F. TRACHSLER.

MEANS FOR HEATING BAKERS' OVENS.

APPLICATION FILED SEPT. 8, 1908.

919,400.

Patented Apr. 27, 1909.

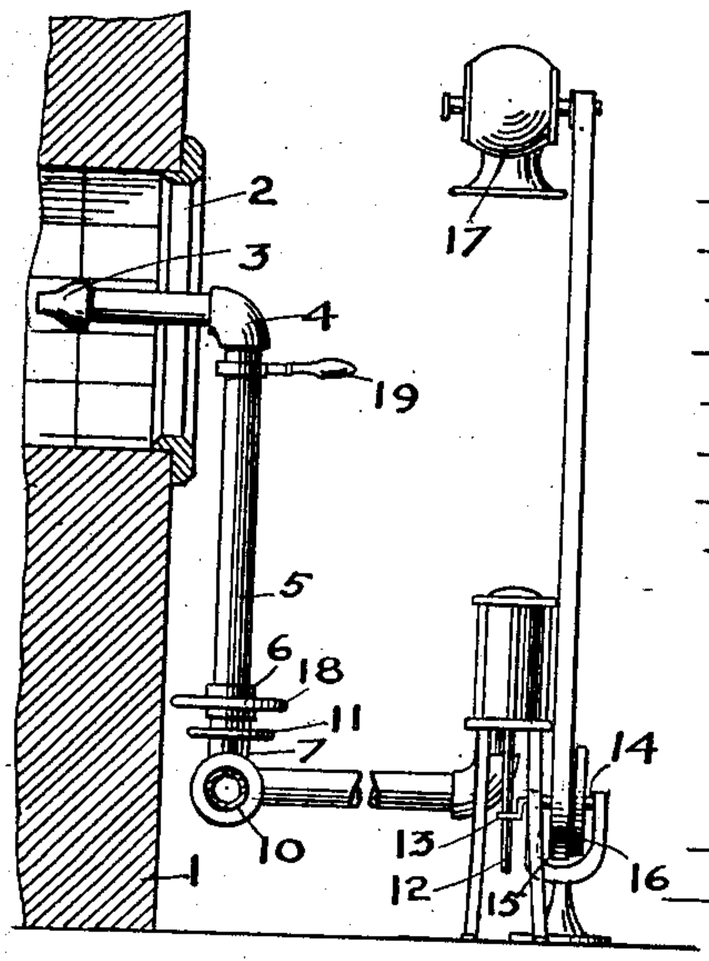

FIG 1

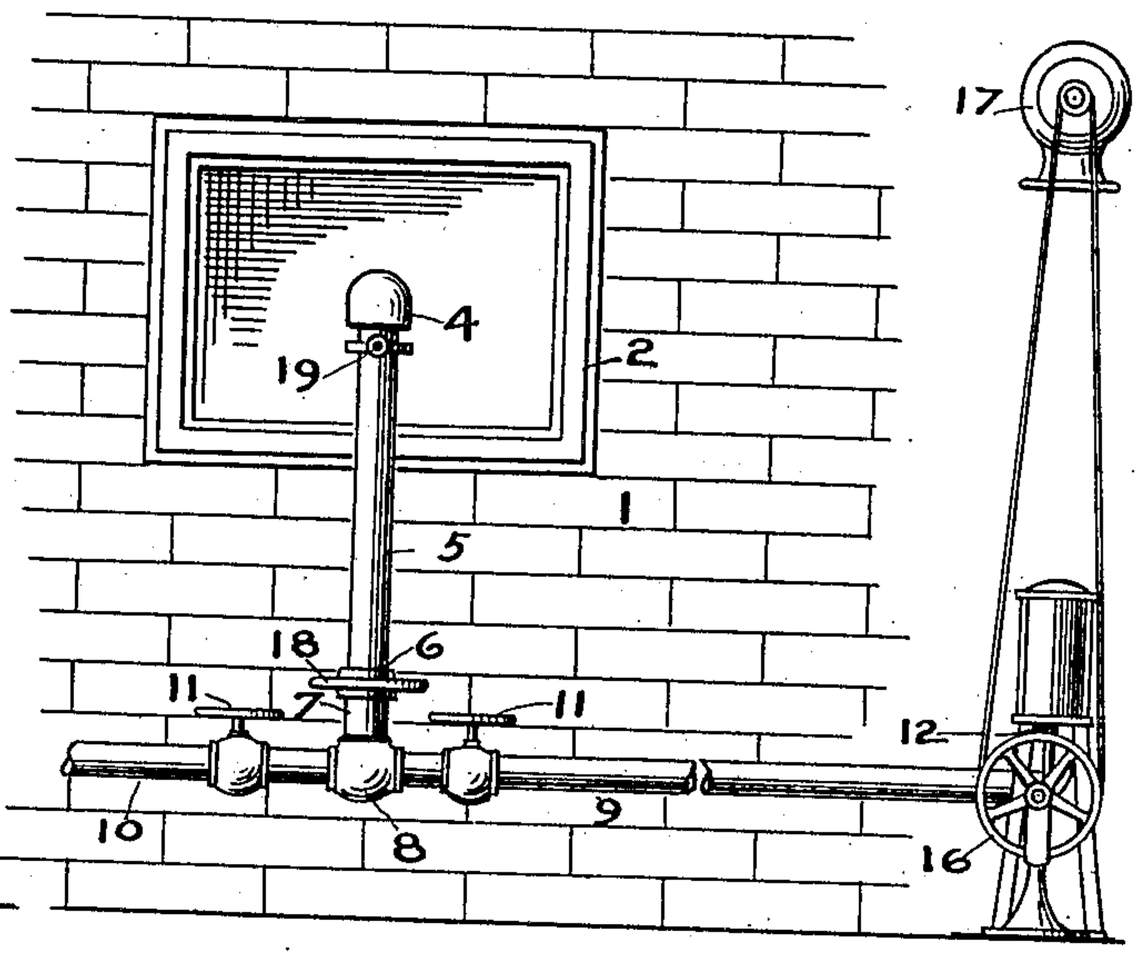

FIG. 2

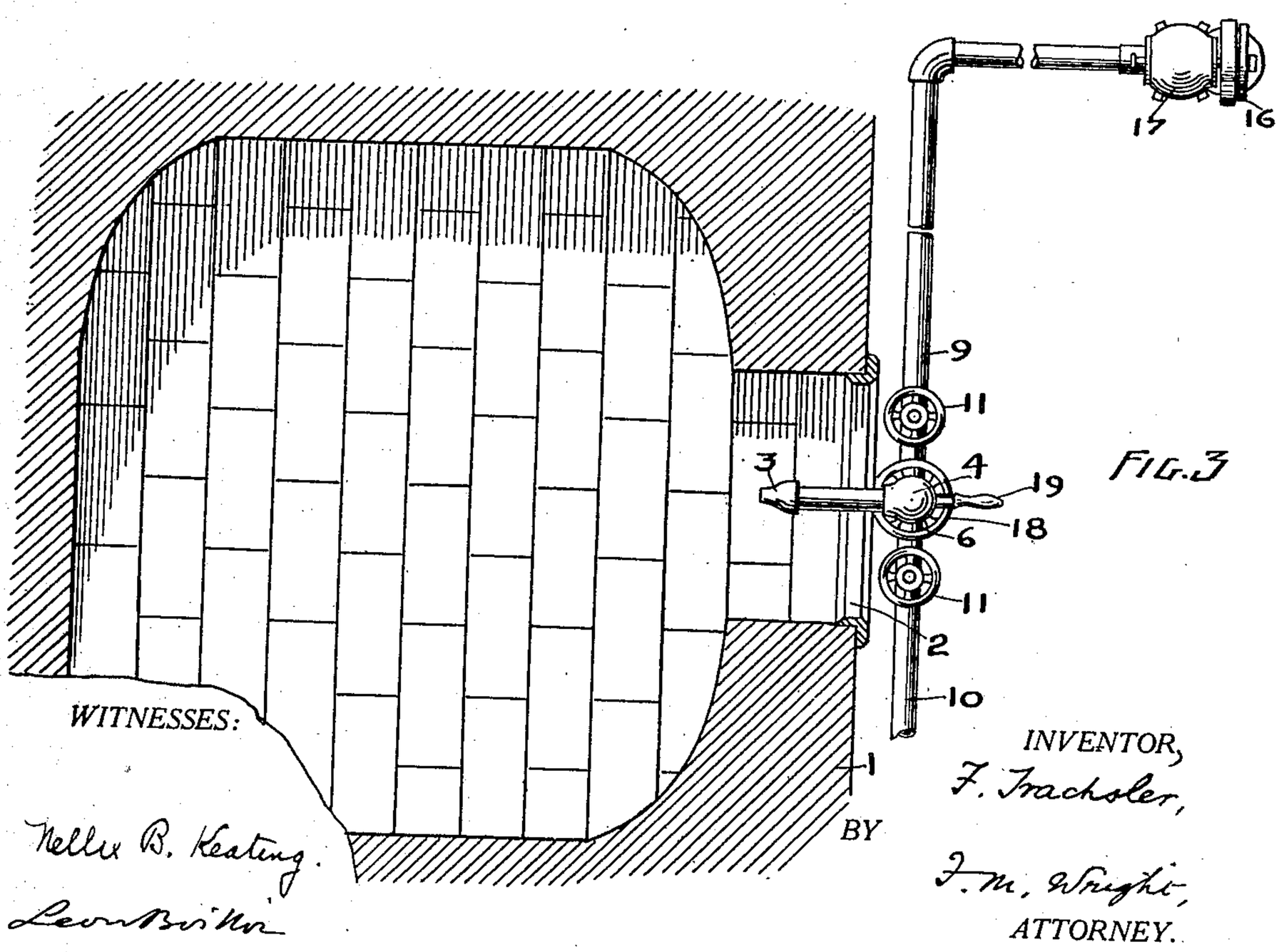

FIG. 3

WITNESSES:

Nellie B. Keating.

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UNITED STATES PATENT OFFICE.

FRANK TRACHSLER, OF SAN FRANCISCO, CALIFORNIA.

MEANS FOR HEATING BAKERS' OVENS.

No. 919,400. Specification of Letters Patent. Patented April 27, 1909.

Application filed September 8, 1908. Serial No. 452,046.

To all whom it may concern:

Be it known that I, FRANK TRACHSLER, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Means for Heating Bakers' Ovens, of which the following is a specification.

At present it is the general practice to heat bakers' ovens by means of a fire of wood built in the oven, which is removed when the oven is heated sufficiently for baking. This method of heating is expensive, slow and troublesome, and it is difficult to keep the interior of the oven clean.

The object of the present invention is to provide means for heating bakers' ovens, which will be more convenient, cleanly, rapid, and economical than those at present in use.

A further object is to provide means for heating the oven uniformly in all parts thereof, and for varying the heat in any part of the oven as may be desired by any peculiarity of its formation.

In the accompanying drawing, Figure 1 is a vertical sectional view of the front of the oven, the burner being shown in side elevation; Fig. 2 is a broken front view of an oven equipped with my improved burner. Fig. 3 is a horizontal section, the burner being shown in plan.

Referring to the drawing, 1 indicates the wall of an oven, and 2 the door thereof. Into the opening of the door is inserted a nozzle 3 connected by an elbow 4 to a vertical pipe 5, which is connected by a union 6 with a short common pipe 7 connected with a tee 8, which is connected at opposite ends to pipes 9, 10, controlled by valves 11. Either of these pipes can be used for conducting gas, and the other for conducting air to the nozzle. In the present instance I have shown the pipe 9 on the right as that for forcing air thereto. Said pipe 9 is connected with an opening on the back of the cylinder of an air compressor at the lower end thereof, the piston rod 12 of which is connected by means of a crank 13 with a shaft 14 carrying fast and loose pulleys 15, 16, so that said shaft 14 is rotated from an electric or other motor 17. By this means the air is forced along the pipe 9 to the nozzle. The pressure at which the air passes to the nozzle is controlled by means of one valve 11.

The union 6 is formed with a hand wheel 18, permitting it to be readily detached, so that the burner can be quickly removed when necessary. Said union permits the vertical pipe 5 to be turned through any desired angle about its axis to direct the nozzle to any desired part of the oven, and, for the purpose of so directing it, there is clamped upon said pipe 5 a handle 19.

It has been found that with an apparatus of this character, the oven can be heated with a comparatively small expenditure of fuel, at about 40 cents at the ordinary rates. Moreover the oven can be heated very rapidly, and can be used for baking as soon as the burner is removed, and, since the nozzle can be directed to any part of the oven, the interior of the oven can be heated with great uniformity. The labor of preparing the oven for baking is reduced to a minimum.

I claim:—

1. In combination with a baker's oven, a gas pipe, an air pipe, means for forcing air under pressure through said air pipe, a common pipe connected to said air and gas pipes to convey the commingled air and gas, a vertical pipe rotatable about its axis upon the last named pipe, a handle on said vertical pipe whereby it may be turned, and a horizontally directed nozzle leading from said vertical pipe and directed into the interior of the oven, substantially as described.

2. In combination with a baker's oven, a gas pipe, an air pipe, means for forcing air under pressure through said air pipe, a common pipe connected to said air and gas pipes to convey the commingled air and gas, a vertical pipe, a union having a hand wheel connecting said vertical and common pipes and permitting the vertical pipe to be turned about its axis on the common pipe, a handle on said vertical pipe whereby it may be turned, and a horizontally directed nozzle leading from said vertical pipe and directed into the interior of the oven, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FRANK TRACHSLER.

Witnesses:
FRANCIS M. WRIGHT,
D. B. RICHARDS.