

No. 698,445.

Patented Apr. 29, 1902.

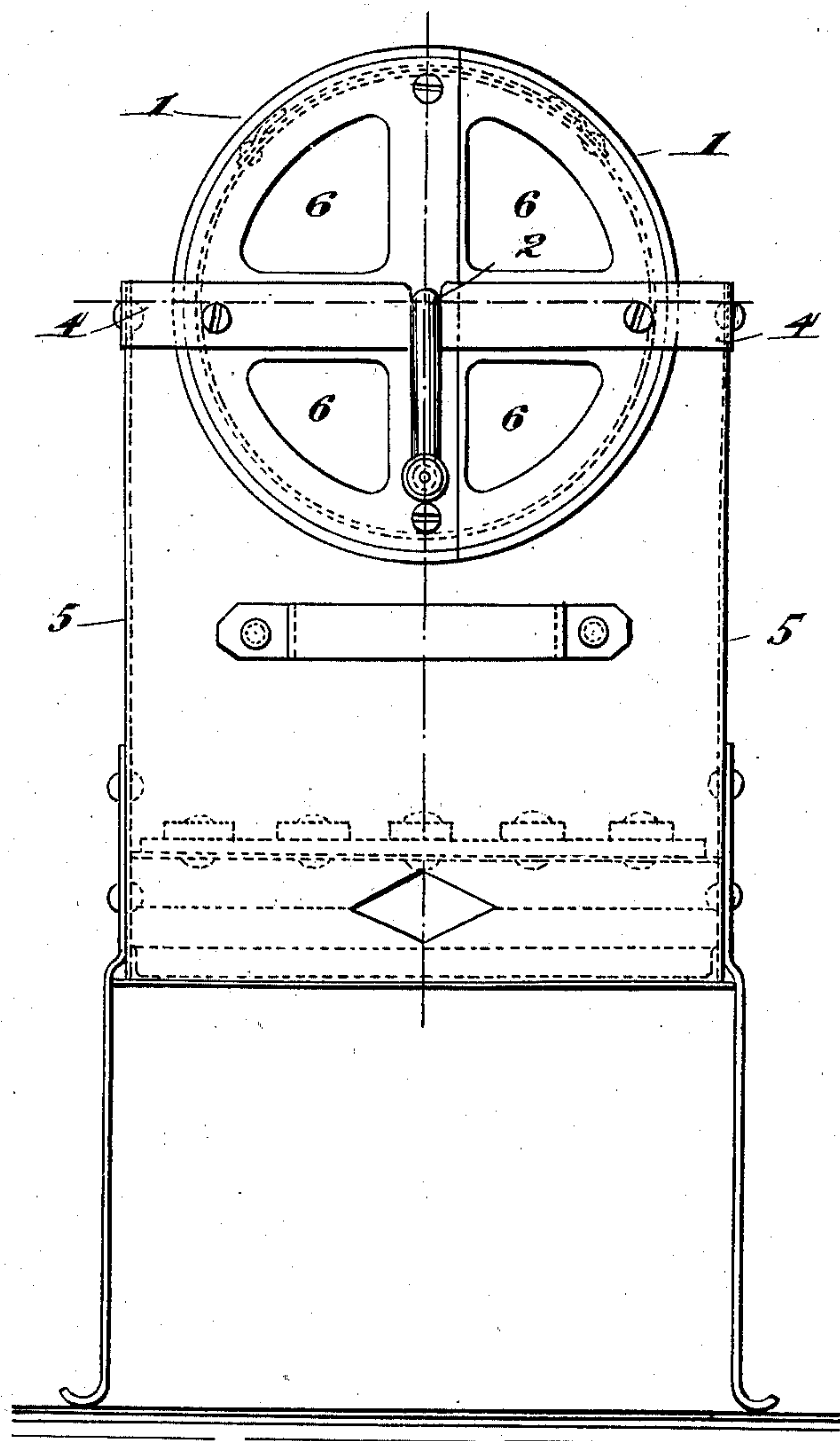
V. C. BUREL, G. RANDOU & G. REMY.
APPARATUS FOR TORREFYING COFFEE.

(Application filed Apr. 26, 1901.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.



Witnesses:

J. D'Amey McMahon.

E. Hoffman.

Inventors

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2 Sheets—Sheet 2.

Fig. 2.

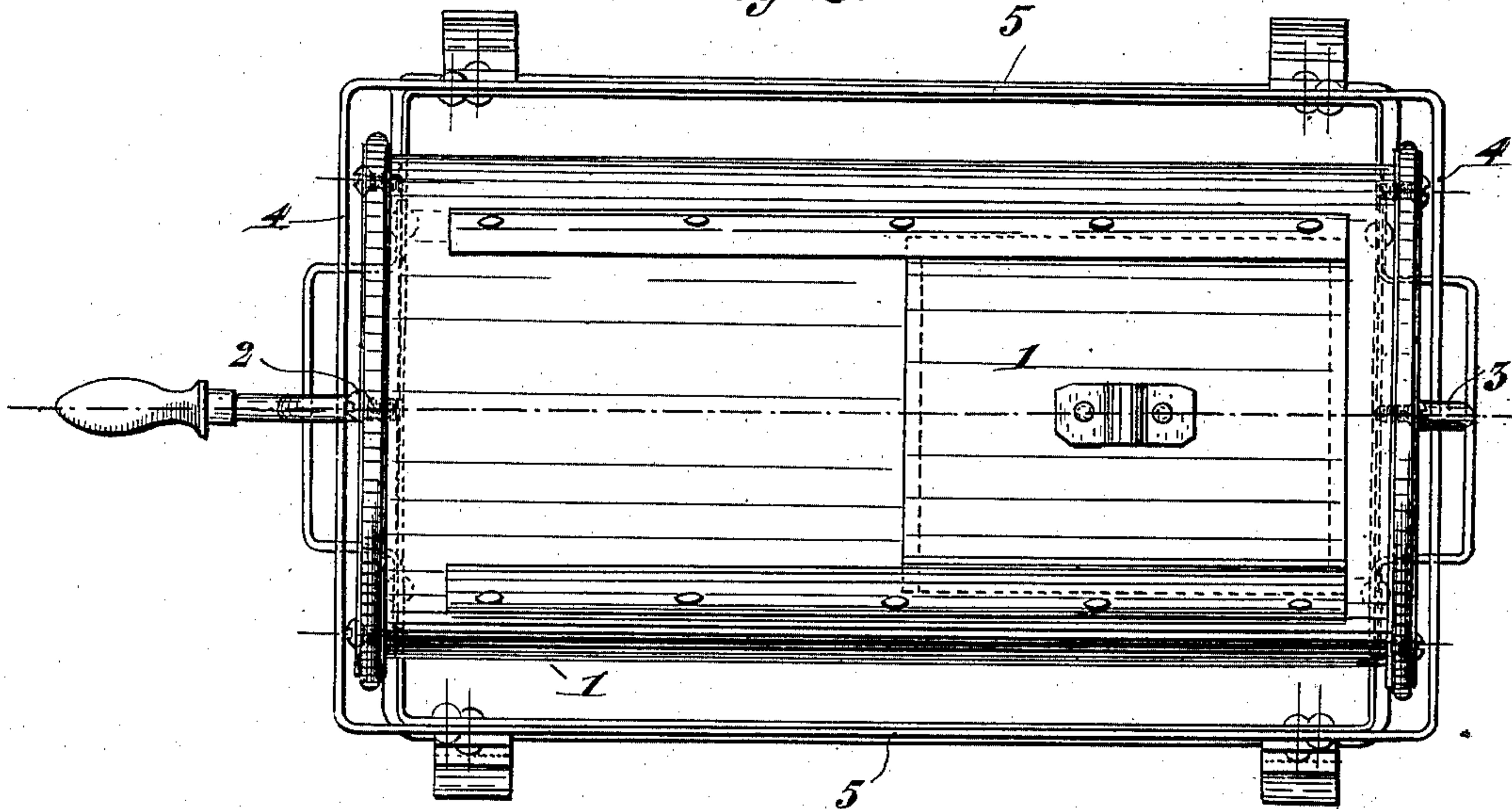
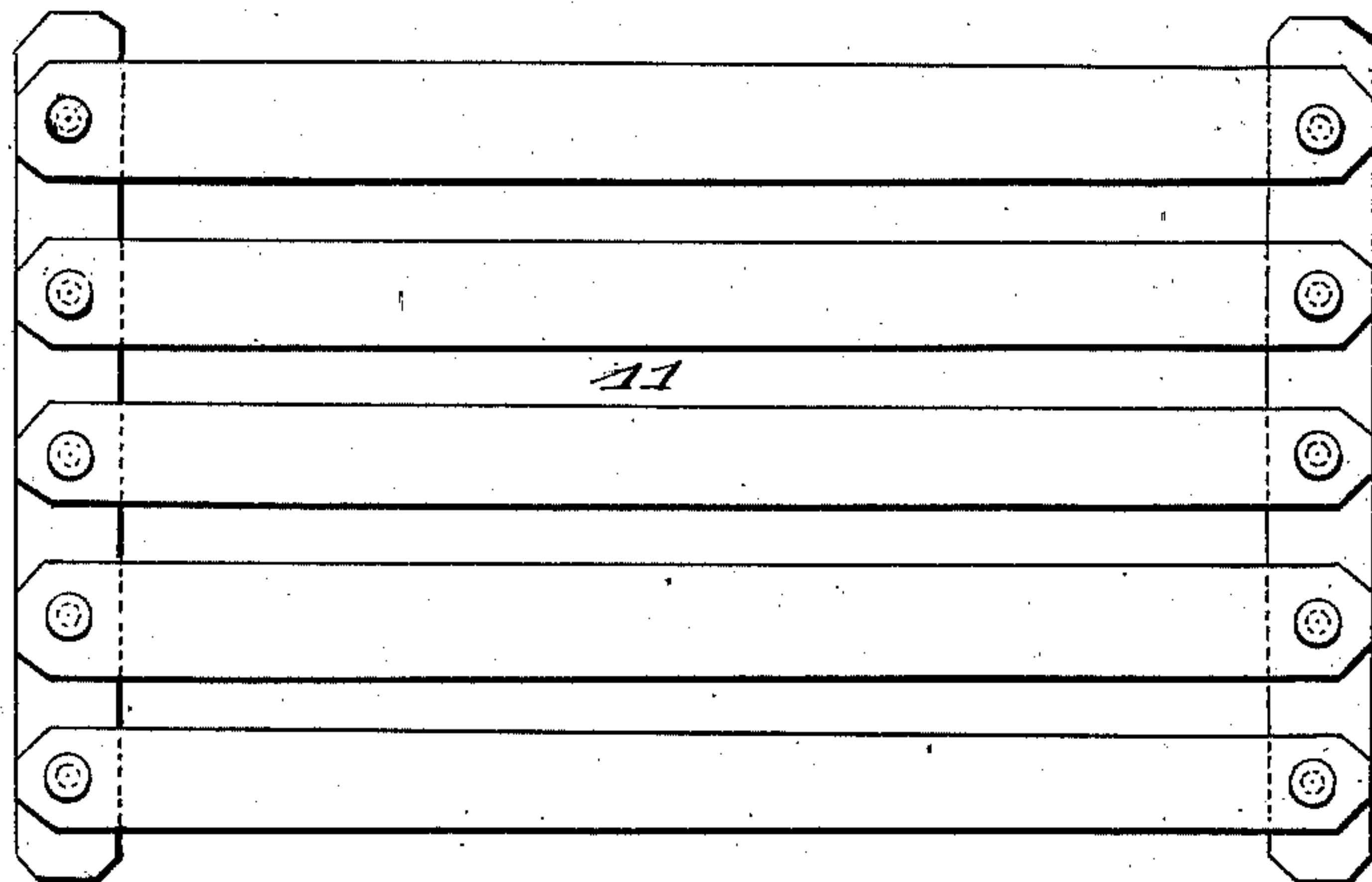


Fig. 3.



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UNITED STATES PATENT OFFICE.

VALENTIN CHARLES BUREL, GUSTAVE RANDOU, AND GÉORGE REMY, OF
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APPARATUS FOR TORREFYING COFFEE.

SPECIFICATION forming part of Letters Patent No. 698,445, dated April 29, 1902.

Application filed April 26, 1901. Serial No. 57,639. (No model.)

To all whom it may concern:

Be it known that we, VALENTIN CHARLES BUREL, GUSTAVE RANDOU, and GÉORGE REMY, citizens of the Republic of France, and residents of Havre, France, have invented certain new and useful Improvements in Apparatus for Torrefying Coffee, of which the following is a specification.

Our present invention relates to apparatus for torrefying coffee, the object being to provide an apparatus of this kind enabling the torrefaction to be looked after without its being necessary to open the door serving to introduce the coffee-berries.

The invention consists of the construction and novel combination of parts fully described and claimed hereinafter.

In the accompanying drawings, Figure 1 is an end elevation of the torrefying apparatus of our invention. Fig. 2 is a top plan view of same. Fig. 3 is a top plan view of the grate 11 of the furnace.

Referring to the drawings, 1 represents a drum made of sheet metal and journaled by means of studs 2 3 in recesses provided in iron bars 4, suitably secured to a case 5, made of sheet metal and containing the furnace of the apparatus. The drum 1 extends on either side beyond the sides of the case 5 for the purpose hereinafter described. The bars 4 are secured in close proximity to the top of the case 5. These bars, however, at each end of the case project beyond the case, leaving a space. The upper ends of these bars are segmentally recessed for the reception of the studs 2 3. Thus when it is desired to remove the contents of the drum it is only necessary to lift the same from its bearings, and it is apparent that it may again be placed in position by return to the bearings.

Each of the end plates of the drum 1 is provided with a series of apertures closed by means of mica plates 6. This construction, which is a characteristic feature of our invention, enables the operation to be looked after at any moment without its being necessary to open the door through which coffee is introduced into and discharged from the appa-

ratus. Said mica plates are removably held in place, so that they can be easily removed and substituted by other plates should they be deteriorated.

In providing a series of openings having mica plates we are enabled to inspect the contents of the drum while the same is in operation, as it will be evident that the proximity of the plates to one another permits of the eyes being concentrated on one point while inspecting the contents instead of making it necessary to follow a single mica plate in its rotation.

The drum 1 extends on either side beyond the sides of the case 5 for the purpose of preventing smoke from blackening the mica plates. Said apertures or windows may be made of any desired form. The drum has an opening for the introduction and discharge of coffee closed by means of a suitable door.

The apparatus described has the advantage over the devices now in use that it enables the torrefaction to be looked after and stopped without opening the discharge-door, whereby a high-grade product may be obtained, as the useful gases cannot escape from the coffee.

By reason of the arrangement of the mica windows the operation may be stopped when the coffee has the required color, whereupon the coffee is quickly discharged into a closed receptacle, wherein the coffee is cooled.

Having fully described our invention, what we claim, and desire to secure by Letters Patent, is—

In a device of the character described, a casing, the upper portions of the ends of said casing having semicircular openings formed therein, the top of said casing being partly open, bars enframing the upper end of said casing and secured to the outer face thereof, the ends of said bars projecting beyond the ends of the casing and having segmental recesses formed in the upper ends thereof, a drum located partly in said semicircular openings and the opening in the top, end plates on said drum extending beyond said casing, said end plates having a series of segmental

apertures formed therein between the inner and outer circumference of the end plates, mica plates secured in said apertures, studs on the said end plates engaging in the said
5 recesses in the bars, one of said studs formed into a crank, guides on the periphery of said drum, and a door operating in said guides, substantially as described.

In testimony whereof we have hereunto set our hands in présence of two witnesses.

VALENTIN CHARLES BUREL.

GUSTAVE RANDOU.

GÉO. REMY.

Witnesses:

J. P. BEECHER,

E. MILLET.