

adjusting the same, and the counter arm K₁ with weight K₂, substantially as and for the purpose hereinbefore set forth. 3rd. The combination, in a leather crimping machine, of the frames a and the mode of transmitting power to the instep-shaped punch E, the rigid bed G, and the bearings H, substantially as and for the purpose hereinbefore set forth. 4th. The combination, in a leather crimping machine, of the punch and press plate with the mould G in two halves, provided with rubber strips at the sides, adjusted in proper position by means of set screws through the flanges of the bed F, and that portion of mould G, to slip in the round end of mould, substantially as and for the purpose hereinbefore set forth. 5th. In a leather crimping machine, the combination of the crimping punch e, the press plate and the mould with the concave and instep-shaped under pressure foot f, and the apparatus for moving the said foot up and down, all operating substantially as and for the purposes hereinbefore set forth. 6th. The combination, in a leather crimping machine, of the machine frames and legs, with the operating parts operating conjointly in transmitting power to the punch and press plate, with the mould and bed for same, and the under pressure foot with its apparatus for working the same, substantially as and for the purpose hereinbefore set forth.

No 23,766. Process of, and Apparatus for Treating Essential Oils to obtain the Concrete or Crystalline part thereof separate and apart from the Liquid Portion. (*Procédé de Traitement des Huiles Volatiles pour en Extraire le Cristallin de la Partie Liquide*)

Albert M. Todd, Nottawa, Mich., U.S., 6th April, 1886; 5 years.

Claim.—1st. The process of obtaining a crystalline product from the oil of Mentha Piperita by first, congealing it or rendering it in a semi-solid or jelly-like form, then separating or isolating it by gradually draining off the oil therefrom, and, thirdly, perfecting or hardening the crystalline mass by fusing the crystals and subjecting them to a second congealing and a gradual raising in temperature, substantially as described and for the purposes specified. 2nd. The process of obtaining a crystalline product from the oil of Mentha Piperita, by first, congealing or rendering it in a semi-solid or jelly-like form, then isolating the crystalline portion by separating the oil therefrom, and, thirdly, perfecting or hardening the crystalline product by a gradual raising in temperature, substantially as described. 3rd. The process of obtaining a crystalline product from the oil of Mentha Piperita which consists in first, congealing it in a semi-solid or jelly-like form, then isolating the crystals by separating the fluid portion thereof, substantially as described. 4th. In an apparatus for crystallizing essential oils, the combination of an oil containing receptacle, a tank situated inside of said receptacle, and a vat surrounding the same on the outside, said inner and outer vessels being adapted to be supplied with a suitable refrigerating substance, substantially as described. 5th. In an apparatus for crystallizing essential oils, the combination of an oil-containing receptacle having a suitable drainage, a tank situated inside of said receptacle, a vat surrounding the same, said inner and outer vessels being adapted to be filled with a refrigerating substance and means for heating the device, substantially as described. 6th. In an apparatus for crystallizing essential oils, the combination of an oil-containing receptacle, having a removable cover, drain pipes having valves connected to the receptacle, a tank situated within the receptacle, an outer vat surrounding the oil-containing vessel, and means for feeding the said inner and outer vessels with a refrigerating substance, substantially as described. 7th. In an apparatus for crystallizing essential oils, the combination of an oil-containing receptacle having a depressed bottom, a drain pipe connected to the apex of said bottom, a removable cover having an air pipe with suitable valves, a tank removably situated within the oil-containing receptacle, and a vat surrounding the outside thereof, said inside and outside vessels being adapted to be fed with a refrigerating substance, substantially as described. 8th. In an apparatus for crystallizing essential oils, the combination of an oil containing receptacle having suitable drainage, an air pipe supporting a trap connected to the removable cover of said containing receptacle, an inside tank containing suitable means of refrigeration, a surrounding vat also provided with refrigerating appliances, and a coil of pipe in the bottom of said vat adapted to be supplied with a suitable heating substance, substantially as described. 9th. In an apparatus for crystallizing essential oils, the combination of an oil-containing receptacle having suitable drain pipes in its sides and bottom, an air pipe connected to the top thereof, having an elbow extending into, and surrounded by a closed jacket, and means for feeding this jacket with a suitable refrigerating substance, substantially as described. 10th. In an apparatus for crystallizing essential oils, the combination of an oil-containing receptacle having suitable drain pipes in its sides and depressed bottom, a removable cover therefor having an air pipe entering and supporting a trap connected thereto with suitable valves and an escape pipe, an internal tank resting on the depressed bottom of said containing receptacle having suitable handles and a removable top, a vat surrounding these vessels, said inner and outer vat being adapted to be fed with a refrigerating substance by suitable means, and a heating coil lying in the bottom of the surrounding vat being adapted to be fed with a suitable heating material, substantially as described. 11th. In an apparatus for crystallizing essential oils, the combination of an oil-containing receptacle having suitable drain pipes, an internal tank removably situated inside of the containing receptacle, a vat surrounding these vessels, said internal and external vessels being provided with a coil of refrigerating pipes suitably supported therein, and supplied with a suitable refrigerating substance, and a coil of pipe in the bottom of the surrounding vat supplied with a heating material when desired, substantially as described. 12th. In an apparatus for crystallizing essential oils, the combination, with a surrounding vat containing a suitable refrigerating substance, of a centrifugal drying device consisting of a perforated vessel in the form of an inverted frustum of a cone, a vessel surrounding this perforated vessel for catching the oil, and suitable gears and shafts to which power is applied for turning

the said perforated vessel at a desirable rate of speed, substantially as described. 13th. In an apparatus for crystallizing essential oils, the combination of an oil-containing receptacle provided with suitable drainage, for separating the liquid from the solid portion, and means for ingress of air above the surface of the oil, substantially as described. 14th. In an apparatus for crystallizing essential oils, the combination of an oil-containing receptacle surrounded by, or enclosing a tank suitably adapted for containing a refrigerating medium, said receptacle having suitable drainage adapted for separating the liquid from the solid portion, substantially as described. 15th. In an apparatus for crystallizing essential oils, the combination, with a containing vessel A, of an air pipe or opening D, provided with a condenser D adapted to condense and recover the vapors from said containing vessel, substantially as described. 16th. In an apparatus for crystallizing essential oils, the combination of a containing vessel A having suitable drain pipes A₃, a tank C situated within said containing vessel A, an outer vat B, surrounding vessels A and C, said inner and outer vessel being fed with a refrigerating substance, and a heating coil E, in the bottom of the vat, substantially as described. 17th. The hereinbefore described concentrated and crystalline product obtained as stated from the oil of Mentha Piperita, fusible only at high temperatures and having the properties of remaining dry and hard and if not liquifying at ordinary atmospheric temperatures.

No. 23,767. Bottle Stopper.

(*Bouchon de Bouteille.*)

William Beardsley, Beacon, Iowa, U.S., 6th March, 1885; 5 years.

Claim.—The combination, with the apertured cap fitted upon the bottle-neck, of the apertured packing interposed directly between the cap and the upper edge of the bottle-neck, and provided, upon the inner surface around its aperture, with a pendent annulus or flange, and the ball-valve, substantially as and for the purpose set forth.

No. 23,768. Regenerative Gas Stove.

(*Poêle à Gaz Rénovificateur.*)

John W. Baker, Philadelphia, Penn., U.S., 6th April, 1886; 5 years.

Claim.—1st. A gas stove having a drum of the form of an annulus with a thimble communicating therewith, a burner surrounding the same with a passages, and a chamber receiving products of combustion and air, said chamber being in communication with the thimble, whereby the mingled products of combustion and air are directed into the drum, substantially as described. 2nd. A gas stove consisting of upper and lower drums and flues communicating therewith, a thimble, a gas burner with air passages around the same, and a chamber, whereby the products of combustion and air are directed into said chamber, and then passed through the thimble into the drums and flues, substantially as described. 3rd. A gas stove consisting of upper and lower drums and vertical flues communicating therewith, the lower drum being of the form of an annulus, pipes radiating from the inner periphery of the lower drum, an inverted thimble connected with said pipes, air passages surrounding the burner, and a chamber, said parts being arranged and combined substantially as described, whereby the products of combustion enter the chamber and then pass into the thimble by which they are directed into the lower drum, and from thence through the flues into the upper drum, substantially as described.

No. 23,769. Drying Frame for Lace Curtain.

(*Châssis pour Sécher les Rideaux de Dentelle.*)

John Ptolemy, Winnipeg, Man., 7th April, 1886; 5 years.

Claim.—The combination of the bars A, with legs K, K, braces F, F, either fixed or folding, adjusting strut G, G, covering plates C, C, with centre legs D, D, cross-bars B, B, pins, bolts and perforations H, H, substantially as and for the purpose hereinbefore set forth.

No. 23,770. Machine for Tile Ditching.

(*Machine à Drainage en Tuile.*)

William A. Boyd, Ekfrid, Ont., 7th April, 1886; 5 years.

Claim.—1st. The combination of the shovel B, the elevator D, D, and the discharge elevator L, substantially as and for the purposes hereinbefore set forth. 2nd. The combination of the lever F, with the shovel B, the elevator D, D, and the discharge elevator L, substantially as and for the purposes hereinbefore set forth. 3rd. The combination of the lever F, the shovel B, the elevator D, D, and the discharge elevator L, with the combined bevelled gear wheel H, and the square gear wheel S, the pinion wheel T, and the pulley K, as operating parts, substantially as and for the purposes hereinbefore set forth.

No. 23,771. Barley Machine.

(*Machine à Perler l'Orge.*)

Sigmund Spitzer, Chicago, Ill., U.S., 7th April, 1886; 5 years.

Claim.—1st. The combination of the revolving stone, the perforated enclosing casing revolving in opposite direction to said stone, and the stationary casing, with the shafts f, valves f provided with the arms f, weight v, and the tappets p, rod h, cam s, and the gearing, whereby said valves are actuated, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the revolving stone B, pulley b, the perforated revolving casing C revolving in opposite direction to said stone, gear-wheel d, the pinion d, shaft d, and cone pulleys a and e, substantially as and for the purpose hereinbefore set forth. 3rd. A pearl barley machine comprising the frame A, shell D, the revolving stone B, revolving perforated casing C, provided with the opening e, and forming, with said shell, the space a, the mechanism for actuating said stone and casing, and the shafts f, arms f, tappets p, valves f, and weights v secured on