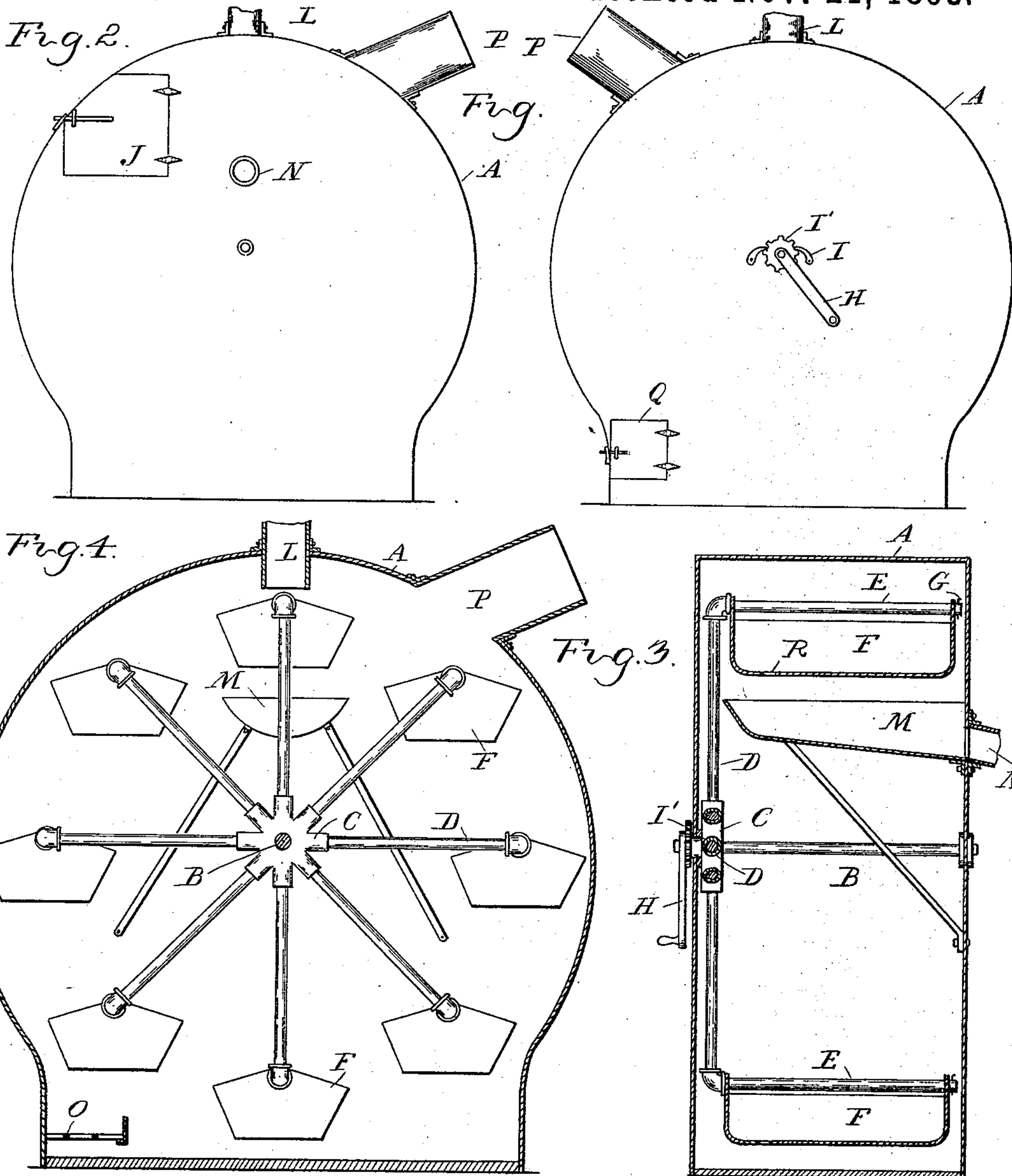


(No Model.)

J. MANN.
GARBAGE OR RUBBISH DRIER.

No. 509,177.

Patented Nov. 21, 1893.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES MANN, OF DOWAGIAC, MICHIGAN.

GARBAGE OR RUBBISH DRIER.

SPECIFICATION forming part of Letters Patent No. 509,177, dated November 21, 1893.

Application filed March 27, 1893. Serial No. 467,796. (No model.)

To all whom it may concern:

Be it known that I, JAMES MANN, a citizen of the United States, residing at Dowagiac, in the county of Cass and State of Michigan, have invented certain new and useful Improvements in Garbage or Rubbish Driers, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the peculiar construction of a garbage or rubbish drier, in which refuse of any kind either solid or partially solid and partially fluid may be subjected to heat and burned, the fluid being carried away by suitable drainage arrangements.

The invention further consists in the peculiar construction of a frame having a series of buckets or pans circumferentially arranged therein and means for rotating the frame to bring the pan successively under an inlet aperture and drainage tank beneath that pan which is under the inlet aperture, and a furnace for giving the necessary heat to the device.

The invention further consists in the peculiar arrangement, construction and combination of the various parts.

In the drawings, Figure 1 is a front elevation of my improved machine. Fig. 2 is a rear elevation thereof. Fig. 3 is a vertical, central cross section partly in elevation. Fig. 4 is a front elevation with the front casing removed, showing the revolving frame within.

A is a casing preferably of metal and preferably having a circular top.

B is a shaft journaled centrally of the casing. On this shaft is secured a suitable frame. The construction of frame I prefer is that shown in the drawings, consisting of a hub C secured to the shaft at one side of the casing and having a number of arms or spokes D secured therein and extending to near the outer face of the casing at the end.

These spokes are provided with laterally extending shafts E. Upon these shafts are pivoted buckets F, adjustably secured in position by means of keys G or by any other suitable device.

H is a crank arm at the front of the machine, secured to the shaft B and by means of which it may be rotated.

I are pawls secured to the casing and engaging the ratchet wheel I' on the shaft for holding it in its adjusted position.

J is a door in the rear casing through which the buckets F may be removed.

L is an inlet opening preferably at the top of the casing and M is a drainage pan or tank arranged in line with the inlet aperture and beneath that bucket which may be beneath the inlet aperture. This drainage pan connects with the exit pipe N which connects with a suitable sewer or cesspool.

O is a suitable furnace or grate arranged near the bottom of the casing and P is a suitable smoke pipe arranged opposite said furnace.

Q is the furnace door.

The parts being thus constructed and the buckets being emptied, such rubbish or garbage as falls into the casing through the inlet pipe L will fall into that bucket, which is beneath that inlet pipe. All the buckets are preferably provided with apertures R by means of which the fluid will drain from the bucket into the drainage M and pass through the pipe N into the cesspool. Odors or vapors from the solid matter will find exit through the pipe P into the chimney, being carried up by the draft arising from the fire in the furnace O. The first bucket being filled, the operator can turn the frame by means of the crank H and bring another bucket into position for use. When the buckets are all filled, the heat from the furnace will have evaporated all the fluids from the solid matter, and the buckets may then be taken out and emptied as they reach the door J and replaced for another use.

While I have shown the casing supplied with a furnace the furnace is not an absolutely essential element as the contents of the buckets will naturally dry in a very short time.

What I claim as my invention is—

1. In a garbage or rubbish drier, the combination of a casing, having an inlet aperture at its top, a frame journaled in the casing, a series of removable horizontally arranged buckets pivoted circumferentially on the frame, and means for intermittently rotating the frame to bring the buckets successively beneath the inlet, substantially as described.

2. In a garbage or rubbish drier, the combination of a casing, a shaft journaled within the casing, a hub secured to the shaft at one side of the casing, arms extending therefrom, 5 a series of lateral shafts on the ends of the arms extending at one side thereof, buckets pivoted on said lateral shaft having drain apertures in the bottom, an inlet aperture, means for intermittently rotating the frame 10 to bring the buckets successively beneath the inlet and a drainage pan beneath the bucket located under the inlet, substantially as described.

3. In a garbage or rubbish drier, the combination with a casing, of a shaft journaled 15 therein, radial arms secured to the shaft at one end only, lateral extensions on the outer

ends of the arms, and removable buckets on the extensions, substantially as described.

4. In a garbage or rubbish drier, the combination with a casing, of a shaft in the casing, a series of radial arms secured at one end only of the shaft, lateral extensions on the outer ends of the arms, buckets on the extensions, and a pan interposed between the 25 lateral extensions and shaft, substantially as described.

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

JAMES MANN.

Witnesses:

A. M. MOON,
E. B. JEWELL.