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INVENTIONS PATENTED.

NOTE.—Patents are granted for 15 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 40,493. Process for Manufacturing and Preserving Pure Yeasts. (*Procédé pour fabriquer et préserver la levure.*)

Gaston Guignard, Paris, France, 1st October, 1892; 6 years.

Claim.—1st. The process for manufacturing and preserving yeast which consists in producing the latter by manuring with a pure yeast placed in sterilized wort, and injecting sterilized air therein. 2nd. The process of manufacturing and preserving yeast, which consists in sterilizing a fermentable sugary or sweet wort, sowing and causing the fermentation, in presence of sterilized air, of this wort by a pure yeast, introducing sterilized air during the fermentation, and without the contact of unsterilized air, separating the wort from the yeast and subsequently incorporating the yeast, in a gelatinated or "geloled" wort. 3rd. In apparatus for manufacturing and preserving yeast, the combination of yeast and fermenting vats containing agitators, and coiled pipes for the circulation of cold water, and provided with dabblers to allow of the introduction of sterilized air or steam, with one or more mixing filters formed of an external casing or box containing an internal receptacle formed of penetrable material, an agitator and means for operating same, a yeast discharge tube, an outlet for fermented wort, inlet for the sterilized air or steam, an eduction cock and an inlet for the worts and yeast. 4th. The herein described device for sterilizing air, embracing a washer A containing an antiseptic, pump P, air tank R, coiled pipe s, furnace F, washer L containing sulphuric acid cotton filter f, cooler V and sterilized air tank S.

No. 40,494. Ventilating Apparatus.

(*Appareil de ventilation.*)

William Thomas Sugg, Westminster, England, 1st October, 1892; 6 years.

Claim.—1st. In ventilating apparatus, the combination, with a ventilating shaft, of a rigid or flexible disc valve, having its seat on the end of the shaft, a chamber connected with the shaft and inclosing the valve, a perforated cover provided with tubes, or the equivalent, to the chamber, and a flat deflector above, and parallel with the cover, all substantially as and for the purpose set forth. 2nd. In ventilating apparatus, the combination, with a ventilating shaft, of a chamber closed at top by a perforated cover provided with tubes or their equivalent, and a straight deflector arranged above and parallel with the cover, as and for the purpose set forth.

No. 40,495. Shutter for Photographic Cameras.

(*Ermeture pour chambre photographique.*)

Joseph J. Clairmont, Rutherford, New Jersey, assignee of Maurice A. Vanderwaag, Brooklyn, New York, both in the U.S.A., 1st October, 1892; 6 years.

Claim.—1st. The combination, with an apertured shutter, of a spring connection between the spring and shutter, an operating stud and a telescopic device uniting the stud and said connections, substantially as described. 2nd. The combination of the apertured shutter rotatably mounted, concentrically disposed pins secured to the shutter, and a spring operated rocker having teeth adapted to engage said pins, and means for operating the rocker, substantially as described. 3rd. The combination of the rotatable apertured shutter with a spring, a segmental rack, a pin disc on the shutter engaging therewith, connections between the spring and shutter, an operating stud, and a telescopic device uniting the stud and said connections, substantially as described. 4th. The combination, with a rotatable apertured shutter, a spring for actuating the shutter, devices connecting the shutter and a spring for rotating it, a movable operating stud, the union of the stud and connecting devices being articulated, substantially as described. 5th. The combination, with the rotatable apertured shutter having the pin disc, of a spring, a pivoted rocker having teeth engaging with the pin disc, a sliding stud, a connecting rod pivotally secured to the rocker, and links connecting the said stud and spring, substantially as described. 6th. The combination, with the rotatable apertured shutter having the pin disc, of a spring, a pivoted rocker arm having teeth engaging with the pin disc, a sliding stud, a connecting rod pivotally secured to the rocker, a link connecting said rod and spring, and a link telescopically united with the stud, substantially as described. 7th. The combination, with a rotatable apertured shutter having a peripheral detent, of a spring, connections between the spring and shutter, an operating stud, a pivoted pawl adapted to engage the detent, an arm on the pawl engaging the stud, and a telescopic device uniting the stud and said connections, substantially as described. 8th. The combination, with a rotatable and apertured shutter having a plurality of peripheral detents, of a spring, connections between the spring and shutter, an operating stud, a pivotal pawl adapted to alternately engage the detents, a stop for arresting the movement of the shutter, an arm on the pawl engaging the stud, and a telescopic device uniting the stud and said connections, substantially as described. 9th. The combination, with a guide way of a cross head embracing the guide way, a movable block and a thumb screw in said cross head, and a flat spring between said guide and cross head, one end of which is fixed, the other end being free, substantially as described. 10th. The combination, with a guide way, of a cross head embracing the guideway, a pointer on the cross head, a movable lock and thumb screw in said cross head, a flat spring between the said guide and cross head, an end of which is fixed, the other free, and an index adjacent to said pointer, substantially as described. 11th. The combination, with the pivoted shutter 4, having the detents 7, 8, of a spring, an operating stud 20, having the shoulder 22, the shutter spring and stud being connected, and the pivoted spring pressed pawl 30, and arm 32, the pawl alternately engaging the detents 7, 8, substantially as described. 12th. The combination, with the pivoted shutter 4, having the detents 7, 8, of a spring, an operating stud 20, having the shoulder 22, the shutter, spring and stud being connected, a stop 36, and the pivoted spring pressed pawl 30, and arm 32, the detents alternately engaging the stop and pawl, substantially as described. 13th. The combination, with the pivoted shutter 4, having the disc 10, and concentrically disposed pins 11, of the pivoted rocker 14, having the teeth 15, the connecting rod 17, on the rocker, the spring 26, the link 25, uniting the said spring and rod, the recessed stud 20,