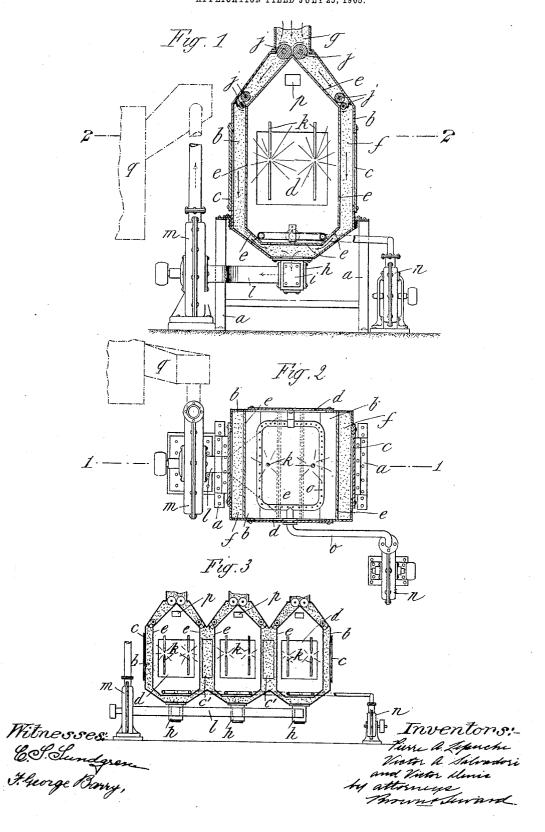
No. 805,652.

PATENTED NOV. 28, 1905.

P. A. LEPERCHE, V. ANGIOLINI-SALVADORI & V. DENIS.

APPARATUS FOR BLEACHING FLOUR.

APPLICATION FILED JULY 25, 1906.



UNITED STATES PATENT OFFICE

PIERRE ALBERT LEPERCHE, VICTOR ANGIOLINI-SALVADORI, AND VICTOR DENIS, OF PARIS, FRANCE.

APPARATUS FOR BLEACHING FLOUR.

No. 805,652.

Specification of Letters Patent.

Patented Nov. 28, 1905.

Application filed July 25, 1905. Serial No. 271,148.

To all whom it may concern:

Be it known that we, PIERRE ALBERT LEPERCHE, a citizen of France, VICTOR ANGIOLINI-SALVADORI, a subject of the King of Italy, and VICTOR DENIS, a citizen of France, manufacturers, all residents of 26 Rue de Havarin, Paris, France, have invented an Apparatus for Bleaching Flour, of which the following is a specification.

The invention relates to an apparatus in-

tended for bleaching flour.

This apparatus is composed principally of a chamber in which is produced a powerful light of any nature whatever, preferably rich in chemical rays, such as that produced by electric lamps burning in closed chambers, channels which are only separated from this chamber by a glass wall, and of suitable means for causing the flour to fall in a fine rain through these channels in such a manner that during its passage it is efficiently subjected to the action of the light, and also of means for cooling the apparatus. The result of this treatment is to render the flour very white without causing it to lose any of its qualities.

The accompanying drawings illustrate the form of apparatus which we have found the most suitable for attaining this result.

Figure 1 is a vertical section of the appa-3° ratus on line 1 1 of Fig. 2. Fig. 2 is a horizontal section on line 2 2 of Fig. 1. Fig. 3 is a diagrammatic vertical section illustrating a modification.

On a frame a is supported a case b, of wood, for example, provided on its four vertical sides with opening panels c c and d d. The walls e, composed of glass, form on two sides of the apparatus channels f f, through which the flour supplied at g falls and reunites at the lower part at h, being exposed during the whole period of its fall to the action of luminous rays. Before arriving at the vertical portion of these channels the flour is divided up by grooved rotary rollers f. One or the preferably several lamps f are arranged in the central compartment, to which ready access may be obtained by opening the panels f f.

A tube l connects the interior box h, into which the flour passes after its treatment, 5° with a suction-fan m, which, although it only removes the fine flour, regulates the delivery. The flour which it draws off is forced by it into storage-chambers q. The box h is provided with a cleaning plug or cover i at one 55 of its two extremities. At the other, which

is lower, it bears a spout for delivering the products into sacks.

A blower-fan n by means of a tube o, which at the interior of the central compartment is perforated and follows the glass walls, serves 60 to cool these latter and the whole apparatus. The air escapes to the atmosphere by one or more orifices p.

It will be understood that apparatus provided with more than two descending chandred with more than two descending chandles may be readily constructed, several rows of lamps being employed. Channels having the two walls of glass would thus be obtained and in which a layer of flour would therefore receive the action of the light on both sides. 70 This is what is illustrated diagrammatically in Fig. 3. In this case access to the interior of the intermediary channels would be obtained through doors c'. The suction-conduit l of the fan m would be provided with 75 branches each leading to one of the boxes h, and similarly the fan n would serve to cool the whole of the light-chambers.

What we claim, and desire to secure by Letters Patent of the United States, is—

1. An apparatus for bleaching flours, comprising channels for the fall of the flour in the form of rain and a chamber separated from said channels by glass walls and means for producing light inclosed in said chamber.

2. An apparatus for bleaching flours, comprising channels for the fall of the flour in the form of rain, a chamber separated from said channels by glass walls and means for producing light inclosed in said chamber; rollers for godividing up the flour before its entrance into the said channels; a suction-fan for drawing the flour through these channels and a blower-fan for cooling the apparatus.

3. An apparatus for bleaching flours, comprising channels for the fall of the flour in the form of rain and a chamber separated from said channels by glass walls, closed chambers within said chamber and electric lamps burning in said closed chambers.

In testimony that we claim the foregoing as our invention we have signed our names, in presence of two witnesses, this 11th day of July, 1905.

PIERRE ALBERT LEPERCHE. VICTOR ANGIOLINI-SALVADORI. VICTOR DENIS.

Witnesses:
Hanson C. Coxe,
Alcide Fabe.