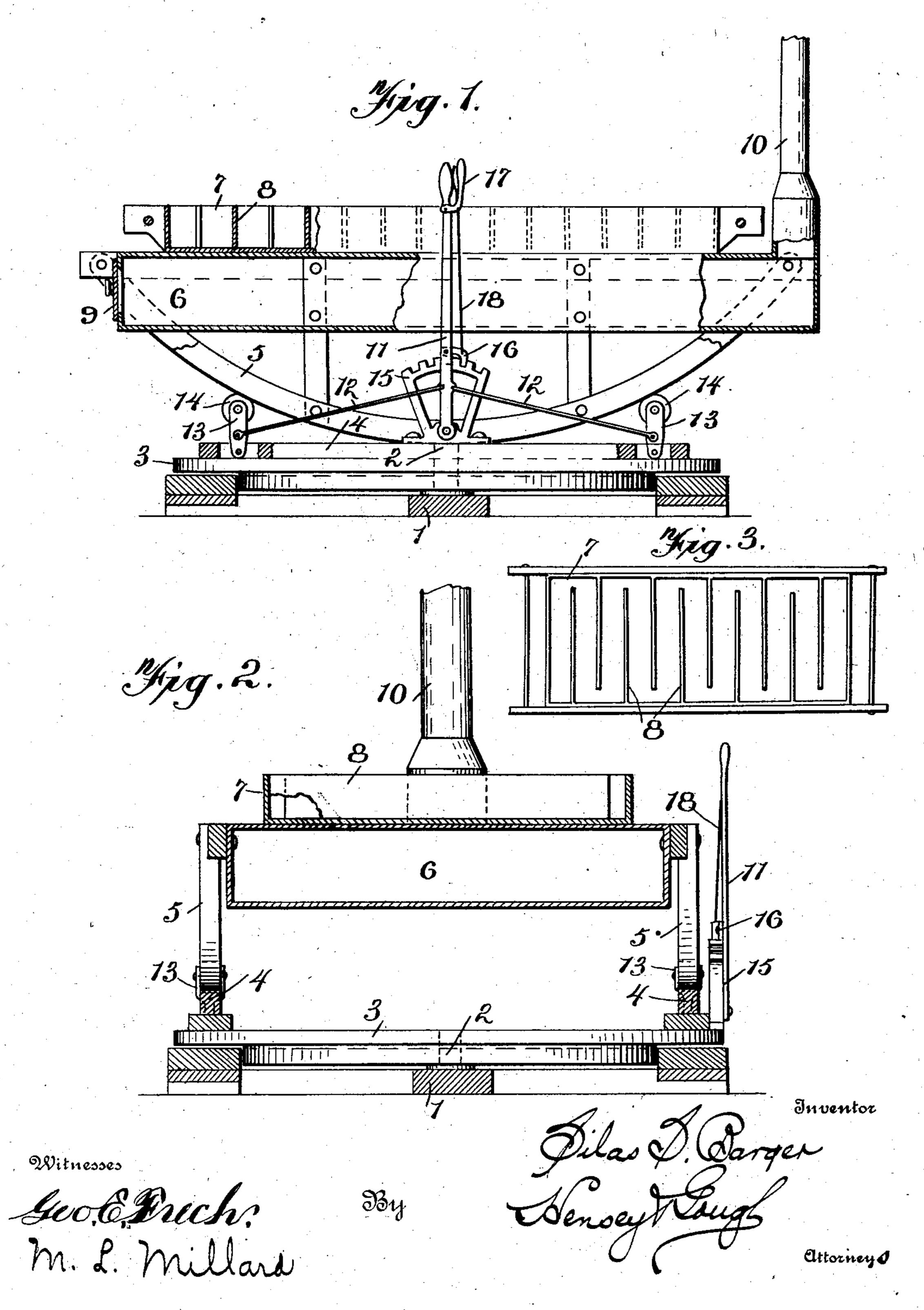
## S. S. BARGER. REVOLVING FURNACE. APPLICATION FILED JUNE 6, 1902.

NO MODEL.



## United States Patent Office.

SILAS S. BARGER, OF EDDYVILLE, ILLINOIS.

## REVOLVING FURNACE.

SPECIFICATION forming part of Letters Patent No. 721,275, dated February 24, 1903.

Application filed June 6, 1902. Serial No. 110,506. (No model.)

To all whom it may concern:

Be it known that I, SILAS S. BARGER, a citizen of the United States, residing at Eddyville, in the county of Pope and State of Illinois, have invented certain new and useful Improvements in Revolving Furnaces, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to rocking and revolving furnaces especially adapted to heat syrups or other liquids and at the same time maintain them in agitation; and it consists in the novel construction and arrangement of its parts, as hereinafter described.

furnace adapted to be revolved, so that the door of the fire-box may be brought toward the wind, and a means is provided for rocking the furnace, so that the liquid contained in the pan resting upon the furnace may be kept in agitation, and a means is provided for maintaining the furnace in a stationary position, which may be either horizontal or at an angle.

In the accompanying drawings, Figure 1 is a side elevation of the furnace with parts in section. Fig. 2 is a transverse sectional view of the furnace. Fig. 3 is a top plan view of the pan, showing the arrangement of the partitions therein.

The furnace and its attachments are mounted upon a foundation 1, the spindle 2 being suitably journaled at its lower end in the said foundation. An annular platform 3 is at-35 tached to said spindle 2, and upon said platform are arranged the parallel tracks 4, the rockers 5 resting upon the said tracks 4, said rockers supporting the fire-box 6. The said fire-box 6 is elongated horizontally and is pro-40 vided with a flat top adapted to hold a pan 7, the said pan 7 being provided in its interior with a series of intermeshing partitions 8, the pan and extend across nearly to the op-45 posite side in the manner as shown in Fig. 3. One end of the fire-box 6 is provided with a door 9, and the opposite end is provided with a flue or stack 10. A lever 11 is fulcrumed at its lower end to the platform 3, said lever

13, said arms 13 being pivoted at their lower ends to the platform 3, the upper ends of said arms being provided with the rollers 14, which engage the under surface of the rocker 5. Adjacent the lever 11 is located the toothed 55 segment 15, and the pawl 16, pivoted on the lever 11, is adapted to engage the teeth of the said segment in the manner as shown in Fig. 1.

An ordinary grip 17 is pivoted to the handle of the lever 11 and is connected by the 60 rod 18 with the pawl 16. The furnace is operated as follows: A fire is built in the firebox 6, and the syrup or other liquid is placed in the pan 7. The furnace and its attachments may be revolved on the spindle 2, so 65 as to bring the door 9 toward the wind. By opening the said door a draft is created through the fire-box 6, which causes the fire to burn briskly, which will heat the said firebox, the pan 7, and its contents. As the liq-70 uid is heated the lever 11 may be manipulated, so as to cause the upper ends of the arms 13 to move simultaneously toward and away from the rocker 5, which will cause the fire-box 6 and its attachments to tilt back and 75 forth upon the platform 3, and thus the liquid in the pan 7 is kept in a state of agitation. When occasion may require, the firebox 6 and its attachments may be secured in a horizontal or slanting position by permit- 80 ting the pawl 16 to enter the spaces between the teeth of the segment 15.

Having described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

1. A furnace consisting of a fire-box permanently attached thereto, a platform, said platform being revolubly supported, the top of said fire-box forming a heating-surface.

vided with a flat top adapted to hold a pan 7, the said pan 7 being provided in its interior with a series of intermeshing partitions 8, which are attached at one end to the side of the pan and extend across nearly to the op-

one end of the fire-box 6 is provided with a door 9, and the opposite end is provided with a flue or stack 10. A lever 11 is fulcrumed at its lower end to the platform 3, said lever to being connected by the rods 12 to the arms of the fire-box to tilt, the top of said fire-box forming of a fire-box having of a fire-box hav

4. A furnace consisting of a fire-box having rockers, a platform supporting said rockers, a fire-box mounted on said rockers, a lever fulcrumed to said platform, arms pivoted at their lower ends to said platform, the upper ends of said arms engaging said rockers and rods connecting said arms with said lever.

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

SILAS S. BARGER.

Witnesses:
M. T. CHANCY,
JENNIE STONE.