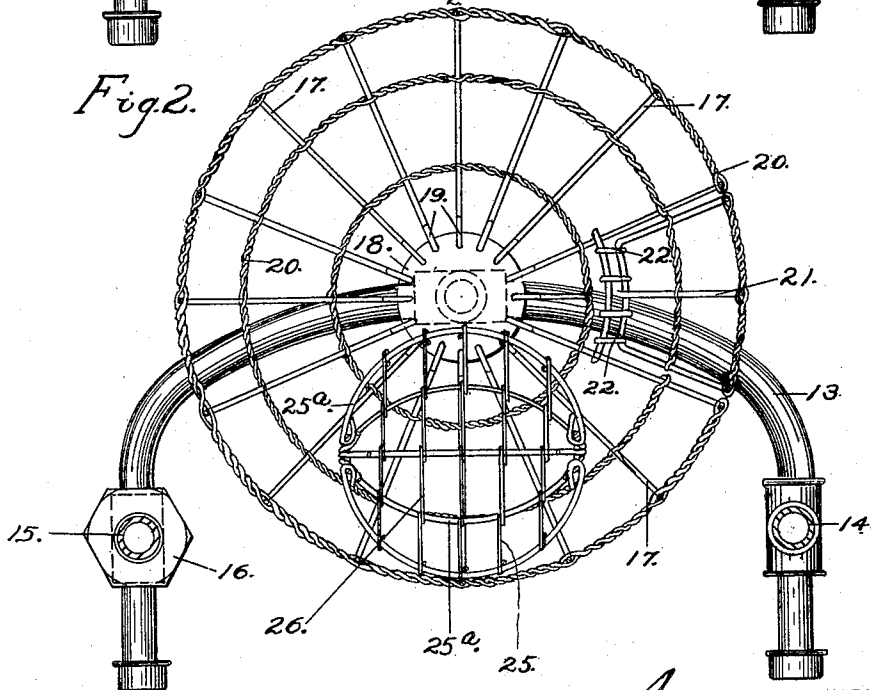


P. GOEDEN.
INCINERATOR.
APPLICATION FILED DEC. 6, 1913

Patented July 21, 1914.

1,103,956.



WITNESSES:

J. B. Lagorio.
H. M. Gillespie

Peter Goeden
INVENTOR.
BY *Barnett Truman*
ATTORNEYS

UNITED STATES PATENT OFFICE.

PETER GOEDEN, OF CHICAGO, ILLINOIS.

INCINERATOR.

1,103,956.

Specification of Letters Patent.

Patented July 21, 1914.

Application filed December 6, 1913. Serial No. 895,116.

To all whom it may concern:

Be it known that I PETER GOEDEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Incinerators, of which the following is a specification.

My invention relates to incinerators and has as its object to provide an incinerator particularly for burning paper and other like refuse, which will be light, strong, durable and inexpensive to manufacture, which will allow the ashes to sift out or be discharged as the material is consumed and, furthermore, which will promote and facilitate the combustion of the material by allowing the flames to penetrate into the center of the mass, by keeping the material in loose and separated condition and by shifting the mass of material as a whole and its parts relative to each other so that new, unconsumed portions of the material are constantly brought into contact with the flames or ignited material.

The invention has as further objects the arrangements, construction and combination of parts hereinafter described and claimed.

The preferred embodiment of my invention is illustrated in the accompanying drawing, in which like characters of reference designate like parts, and in which—

Figure 1 is a side elevation of my improved incinerator, and Fig. 2 is a vertical, sectional view taken on line 2—2 of Fig. 1.

Referring to the drawing, 10 designates a hollow, reticulated, spherical body journaled in bearings 11 on a frame 12. The frame may be constructed in any suitable manner. I have shown the frame as being composed of pipes 13 bent so as to form arched supporting members connected together with pipes 14, 15, which are united to pipes 13 by unions 16.

The body or containing element 10 preferably comprises a plurality of bowed rods or wires 17 having their ends secured to disks 18 mounted on stub shafts 18^a. The rods 17 may be secured to the disks in any suitable manner, as, for example, by inserting their ends through apertures in the disk and bending them over as shown at 19. The rods 17 are spaced at a predetermined distance from each other and are held in position by a plurality of rods or twisted wires 20 which loop around each of the

bowed rods and thereby provide a very strong, relatively rigid construction which will not be easily destroyed by heat. The number of bowed rods 17 and connecting wires 20 used for any particular device should be determined from the size of the mesh desired by considering the purpose for which the device is made, for example, when the material desired to be incinerated is paper, leaves or the like, the body can be made with a much larger mesh than would be desirable to use when burning refuse composed of smaller particles containing considerable moisture. A door 21 is hinged to the body by links 22 and may be locked in its closed position by means of the latch 23 which, when turned to the position shown in full lines, will hold the door against the stops 24.

Within the body I preferably provide a smaller spherical hollow body 25 of reticulated character which is constructed of bowed rods or wires 25^a and connecting wires 26 looped around the same so as to form a structure generally similar to the containing element 10. The latter is provided with suitable means for rotating it, for example, a crank 27.

In using the incinerator the refuse to be burned is deposited in the container 10 and ignited. After the refuse has begun to burn, the container is rotated or gradually turned from time to time by means of the crank 27. The rotation of the container sifts out the ashes, keeps the material from matting and packing, and brings new surfaces of the mass into contact with the flames. The agitator aids in promoting and facilitating combustion and in sifting out the ashes by effecting a separation and agitation of the mass, and by providing a space or opening into the body of material into which the flames may penetrate. The construction of both elements 10 and 25 is such that they are not easily damaged by heat. If any of the wires should burn out, it is an easy matter to replace them. In addition the device is light and compact in its structure so that it may be readily moved from place to place.

While I have described my invention in its preferred embodiment, it will be understood that modifications might be made without departing from the invention. Therefore, I do not wish to limit myself to

the exact structure described except so far as limited by the express language of the appended claims.

Preferably the arm 27 is counterweighted either by means of the handle 27^a or otherwise so that normally the cage will assume the position where the door is always uppermost when the device is at rest. While this arrangement is not shown in the drawing, nevertheless it will be noted that in the drawing the arm 27 is pivoted over a square shank *a* held by a cotter pin *b*. Consequently the arm can be set at any desired angular position, but for purposes of convenient illustration it is more readily shown in the position which appears in Fig. 1.

I claim:

1. An incinerator for paper refuse and the like, comprising a supporting frame, a reticulated container revolubly mounted on said frame, and a separating and agitating element adapted to lie free in said container.

2. An incinerator for paper refuse and the like, comprising a supporting frame, a reticulated container revolubly mounted on said frame, and a reticulated separating and agitating element in said container.

3. An incinerator for paper refuse and the like, comprising a supporting frame, a

spherical, reticulated container revolubly mounted on said frame, and a spherical reticulated separating and agitating element in said container.

4. An incinerator for paper refuse and the like, comprising a spherical, reticulated container formed of interwoven wires and provided with oppositely arranged journals and with a crank on one of said journals, a supporting frame with bearings for said journals, and a spherical, reticulated separating and agitating element formed of interwoven wires in said container.

5. An incinerator for paper refuse and the like, comprising a spherical, reticulated container formed of a plurality of arched wires and provided with oppositely arranged journals to which the ends of said wires are secured, wires extending around said container and secured to each of said arched wires, a supporting frame on which said container is rotatably mounted, and a spherical reticulated separating and agitating element formed of interwoven wires in said container.

PETER GOEDEN.

Witnesses:

L. A. FALKENBERG,

G. Y. SKINNER.