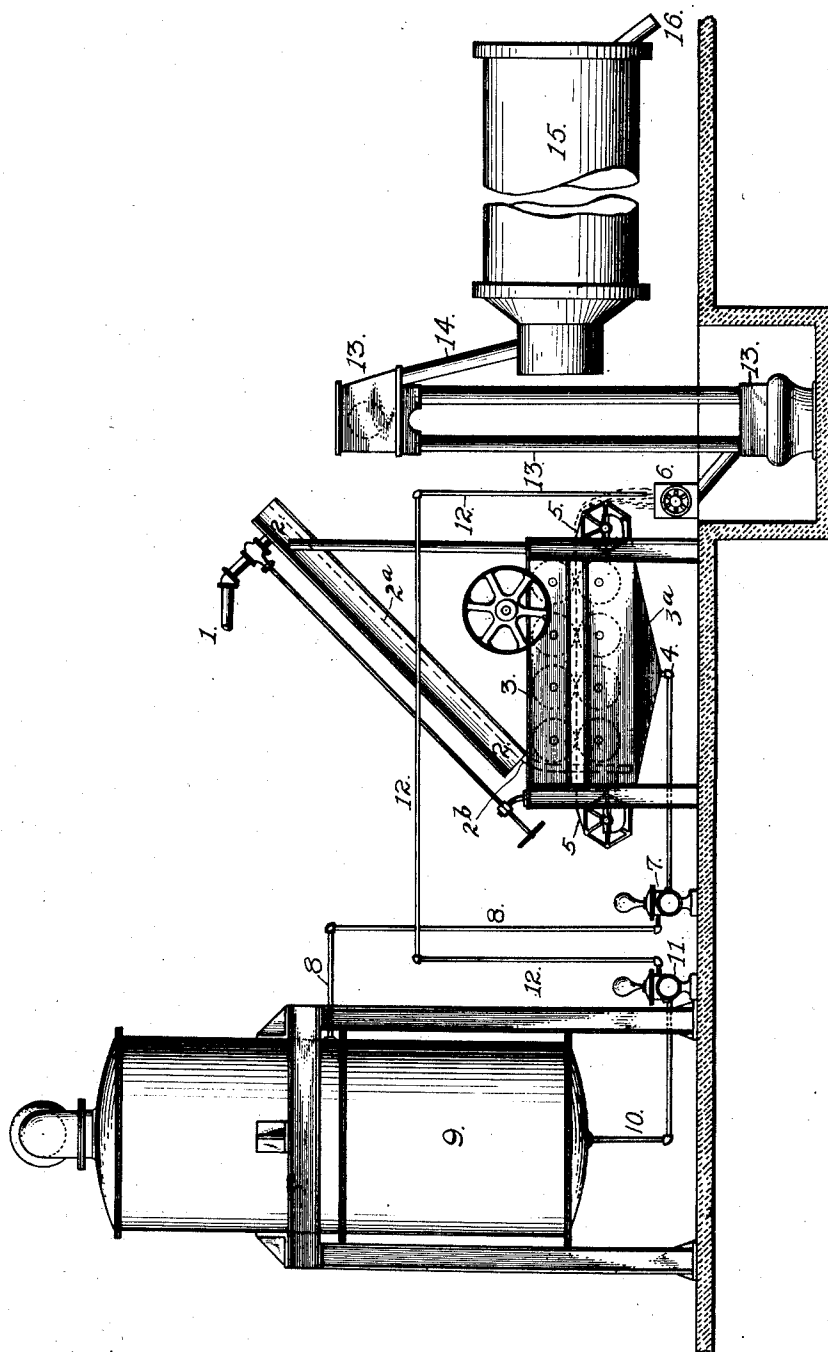


E. H. BRINKMANN & H. O. WENTE.
 PROCESS OF DESICCATING DISTILLERY SLOP.
 APPLICATION FILED MAY 10, 1909.

958,902.

Patented May 24, 1910.



WITNESSES.

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PROCESS OF DESICCATING DISTILLERY-SLOP.

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Specification of Letters Patent.

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Application filed May 10, 1909. Serial No. 495,163.

To all whom it may concern:

Be it known that we, EDWARD H. BRINKMANN and HUGO O. WENTE, citizens of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Processes of Desiccating Distillery-Slop, of which the following is a specification.

10 The objects of our invention are to provide a continuous, or practically continuous, process for producing dry feed from slop; to reduce the number of operations and the amount of apparatus now required, thereby
15 simplifying and expediting the manufacture, saving expense, and lessening the danger of deterioration of the material during the process.

20 Our invention consists in the process hereinafter described and claimed.

The drawing shows in elevation, apparatus adapted to carrying out our process.

25 The reference numeral 1, designates a pipe through which the slop, as it comes from the distillery, passes to a screen 2 which partly separates the thin from the thick portion of the slop, the thick portion passing to a continuous roll filter press 3, from which it is delivered by the endless
30 conveyer 5, to a mixing conveyer 6. The screen cloth is indicated by a dotted line 2^a. The liquid which passes through the screen cloth flows through pipes 2^b to a hopper shaped receptacle 3^a, which also receives
35 the liquid from the filter press. The liquid collected in this receptacle passes, through a pipe 4, to a pump 7, by means of which it is forced through a pipe 8, to the evaporator 9. The syrup resulting from evaporation passes through a pipe 10, to a syrup
40 pump 11, by which it is forced through a

pipe 12, to the mixing conveyer 6, in which it is mixed with the solids from the filter press. From the mixing conveyer 6, the mixed product passes to an elevator 13, and from the elevator through a spout 14, to the drier from which it is delivered, through spout 16, as the finished product.

It will be noted that the slop, as it comes from the distillery, goes directly to a screen, from which the thick portion goes to a continuous press; that the thin slop from the screen and the press goes to a pump by which it is forced into the evaporator and the resulting syrup is pumped to a mixing
55 conveyer which also receives the solid portions as they come from the filter press; that the mixed product is conveyed to the drier from which it passes as finished goods; and that the material requires no handling
60 until it passes out as finished goods.

If for any reason, the slop produces more syrup than the solids will absorb, a suitable quantity of some other granular and absorbent grain product may be fed to the mixing
65 conveyer.

We claim as our invention:

The process of manufacturing dry feed from distillery slop, consisting in separating the thin from the thick portions by continuous filtering; concentrating the stream
70 of the thin portion into a syrup by continuous evaporation; mixing the continuous stream of syrup with the thick portions of solid material continuously emerging from
75 the filter press; and drying the mixture.

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Witnesses:

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