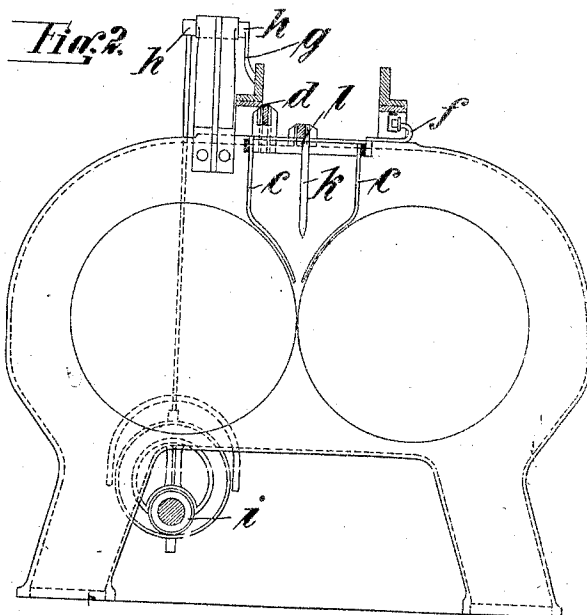
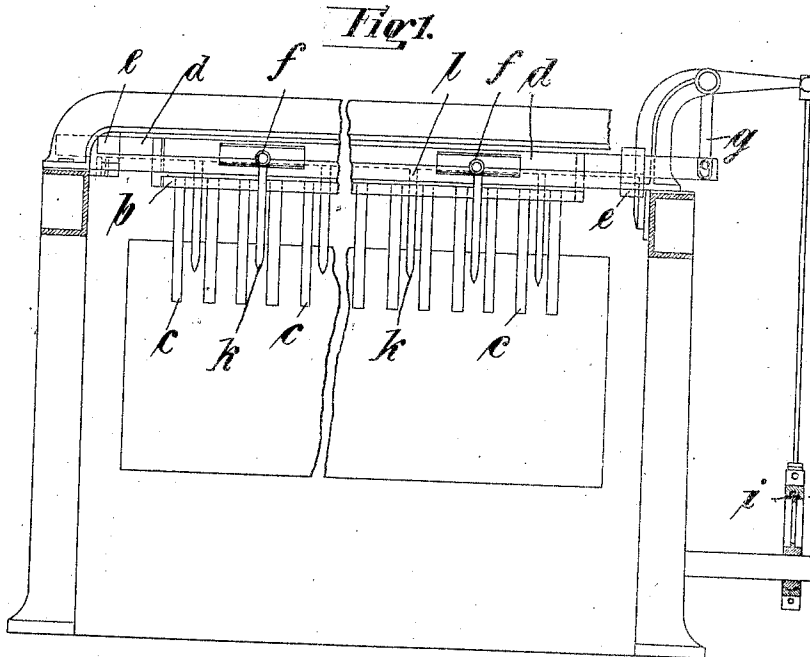


No. 879,060.

H. PAUCKSCH.
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APPLICATION FILED MAR. 18, 1907.

PATENTED FEB. 11, 1908.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 3.

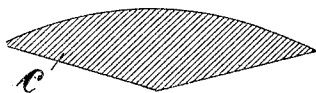


Fig. 4.

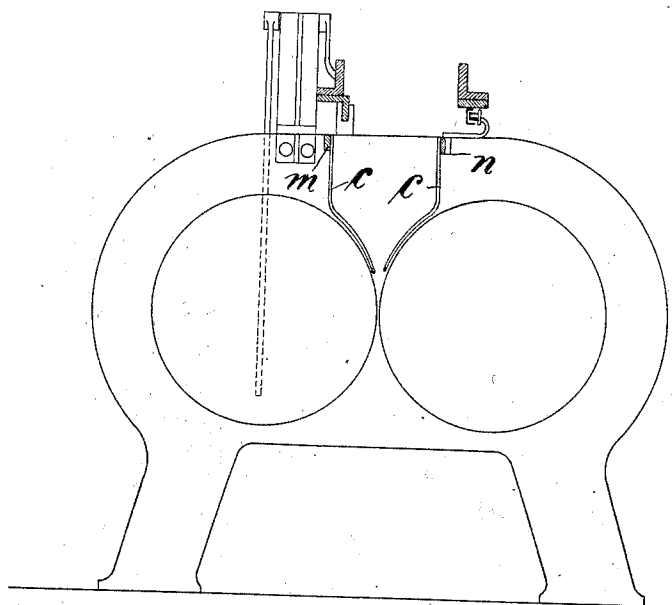
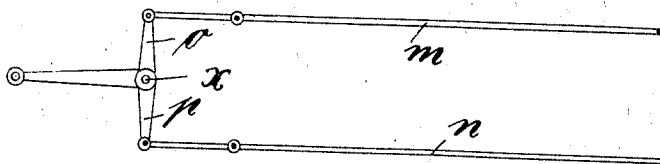


Fig. 5.



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HERMANN PAUCKSCH, OF LANDSBERG-ON-THE-WARTHE, GERMANY.

DESICCATING APPARATUS.

No. 879,060.

Specification of Letters Patent.

Patented Feb. 11, 1908.

Application filed March 18, 1907. Serial No. 363,030.

To all whom it may concern:

Be it known that I, HERMANN PAUCKSCH, a subject of the King of Prussia, residing at Landsberg-on-the-Warthe, in the Kingdom of Prussia and German Empire, have invented new and useful Improvements in Desiccating Apparatus, of which the following is a specification.

According to my present invention an agitator is provided between the drying rollers, said agitator having arms of a shape adapted to the circumference of said rollers. By this agitator the substance fed between the rollers is stirred and simultaneously ventilated and, as a consequence, the parts adhering to the surface of the rollers are prevented from baking on, so that the output of the drying rollers is increased.

In the accompanying drawing illustrating my invention Figure 1 is a side elevation of one construction, Fig. 2 an end elevation of the same partly in section, Fig. 3 shows one of the agitating arms, Fig. 4 is an end elevation partly in section of another construction of the apparatus, and Fig. 5 is a plan of the mechanism for operating the agitators in the construction shown in Fig. 4.

The agitator consists of a frame *b*, to which are secured the agitating arms *c*. This frame is connected to a rail *d* supported by two guides *e*. In order to further support the frame *b* guides *f* are provided opposite the rail *d*, in which run rollers fitted to said frame. At the end of the rail *d* the lever arm *g* is attached, which is made in one piece with the lever arm *h*. Said arm *h* is moved up and down by the eccentric *i*, and the agitator is thus moved backwards and forwards at any desired speed, for example at about 30 times per minute.

In order to prevent the substance between the rollers from being moved backwards and forwards as a whole with the agitating arms, stationary arms *k* are provided, said arms being secured to a rail *l*. The surfaces of the agitating arms facing the surface of the rollers are preferably beveled from the center to their edges as shown in Fig. 3. By this section of the arms the substance is more uniformly spread on the rollers.

In the construction of the drying machine shown in Fig. 4 and 5, the arms *c* are secured

to special bars *m*, *n*, which are moved in opposite directions by a two-armed lever *o*, *p* fulcrumed at *x*. By this construction the substance between the rollers is more energetically stirred than by that shown in Figs. 1 and 2. As a consequence the stationary arms *k* can be omitted and the cost of the agitator is therefore reduced.

The apparatus is used principally for drying potatoes in order to make potato flour, but is applicable for drying cereals, such as wheat, etc.

The dried material is removed from the rollers by knives or scrapers, which bear against the surface of said rollers so as to remove the material as the rollers rotate.

What I claim and desire to secure by Letters Patent of the United States is:

1. In a desiccating apparatus, the combination with a pair of rollers, of a reciprocating frame arranged above the rollers and of a width to extend partially over said rollers, a set of spaced and downwardly projecting arms secured to each longitudinal side of the frame, the arms of each set being curved to conform to the curvature of a roller and engaging the same, and means for reciprocating the frame.

2. A desiccating apparatus with heated rollers, comprising in combination, agitating arms disposed in the top space between, and having a form adapted to the circumference of, the rollers, means to move said agitating arms and stationary arms in the top space between the rollers, substantially as, and for the purpose, set forth.

3. A desiccating apparatus with heated rollers, comprising in combination, agitating arms disposed in the top space between, and having a form adapted to the circumference of, the rollers and beveled from the center to their edges on the side facing the rollers, and means to move said arms, substantially as, and for the purpose, set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERMANN PAUCKSCH.

Witnesses:

WOLDEMAR HAUPT,
JOHN W. DYE.