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Title: Milk-cooling device

Abstract: Source: US1742119A 1. Having described the invention, I claim: A milk cooling device comprising a receptacle for the reception of cracked ice or cold water, said receptacle having one of its ends having an lower extension, and at milk receiving chamber disposed over said extension, ai removable closure for said chamber and said chamber having an outlet spout, upper and lower series of tubes extending longitudinally thiroughli the ends of the casing, and the lower Series of tubes being extended into the milk receiving clamber, one of said lest mentioned tubes providing il milk outlet, fiexiblc couplings frictionally engaging the ends of the tubes, for establisliing at milk circulation thirou li all of the tubes, a milk receiving receptuie and u flexible coupling between the outlet of the receptacle and one of the upper series of the tiibes. - In testimony whereof I aflix my signature

Classifications:

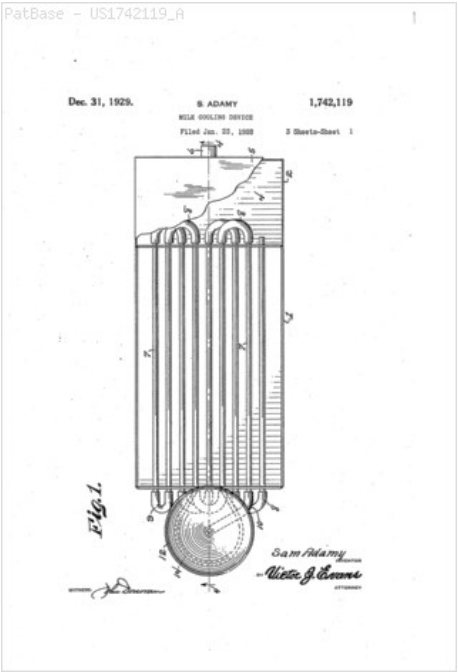
International (IPC 8-9): A01J9/04 (Advanced/Invention);
A01J9/00 (Core/Invention)

International (IPC 1-7): F28D1/04

CPC: A01J9/04

European: A01J9/04

US: 165/178



Family:

Publication number	Publication date	Application number	Application date
US1742119 A	19291231	US19280248904	19280123

Priority:

US19280248904 19280123

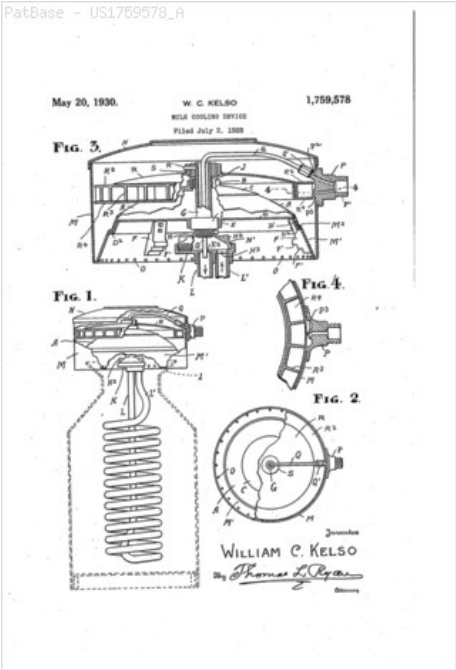
Assignee(s): (std): OTIS H EVANS

Inventor(s): (std): SAM ADAMY

Inventor(s): ADAMY SAM

Title: Milk-cooling device

Classifications:
International (IPC 8-9): A01J9/04 (Advanced/Invention);
A01J9/00 (Core/Invention)
International (IPC 1-7): A01J9/04
CPC: A01J9/04
European: A01J9/04
US: 165/74 165/85 99/455



Family:

Publication number	Publication date	Application number	Application date
US1759578 A	19300520	US19280289897	19280702

Priority:

US19280289897 19280702

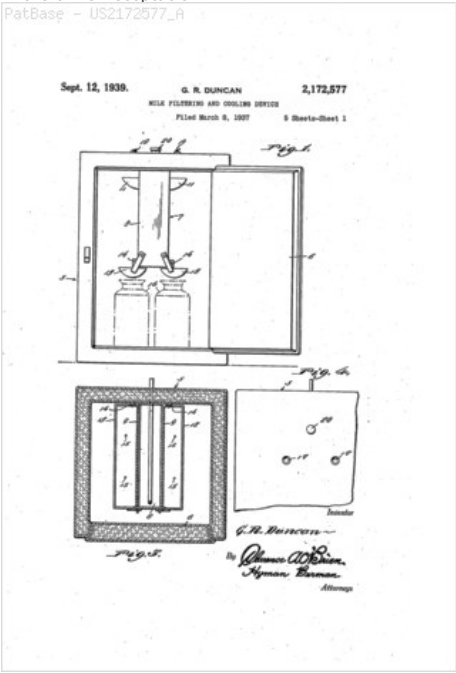
Assignee(s): (std): PEARL WILSON ; WILSON WILLIAM J

Assignee(s): WILLIAM J WILSON

Inventor(s): (std): KELSO WILLIAM C

Abstract: Source: US2172577A 1. In a milk cooling apparatus of the character described, an. insulated casing, an aerator mounted vertically in said casing intermediate opposed walls of said casing and said aerator including a brine receptacle having opposed vertical corrugated walls, and said casing having in the top thereof through openings opening into the casing at opposite sides of the brine receptacle and positioned relative to the corrugated walls of the brine receptacle as to be selectively usable for introducing milk into the casing to dow downwardly over a selected corrugated wall of the brine receptacle and a circulating coil for a cooling agent arranged in the brine' receptacle.

Classifications:
International (IPC 8-9): A01J9/04 (Advanced/Invention);
A01J9/00 (Core/Invention)
International (IPC 1-7): A01J9/04
CPC: A01J9/04
European: A01J9/04
US: 141/331 62/304 62/311 62/390 62/391 99/455

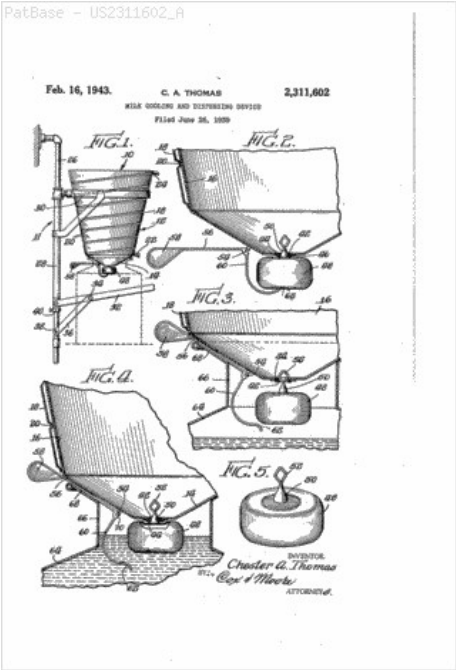


Family:

Publication number	Publication date	Application number	Application date
US2172577 A	19390912		00000000

Title: Milk cooling and dispensing device

Classifications:
International (IPC 8-9): A01J9/04 F25D31/00 (Advanced/Invention);
A01J9/00 F25D31/00 (Core/Invention)
International (IPC 1-7): F28D1/06
CPC: A01J9/04 F25D31/002
European: A01J9/04 F25D31/00C
US: 141/201 141/335



Family:

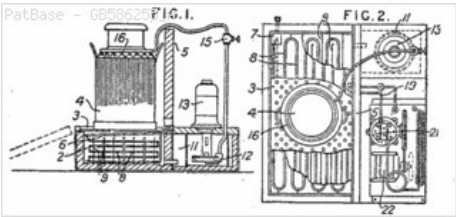
Publication number	Publication date	Application number	Application date
US2311602 A	19430216	US19390281230	19390626

Priority:
US19390281230 19390626
Assignee(s): (std): BABSON BROS CO
Inventor(s): (std): THOMAS CHESTER A

Title: Improved means for cooling milk

Abstract: Source: GB586255A 25419/44 and 4843/45. [Class 29] A self-contained refrigerated milk cooler comprises a spray ring 16 adapted to encircle the neck of a milk churn 4, and a compartment 2 having cooling coils 8 for collecting the water after it has passed over the churn, the water first contacting with the coils nearest the suction side of the compressor 21. The churn 4 stands on a perforated plate 3 above an inclined tray 6 from which the water runs through an aperture 7 to the collecting compartment 2 containing the evaporator coils 8 separated by baffles 9 providing a sinuous path for the water to the sump 11 of a pump 12 driven by a motor 13. The pump feeds the cooled water to the movable spray ring through a valve 15. The compressor 21 of the refrigerating machine is driven by a motor 22 and the suction pipe 19 of the compressor is connected to the top coil of the evaporator which is brazed to the tray 6. There will thus be no tendency for ice to form on this top coil. A hinged flap 5 forms a splash guard as shown or a lid for the compartment 2. Alternatively this flap may be hinged to the outside edge of the compartment 2 and swung down to form a ramp for the churns. The motors can be replaced by a small internal combustion engine. The coils may be spaced from the top of the compartment 2 to allow an ice-free space for the flow of water, and may have fins projecting into this space. For hot climates an insulated hinged cover may be arranged to enclose the drum.

Classifications:
International (IPC 8-9): A01J9/04 (Advanced/Invention); A01J9/00 (Core/Invention)
International (IPC 1-7): A01J9/04
CPC: A01J9/04
European: A01J9/04



Family:

Publication number	Publication date	Application number	Application date
GB586255 A	19470312	GB19440025419	19441218

Priority:
GB19440025419 19441218

Assignee(s): (std): ARTHUR VALENTINE LANDER ; FREDERICK ARTHUR SAMUEL ABBOTT ; FRIGIDAIRE LTD
Assignee(s): FRIGIDAIRE LIMITED

Title: MILK COOLING ATTACHMENT FOR MILKING MACHINES

Abstract: Source: US2610034A (Claim 1) In apparatus of the class described, a milk receiver, a milking head provided with milk emitting means and suction connection, a cooling unit including a lid covering said receiver with a fluidtight fit, a reservoir carried by said lid above said receiver, having fluid connection with the receiver, and adapted to receive milk from said head and covered by said milking head with a fluidtight fit, whereby to maintain subatmospheric pressure within the receiver and the reservoir, a cooling element carried by and beneath said lid, and provided to receive milk from said reservoir, and a conduit interconnecting the reservoir and the receiver for equalizing the subatmospheric pressures therein,

Classifications:

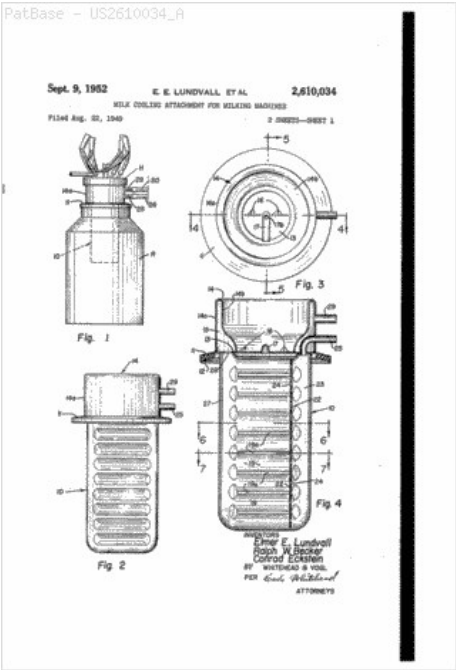
International (IPC 8-9): A01J9/04 (Advanced/Invention);
A01J9/00 (Core/Invention)

International (IPC 1-7): A01J9/04

CPC: Y10S165/349 A01J9/04

European: A01J9/04

US: 165/115 165/132 165/170 165/171 165/174 165/47 165/74 165/DIG.349 99/452 99/454 99/455



Family:

Publication number	Publication date	Application number	Application date
US2610034 A	19520909	US19490111662	19490822

Priority:

US19490111662 19490822

Assignee(s): (std): INSTANT MILK COOLING CO I ; INSTANT MILK COOLING COMPANY I

Assignee(s): INSTANT MILK COOLING COMPANY INC ; INSTANT MILK COOLING CO INC

Inventor(s): (std): BECKER RALPH W ; CONRAD ECKSTEIN ; LUNDVALL ELMER E

Inventor(s): ECKSTEIN CONRAD

Title: MILK COOLER

Abstract: Source: US2610035A (Claim 1) I claim: In a cabinet for cooling milk cans and having a tank in the bottom thereof for a cooling liquid and a plurality of can-supporting rollers, means for cooling a can comprising a pair of pipes extending horizontally adjacent the neck of said can on opposite sides thereof, said pipes each having a plurality of outlets directed horizontally but at slightly different angles from said pipe and toward said can for spraying cooling liquid uniformly over a substantial area of the surface of said can.

Classifications:

International (IPC 8-9): A01J9/04 F25D17/02 F25D25/00 (Advanced/Invention); F25D31/00 (Advanced/Non-invention); A01J9/00 F25D17/00 F25D25/00 (Core/Invention); F25D31/00 (Core/Non-invention)

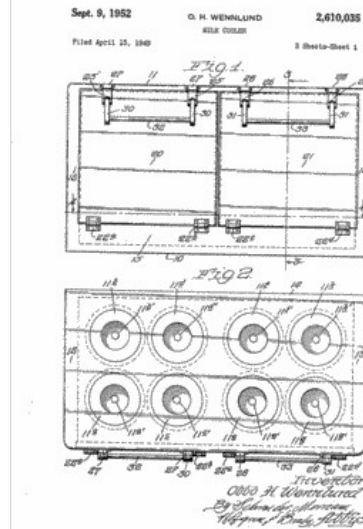
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CPC: Y10S165/225 F25D25/00 A01J9/04 F25D17/02 F25D31/006 F25D2331/8051

European: A01J9/04 F25D17/02 F25D25/00 R25D31/00H R25D331/8051

US: 165/118 165/120 165/72 165/DIG.225 312/318 62/373 62/396

PatBase - US2610035_A



Family:

Publication number	Publication date	Application number	Application date
US2610035 A	19520909	US19490087752	19490415

Priority:

US19490087752 19490415

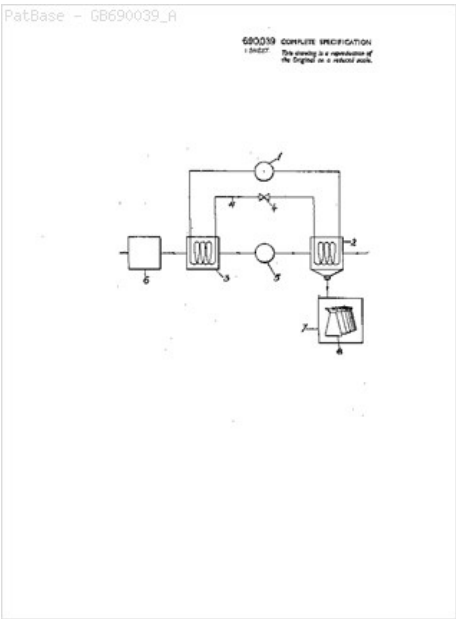
Assignee(s): (std): WENNLUND OTTO H

Inventor(s): (std): WENNLUND OTTO H

Title: Agricultural machinery for cooling one substance and drying another

Abstract: Source: GB690039A 690,039. Drying air; refrigerating. AGRICULTURAL and INDUSTRIAL DRYERS, Ltd. Jan. 19, 1951 [Jan. 20, 1950], No. 1605/50. Classes 29 and 34 (i). In apparatus for drying air for agricultural drying apparatus by passing the air over the evaporator coil 2 of a compression-expansion-condensation refrigerating system where the air is cooled and dried, then over the condenser coil 3 where it is warmed before being passed to the drying apparatus 6, the condensate formed on the evaporator coil is used to cool milk by means of a heat exchanger 7. Specification 656,898 is referred to.

Classifications:
International (IPC 8-9): F26B21/08 (Advanced/Invention); F26B21/06 (Core/Invention)
International (IPC 1-7): A01J9/04
CPC: F26B21/086
European: F26B21/08C



Family:

Publication number	Publication date	Application number	Application date
GB690039 A	19530408	GB19500001605	19500120

Priority:
GB19500001605 19500120

Assignee(s): (std): AGRICULTURAL AND IND DRYERS LTD

Assignee(s): AGRICULTURAL AND INDUSTRIAL DRYERS LIMITED ; AGRICULTURAL AND INDUSTRIAL DRYERS LTD

Inventor(s): (std): ROBIETTE ALFRED GORDON EVANS

Title: Milk cooler

Abstract: Source: US2659579A . For Cfii' III\j\$}1C!, my ixnprove;i zippaietus can be Used tor iJer'ormi':ig a Dasteurizinc' operation. by nowin; :L heating; mccliuzn such as hot water' or steam through T aiaiw 1. In cooling e.\$jpa1'RLtus of the class described, the coibinot-iozi of o roiatoblo cooling coil, suporting ;:-torn: for rotateinly supportizig sein coil, unter oiotor fo: revolving said coil coininisiilg cc turbine wheel against which the entering :voter is odeptezl to impinge, find moons outometically resgzofisive to the pressure of the entering water for controlling the eieictii ences of the action of the jet against said wlioci, Wlic;'ei;iy to prevent wi-sse variations oi pressure of the entering water from mocincizis wide variations of speed in the turioine wheel. 2, In cooling amzoratzis of the class described, the combination of s rotatable cooling coil, suporting means for rotatably SIDD13U1'ti11g said coil, it turbine wheel for revolving said coil, st jet for projecting; a stream ci V'soniel' against said turbine wheel, means for causing the Water which has been discharged against said turbine wheel to thereafter circulate tizrougli said cooling coil in the pei'foa'm.:iice of the cooling function, water outlet means coniprising fi non-rotating outlet fitting receiving the water from said coil, and including 2 :non-rotating outlet pipe leading from i Qi o Jil Zi il -I BU ai on es said outlet itting, and means automatically responsive to the pressure of the water supplied to said jet for controlling the eiectiveness of said jet on the turbine wheel for olztaining automatic speed regulation, by increasing the effectiveness cf said jet under low Water pressures and decreasing the efectiveness of Set under high water pressures. 3. In apparatus of the ciess described for cooling mill; in the conventional mill; crm, the combinstion of a support adapted to rest in the open top of said can, 5. cooling coil rotatably mounted on said support and adopieol for iniinersion in the 2, rotatable tubular shaft rotatably supportiig said cooling coil and connected therewith for circulating cooling water tiierethrough, a, turbine wheel eonnectei irith the upper end of tubuior shaft, 2, housing for said turbine Wheel, a water inlet _ict in seirl ltcusing' for discharging inlet cooling water zzgaiisi; said turbine wheel, and Q, pressure rcszonsisive vane for controlling the iliiioiigcinerir of the water cLfsc1a1'a'g- Eng from said nozzle agoiisiz turbine Wheel. =i. In apparatus of the class describes] for cooling mill; in the conventional mill; con, the combination of o support odiptci to rest in the open ton of can, a tiiliivinn wliocl housing carried by sein support, tinwiino iaieei in said housing providoci with reaction wines, o writer inlet nozzle opening' into said housing to ilkclioige inlet cooling water against the 'Jones of said turbine wheel, at tubular drive shaft rotatably supporting said turbine wliocli in said housing one extending clownwarclly tlierei-uni, o cooling coil supported sold shaft snr! ii.;'~.=511g coxnznixnicotoli with the interior thereof, the cooling; water, after e;'\~"ssi't' ` ' ;:u_ ig il!;p\$1S{; wheel, passirig dow1i',»_fe1'oly from said cilminez' through slznniz and thence upv/a'icily reaction on the varies of said turbine tiiroughl said cooling coil, discharge nicans for discharging the cooling water from the upper end of said eooling coil, :incl means for regulating the rotebive speei of turbine urn;-el and cooling coil comprising tt deflcttin; vane for cleflecting water from said nozzle into the i,u;'i:ine vones and movable to chiferent positions oegoenclng upon the pressure of the water issuing from said nozzle. 5. In a,ppa,1'e,tus of the class described for cooling milk in the conventioiml zniiirz can, the coibinbstion of a susvport soiuitcrl to rest in the open top of said can, si turbine wheel cliomlaer carried by said support, si turbine wheel in said chainlizer. in said chamber for 2, cooling Water inlet nozieie directing' inlet Water agonist the renee: of said turbine wheel, si tubular rotatably supporting said turbine wheel, a cooling coil ccznznunicat.. ing with the interior ui saiai :bait and rotated thereby, the water, after Ji;~;Ji;;gcincni; reaction 011 the varies of said turbine Wheel passing through ,-mid tuizzler shaft audi through :aid cooling coil for cooling the zniiiz, :nd simon re;'uiJting means operative to cause vertical clisplzicincnt of said turbine wheel in response tc cliicrcnt pressures of the cooling water 2"112e;'b3f to change the clisctiveness of the nozzle _ltj;iech:.';Se against tlio vancs of said turbine wheel. S, In a,ppe11'oi;i:s of the Class described for cooling inilk in a iniii; C;£711\LEç i11Ci', the combination of ei support adopter Lo res.; on solo container, a. housing corrieui by snii suiispolt, ei reaction wheel rotatably mounted in said housing, a cooling Water inlet nozzle in said housing for cliirecting entering water against saiz reaction wheel for rotating the latter, fi tubular drive shaft cx;end_ ing downv./erdlly frc:-n said reaction wheel and driven thereby, a cooling coil rotated by said shaft and cornznunicating with the interior thereof, the cooling water after reaction impillgemeflii against said reaction wheel passing clownwardly through said tubular drive shaft and through said cooling coil for cooling the milk, an outlet connection through which the discharge end of said cooling coil discharges, a, rotary seal for said outlet connection, and means shiftable axially of said seal in response to the pressures of the water supplied to said nozzle for automatically causing the sealing pressure against said rotary seal to vary substantially in accordance with different Water pressures supplied to said inlet nozzle. 7. In apparatus of the class described for cooling rnilk in a milk container, the combination of a support adapted to rest on said container, e. housing carried by said support, a reaction wheel rotatably mounted in said housing, a cooling water inlet nozzle in .said housing for directing entering water against said reaction wheel for rotating the latter, a tubular drive shaft extending clownwardly from said reaction wheel and driven thereby, a. cooling coil rotated by said shaft and communicating with the interior thereof, the cooling Water after reaction irnpinqement against said reaction wheel passing clownwardly through said tubular drive shaft and through said cooling coil for cooling the milk, an outlet chamber connecting with the discharge end of said coil, said outlet chamber rotating with said coil, a stationary outlet connection leading from said outlet chamber, a rotary seal for establishing a relatively tight joint between said outlet chamber and said outlet connection, and a Hexible diaphragm comprising part of said outlet chamber arranged to respond automatically to the pressure of the water therein for exerting a sealing pressure against said rotating seal which varies with the pressure of the water in said outlet chamber, whereby the rotary seal presents minimum friction to rotation under low starting pressures or low running pressures. 8. In apparatus of the class described for cooling milk in a milk container, the combination of 2. support adapted to rest on said container, a housing carried by said support, a reaction wheel rotatably mounted in said housing, a cooling Water inlet nozzle in said housing for directing entering water against said reaction wheel for rotating the latter. a tubular drive shaft extending clownwardly from said reaction wheel and driven thereby, a cooling coil rotated by said shaft and communicating with the interior thereof, the cooling water after reaction impingement against said reaction wheel passing clownwardly through said tubular drive shaft and through said cooling coil for cooling the milk, an outlet chamber connecting with the discharge end of said cooling coil and rotating therewith, a. stationary outlet connection leading from said outlet chamber, a sealing ring for sealing the rotating joint between said outlet chamber and said outlet connection, and means for causing vertical displacement of the upper wall of said outlet chamber in response to changes of pressure of the water supplied to said nozzle whereby to exert oliiferent degrees of sealing pressure against said sealing ring with changes of water pressure, for minimizing starting friction and also exercising an automatic speed regulating control on said reaction wheel. 9. In apparatus of the class described for cooling milk in a milk container, the combination of a support adapted to rest upon said milk container, a turbine wheel housing carried by said support, a substantially vertical tubular drive shaft entering said housing, a turbine wheel mounted on said shaft within said housing, a cooling water inlet nozzle in Said housing directing cooling water against the vanes of said turbine wheel, a cooling coil supported by the lower portion of said drive shaft and communicating therewith, whereby the cooling Water, after exerting impulse reaction against the vanes of said turbine wheels, passes clownwardly through said hollow drive shaft and thence through said rotating cooling coil for coolnig the niillr, said tubular drive shaft and turbine wheel being capable of vertical shifting movement in said housing for disposing the turbine varies at different heights relatively to said inlet nozzle, an outlet port establishing a communication of constant size between the interior of said drive shaft and the chamber area lying above said turbine wheel, and a lower outlet port in the wall of said tubular drive shaft for discharging water from the area below said turbine Wheel into said tubular drive shaft_ and means coacting with said lower port for varying the effective area thereof as said shaft and turbine wheel are displaced vertically. 10. In apparatus of the class described for cooling rnilk in the conventional milk can, the combination of a, support adapted to rest in the open top of said can, said support comprising an outwardsly and clownwardly sloping top surface discharging out over the top of the can, a stationary housing carried by said support and spaced upwardly therefrom, a water wheel in said housing, an inlet nozzle for discharging cooling water against said water wheel, a tubular drive shaft rotatably supporting said water wheel and extending clownwardly from said housing, a cooling coil carried by said drive shaft and communicating therewith, whereby the cooling water, after imparting reaction energy against said water wheel, is conveyed clownwardly through said tubular drive shaft and thence through said cooling coil for cooling the znlik, a rotating outlet chamber disposed below said housing and receiving the outlet water from said cooling coil, a stationary outlet connection for receiving the outlet water from said chamber, a stationary outlet duct leading from said stationary outlet connection for discharging the water therefrom, there being a rotating joint between said rotating outlet chamber and said stationary outlet connection. and a clownwardly and outwardsly sloping spinner surface on said rotating chamber below the plane of said water wheel for conveying any leakage water from said joint clownwardly and outwardsly for precipitation on the clownwardly anci outwardsly sloping upper surface of said support.

Classifications:

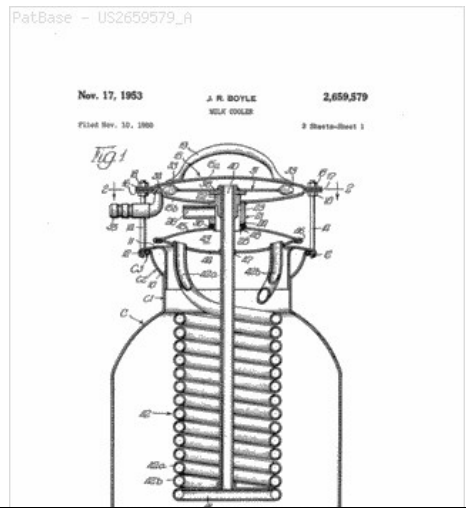
International (IPC 8-9): A01J9/04 (Advanced/Invention); A01J9/00 (Core/Invention)

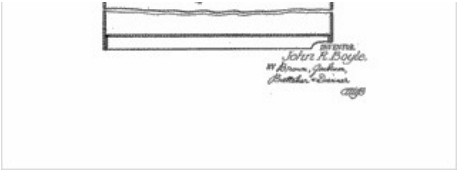
International (IPC 1-7): A23C3/04

CPC: A01J9/04

European: A01J9/04

US: 165/281 165/73 165/74 165/85 165/86 165/92 415/202





Family:

Publication number	Publication date	Application number	Application date
US2659579 A	19531117	US19500194988	19501110

Priority:

US19500194988 19501110

Assignee(s): (std): EDWARD A MERTES

Inventor(s): (std): BOYLE JOHN R

Title: Cooling liquids.

Abstract: Source: GB1052076A 1,052,076. Cooling liquids. ETABLISSEMENTS BOUCHAYER ET MALLET. April 15, 1965 [April 20, 1964], No. 16330/65. Heading F4H. A milk cooling tank comprises a container 1, an insulating jacket 4-6, and an evaporator coil 36 in the space 30 between the jacket and container and spaced from the latter. The container and part of the jacket flare upwardly uniformly about their vertical axes and may be of hemispherical, conical, elliptical or parabolic form or a combination of such forms. Liquid is supplied to the space 30 by a distributor pipe 35 and is withdrawn through a pipe 33 for recirculation by a pump 32. The ice-bank formed on the evaporator is prevented from touching the container 1 by a thermostat 40 which stops the refrigerating machine when a predetermined ice-thickness is attained. Container 1 is provided with an hinged lid 11, an agitator 13 arranged to promote a rising circulation of milk over the interior surface of the container, a thermostat 15 and an outlet pipe 27 having a plug 25. Thermostat 15 normally controls the operation of pump 32 and agitator 13 but may also energize the refrigerating machine when the milk temperature exceeds a predetermined value subject to over-riding control by thermostat 40.

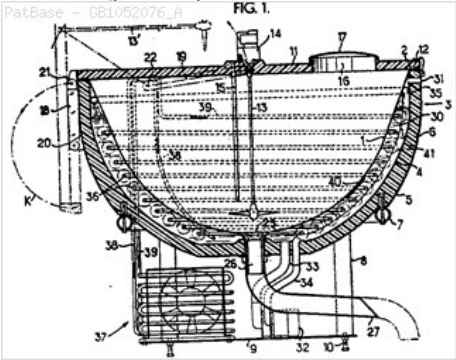
Classifications:

International (IPC 8-9): A01J9/04 F25D31/00 (Advanced/Invention)

International (IPC 1-7): A01J9/04 A23C3/04 F25D17/02 F25D31/00

CPC: A01J9/04 F25D31/003 F25D31/006

European: A01J9/04 F25D31/00C2 F25D31/00H



Family:

Publication number	Publication date	Application number	Application date
DE1492782 A1	19691009	DE19651492782	19650420
DE1492782 C3	19730405	DE1965E029150	19650420
ES312042 A1	19650701	ES19650312042	19650420
FR1401299 A	19650604	FR19640971510	19640420
GB1052076 A	00000000		00000000
NL6504850 A	19651021	NL19650004850	19650415

Priority:

FR19640971510 19640420

Assignee(s): (std): BOUCHAYER AND VIALLET SA ETS ; BOUCHAYER AND VIALLET SOC ANONYM ; GEN EQUIPEMENT ; GEN EQUIPEMENT S A ; GENERALE D EQUIPEMENT S A GRENoble ISERE FRANKRE

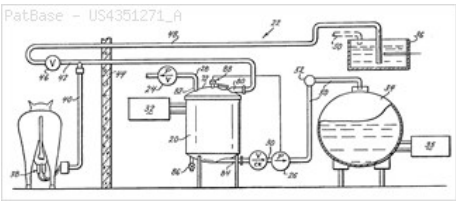
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Inventor(s): (std): LANGLOYS GILLES ; LANGLOYS GILLES LA TRONCHE ISERE ; PARANT DANIEL ; PARANT DANIEL GRENoble

Title: Refrigerated receiver

Abstract: Source: US4351271A A refrigerated receiver in an automatic milking system has a coiled plate type heat exchanger disposed therein for pre-cooling milk before it is pumped into a milk cooling and storage tank. The heat exchanger is adapted for use in a direct expansion refrigeration system which can be operated in a heating mode to heat wash water as it is circulated through the system. The coiled plate type heat exchanger can be cleaned and inspected while in place inside the generally cylindrically shaped receiver unit as it is substantially vertically oriented with a generally annular space between successive turns of the coiled plate.

Classifications:
International (IPC 8-9): A01J9/04 (Advanced/Invention); A01J9/00 (Core/Invention)
International (IPC 1-7): A01J9/04
CPC: A01J9/04
European: A01J9/04
US: 119/14.09 119/14.18 119/14.46



Family:

Publication number	Publication date	Application number	Application date
EP0059201 A1	19820908	EP19810902406	19810819
US4351271 A	19820928	US19800184128	19800904
WO8200748 A1	19820318	WO1981US01112	19810819

Priority:
US19800184128 19800904

Assignee(s): (std): MUELLER CO PAUL ; MUELLER PAUL CO

Assignee(s): PAUL MUELER CO ; PAUL MUELLER CO ; PAUL MUELLER COMPANY

Inventor(s): (std): MANNA D ; MUELLER P ; PRINE R ; PRINE RAY A ; MUELLER PAUL ; MANNA DANIEL C

Designated states: DE DK FR GB NL SE

Title: DEVICE FOR PRODUCING SOYBEAN MILK

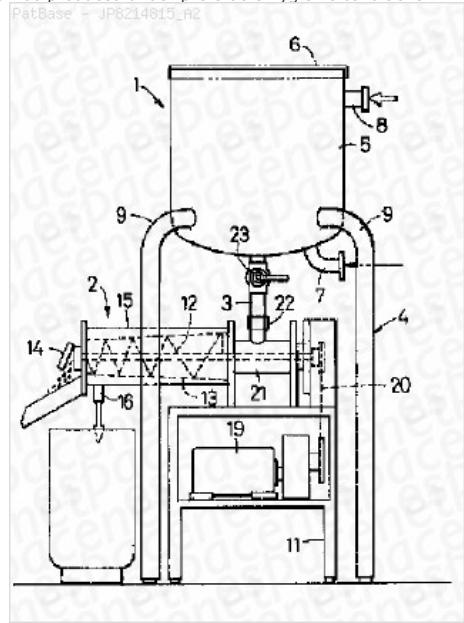
Abstract: Source: JP8214815A PURPOSE: To provide a collectively treating device for soybean milk capable of boiling a raw slurry of soybeans as an intermediate raw substance for soybean milk and pressing the prepared boiled slurry of soybeans. CONSTITUTION: This device for producing soybean milk is equipped with a kettle 1 for boiling a raw slurry of soybeans and a presser 2 for compressing the boiled slurry of soybeans. The presser 2 is laid on a floor, the kettle 1 is arranged above it and a space required for installation of both the apparatuses is reduced. The kettle 1 is connected to the presser 2 by a passage 3 and the boiled slurry of soybeans is sent through the passage 3 to the presser 2. Consequently, reduction in space for a working place is executed and soybean milk can be produced under preferable hygienic conditions.

Classifications:

International (IPC 8-9): A23L1/20 (Advanced/Invention);

A23L1/20 (Core/Invention)

International (IPC 1-7): A23L1/20



Family:

Publication number	Publication date	Application number	Application date
JP8214815 A2	19960827	JP19950053556	19950217

Priority:

JP19950053556 19950217

Assignee(s): (std): MARUI KOGYO KK

Inventor(s): (std): II KAZUYOSHI

Title: PAVING OR FACING STONE, ARRAY OF SUCH STONES AND PROCESS FOR MAKING SUCH STONES AND ARRAYS

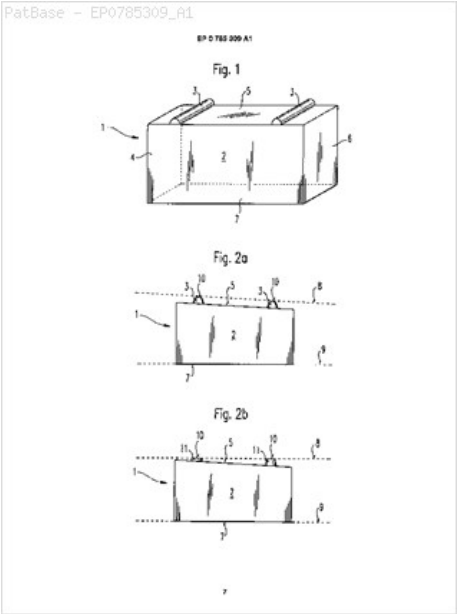
Abstract: Spacers (11) fitted to the stone sides are ground down to a height such that the outermost points (10) of the spacers lie at a level parallel to the plane defined by the opposing stone face (7). The spacers can come in the form of longways ribs on one stone face, or three point projections, and are fitted to one side of the stone only or to two opposing sides. The spacers demarcate the stones and should be ground down as described using an adhesively located stone bond to prevent sideways shifts. Otherwise the stone bond can be obtained by the use of film or netting made of paper, plastics or rubber, the stones being adhered to the nets etc using the netting etc adhesion surfaces to bridge the join between adjoining bond stones. The bond can also be located by an elastic base pressed into place by the stones which are thus held as desired, using naturally rotting bond net, films etc. The nets etc should be removed before the stone bond is established in destination site. The bonds are transported to point-of-use stacked on pallets.

Classifications:

International (IPC 1-7): B24B7/22 B28B11/00 B28B11/08 E01C19/52 E01C5/00 E04C1/00

CPC: B28B11/00 B28B11/08 E01C5/00 E01C5/001 E01C19/524 E01C2201/02 E01C2201/06

European: B28B11/00 B28B11/08 E01C19/52C E01C5/00 E01C5/00B P01C201/02 P01C201/06



Family:

Publication number	Publication date	Application number	Application date
DE19601723 A1	19970724	DE19961001723	19960118
DE19607923 A1	19970911	DE19961007923	19960301
DE29623734 U1	19990610	DE19962023734U	19960301
DE29623735 U1	19990610	DE19962023735U	19960118
EP0785309 A1	19970723	EP19970100623	19970116

Priority:

DE19961001723 19960118 DE19962023735U 19960118 DE19962023734U 19960301
DE19961007923 19960301

Assignee(s): (std): KLINKERWERK HAGEMEISTER GMBH AMP AMP ; KLINKERWERK HAGEMEISTER GMBH AND

Assignee(s): KLINKERWERK HAGEMEISTER GMBH AND CO KG ; KLINKERWERK HAGEMEISTER GMBH AND CO KG 48301 NOTTU ; KLINKERWERK HAGEMEISTER GMBH AND CO KG 48301 NOTTULN DE

Inventor(s): (std): HAGEMEISTER NORBERT

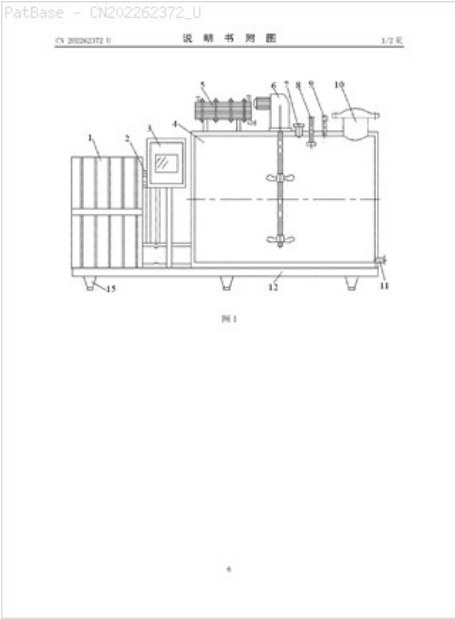
Inventor(s): HAGEMEISTER NORBERT 48301 NOTTULN DE

Designated states: BE DE FR GB NL

Title: Fast refrigeration type milk storage cold storage tank

Abstract: Source: CN202262372U The utility model discloses a fast refrigeration type milk storage cold storage tank, which comprises a base, wherein a tank body, a compressor set and an electric control box are arranged on the base, a stirring device and a material inlet are arranged on the tank body, a thermoswitch which is electrically connected with the electric control box is arranged in the tank body, and a prepositive pre-cooler is also arranged on the tank body and is communicated with the material inlet. The fast refrigeration type milk storage cold storage tank adopts a refrigeration mode of combining the early-period cold water circulation cooling mode and the direct cooling mode, the temperature of milk is fast lowered, the fast temperature reduction fresh keeping of fresh milk is realized, and in addition, the temperature rise of the milk in 24 hours can be ensured not to exceed 2 DEG C. The raw material milk fresh keeping problem is solved, and the positive effect is realized on the livestock culture industry and dairy product processing industry promotion and farmer and herdsman income increase.

Classifications:
International (IPC 8-9): A23C3/04 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN202262372 U	20120606	CN201120407140U	20111024

Priority:
CN201120407140U 20111024

Assignee(s): (std): GANSHU HUAQING LIGHT INDUSTRY MACHINERY CO LTD
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Inventor(s): (std): YAOQING HU
Inventor(s): HU YAOQING