

(No Model.)

2 Sheets—Sheet 1.

W. NEDWIED.
COFFEE ROASTER.

No. 466,863.

Patented Jan. 12, 1892.

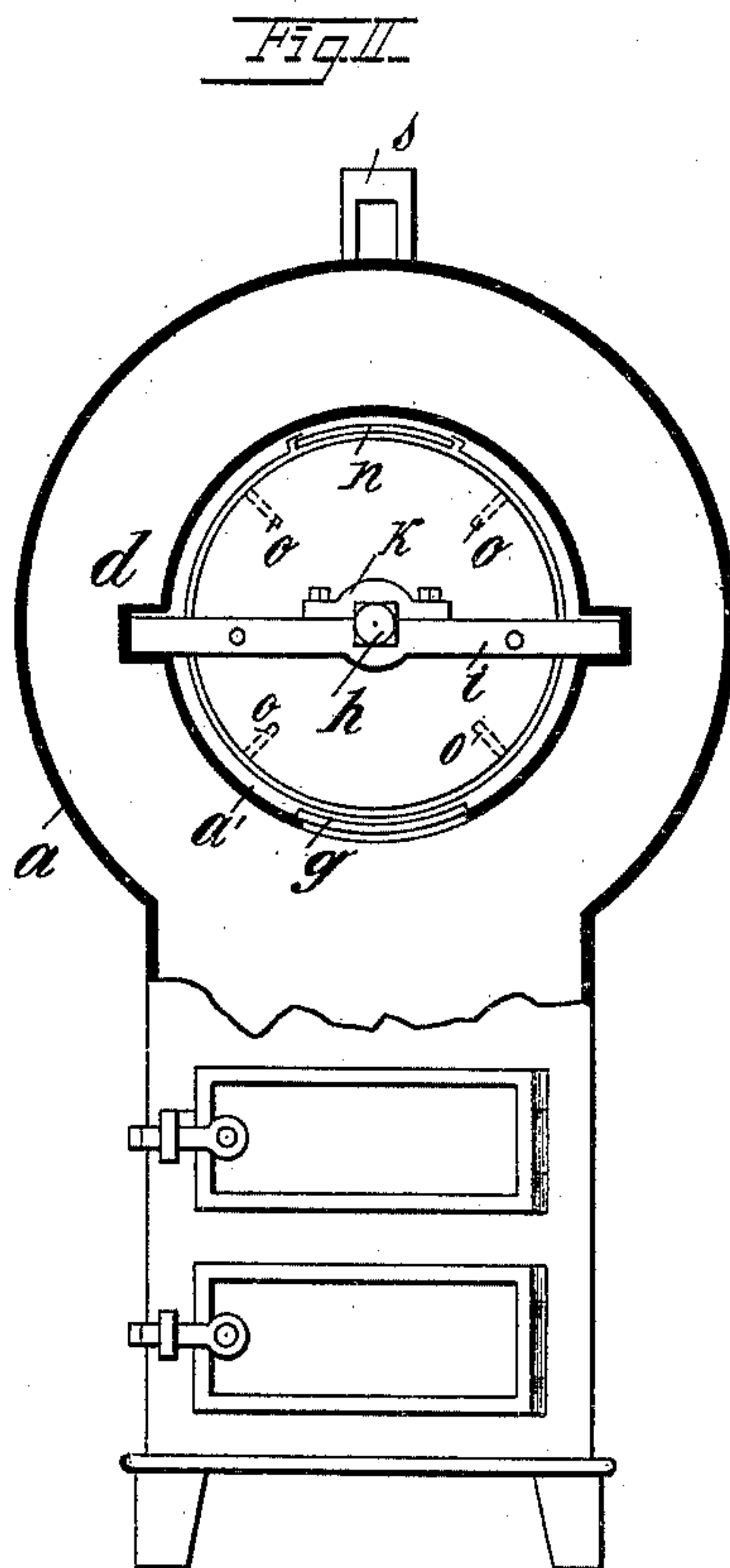
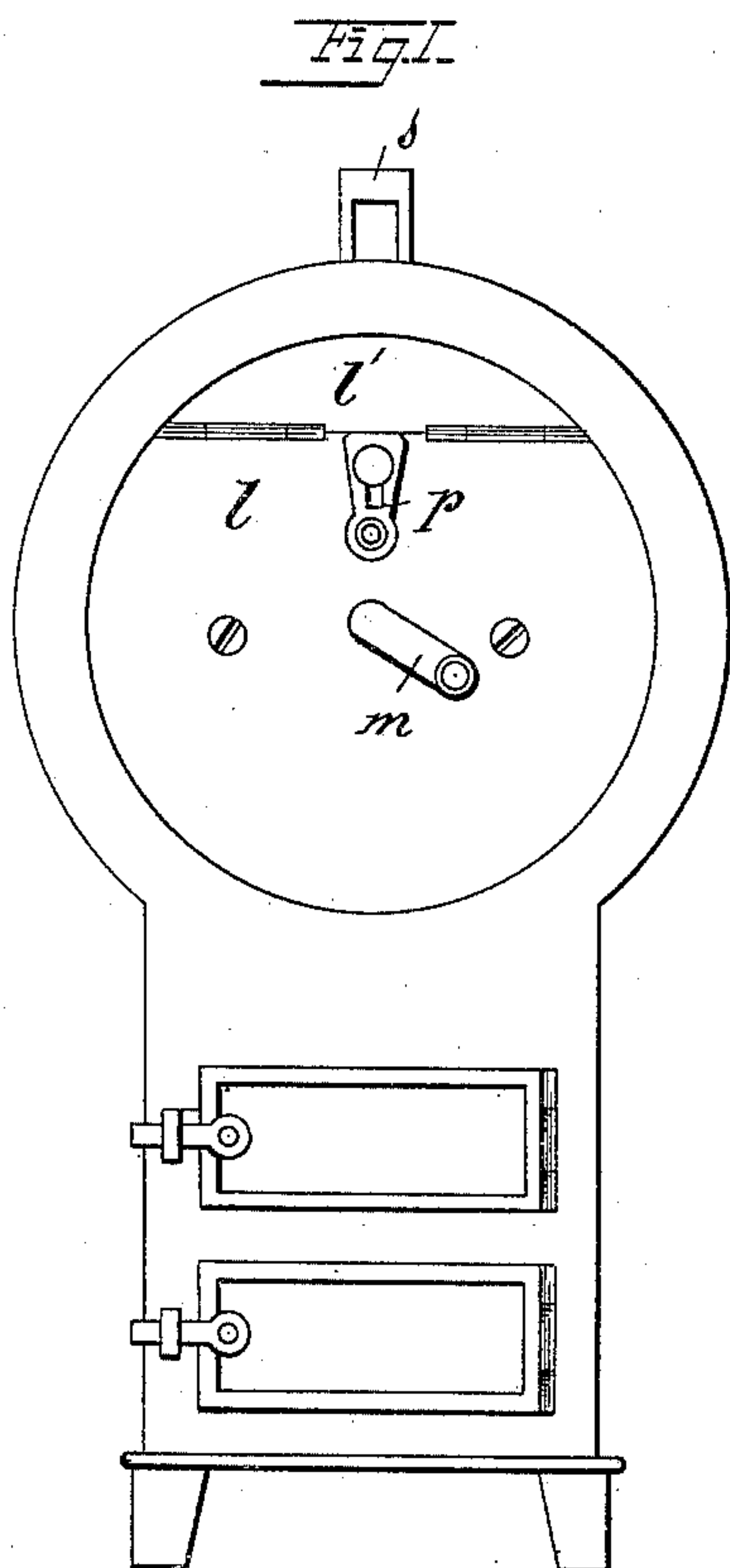
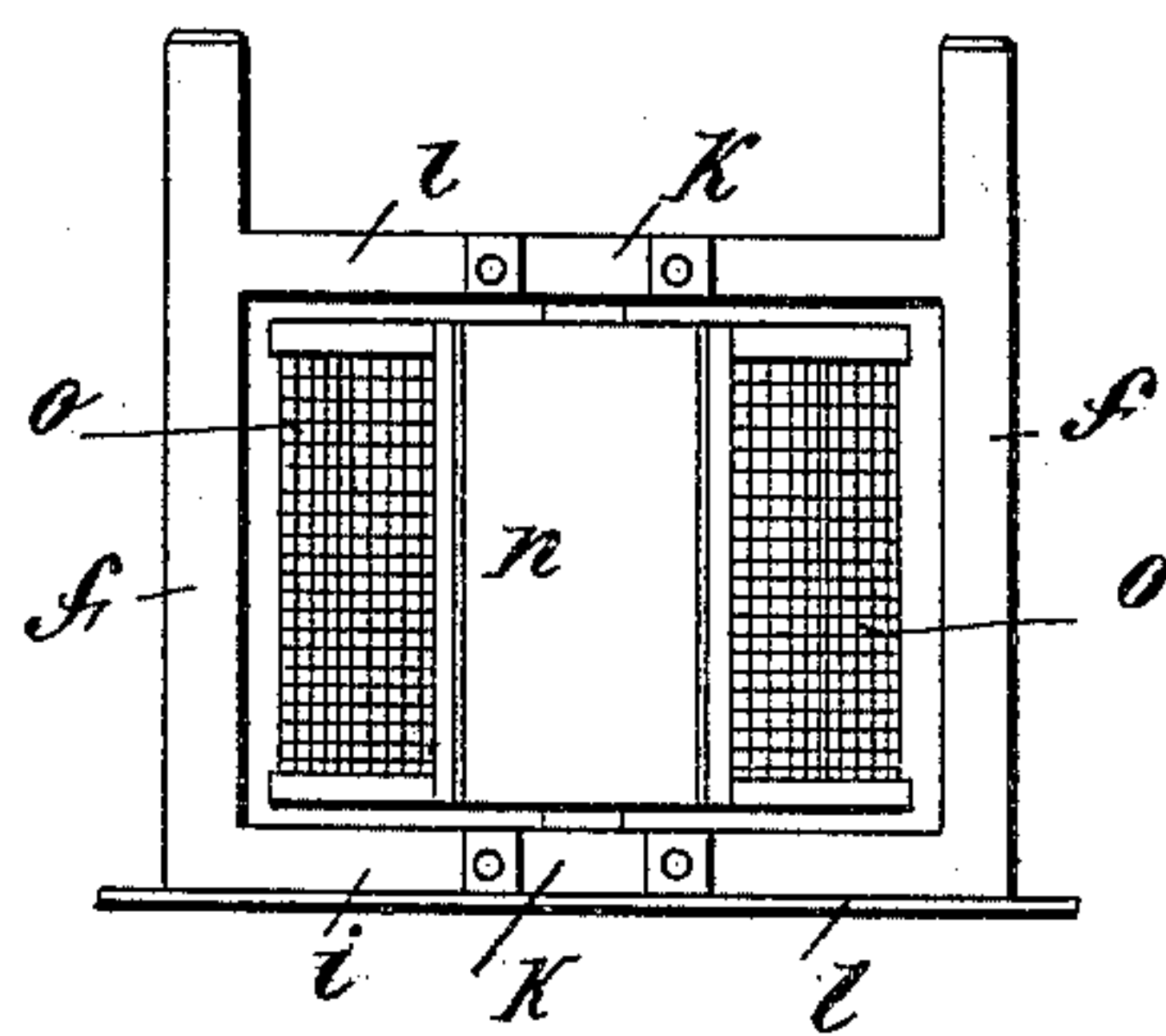


Fig. III.



Witnesses
W. V. Keene
J. L. Middleton

Inventor—
Wilhelm Nedwied
by Ellis Spear
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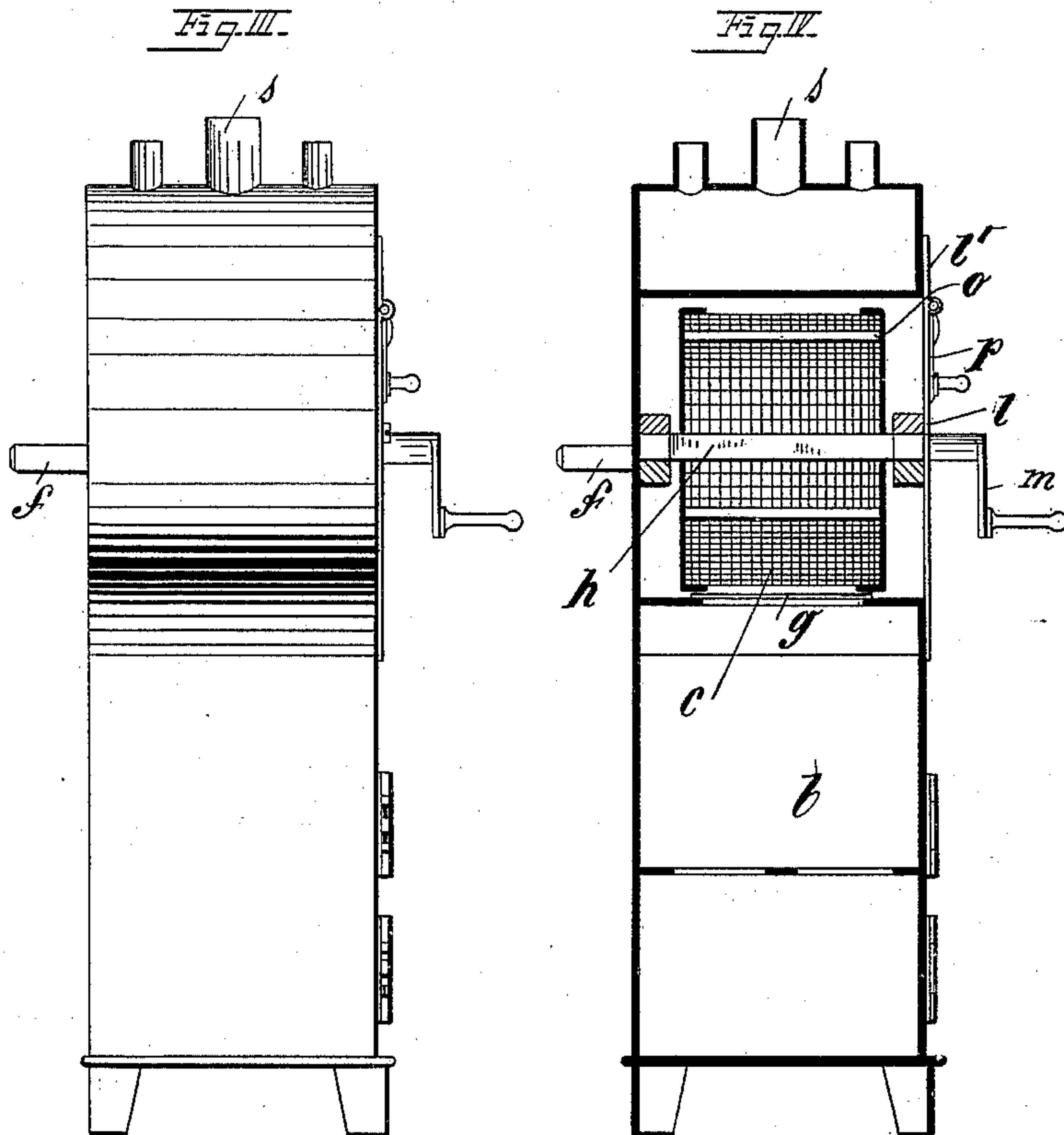
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by Ellis Spear Atty.

UNITED STATES PATENT OFFICE.

WILHELM NEDWIED, OF SCHLAN, AUSTRIA-HUNGARY.

COFFEE-ROASTER.

SPECIFICATION forming part of Letters Patent No. 466,863, dated January 12, 1892.

Application filed December 10, 1890. Serial No. 374,219. (No model.)

To all whom it may concern:

Be it known that I, WILHELM NEDWIED, merchant, of Schlan, in the Kingdom of Bohemia, Austria-Hungary, have invented a new and useful Coffee-Roaster, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a coffee-roaster.

The hereinafter-described apparatus is to serve for roasting coffee, drying malt, and for similar purposes. It consists of a casing, preferably of cast-iron, which, to prevent cracking, is preferably made in two parts, of which the lower only comes in contact with the flame. For the better utilization of the heat it is desirable to set this casing (the oven) in brick-work, much fuel being saved and the cost of roasting is reduced to a minimum.

The annexed drawings show the construction of this apparatus. Figure I is a front view of the casing; Fig. II, a partial longitudinal section (front view) through the casing, with the drum, the front plate removed; Fig. III, a side view of the casing; Fig. IV, a transverse section through the drum; Fig. V, a top view of the roasting-drum, with carrying-frame and front plate of same.

As already stated, the apparatus consists of a casing with double sides *a* and *a'* and the adjoining heating-chamber *b* and a removable roasting-drum *c*, of woven wire, for example. The inner wall *a'* of the casing has at the lower side an aperture, closed by a removable section *g*, and at each side there is formed a rectangular bar groove *d*, in which the long bars of the drum-frame readily slide, and these bars also pass through the rear wall of the casing. The drum *c* has a spindle *h*, for which bearings are provided in the cross-bars *i* of the drum-frame, the bearings having covers *k*. The spindle passes through the front plate *l*, which is secured to the drum-frame *c*, and terminates in a crank *m*. On the periphery of the drum *c* is provided a removable plate *n*, sliding in guides, and this closes the aperture for feeding in the material to be roasted. On the inside of the periphery of the drum four wings *o* (strips of metal or ribs) are provided and serve as beaters. The upper part *l'* of the front plate moves on hinges, so that it can readily be let

down, allowing the progress of the roasting to be watched. When raised, the flap *l'* is held by a fastener *p*.

The roasting process is carried out as follows: When the furnace has been fed with fuel and the drum, withdrawn for that purpose, has been charged with the material to be operated upon, the said drum is closed by the slide *n*, pushed back into the casing, and rotated. The charge does not come in direct contact with the flame, and consequently will not taste smoky and is not burned as the flame passes below along the walls *a* *a'*, while the smoke escapes by the chimney *s*, and therefore the flame acts upon the charge in the drum indirectly, but with great regularity. That part of the casing which most readily suffers by the flames—that is to say, the plate *g*—can readily be replaced when burned through without effecting the remainder of the casing. It will be seen that as the front plate *l* is secured to the drum-frame it moves with said frame in removing or replacing the drum in the cylinder, and it thus acts as a cover for the cylinder, opening and closing the same by the action of removing and replacing the drum. By dropping the flap *l'* of the front plate the state of the coffee-berries can be ascertained without requiring the entire removal of the drum, it being necessary only to partially withdraw the drum for the purpose when the flap is let down.

I claim as my invention—

The combination, in a coffee-roaster, of the inner and outer walls, a cylinder carried upon a sliding frame contained within the chamber formed by the inner wall, and a front plate secured to the frame of the cylinder and moving therewith, forming a covering for the opening in the front of the roasting-chamber, said front plate having a hinged flap, whereby the cylinder may be partially withdrawn and its contents inspected by lowering the flap, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

WILHELM NEDWIED.

Witnesses:

TH. WALDOPH,
SAMUEL FISCHER.