

No. 2517. CHARLES F. JENKINS & ALFRED B. JENKINS, Boston, Mass., U. S., 8th July, 1873, for 5 years: "Steam Packing." (Garniture de machine à vapeur.)

Claim.—1st. A crude, burnt, refractory rubber compound for valves, gaskets, and the like carrying incorporated with it sixty per cent. of refractory mineral matter; 2nd. The said compound less highly vulcanized as a material for the valves of oil pumps.

No. 2518. DAMON WRIGHT, Kingsville, Ont., 8th July, 1873, for 5 years: "A Reefing Machine." (Une machine à riser.)

The object of the invention is to shorten or reef the sail by means of the winding up or reeling of the ropes round revolving shafts.

Claim.—1st. The combination of the shaft B, B, actuated by bevelled pinion D, and bevelled pinion G, shaft E, handle H, pawl I, keeper J, and ropes N, N, N, and eyelets O, O, O, O, and shaft B, B, actuated by bevelled pinion D, and bevelled pinion G, shaft E, handle H, pawl I, keeper J, and ropes P, P, P, P, and eyelets O, O, O, O; 2nd. The combination of a single shaft B, B, revolved by means of gearing or without gearing by a handle merely and ropes N, N, N, N, and eyelets O, O, O, O; 3rd. The combination of any number of shafts B, B, fixed on the boom of a sail in the manner described or in any equivalent manner and revolved by means of gearing or in any other equivalent manner and ropes N, N, N, N, working through eyelets O, O, O, O, fitted with pulleys or without; 4th. The shield or cover K, in combination with shafts B, B, Bi, Bi, pinions D, D, pinions G, G, shafts E, E, handle H, H, pawls I, I, and keepers J, J, working together and with either of the shafts and its gearing separately and with any number of shafts with their gearing working together.

No. 2519. HENNAN BALDWIN, New Haven, Ct., U. S., 8th July, 1873, for 10 years: "A Fodder Cutter." (Un coupe-paille.)

So constructed that the upper or moveable feed roller may be made to move up and down squarely whether the material operated upon be thicker under one end of said roller or not and which may be readily adjusted to cut the feed longer or shorter as desired.

Claim.—1st. The hook or eye bars W, and frame X, in combination with the upper feed roller P, and the frame A, of a fodder cutter; 2nd. The combination of the adjustable spring Y, with the guide frame X, hook or eye bars W, upper feed roller P, and frame A; 3rd. The combination of the detachable gear wheels R, one or both an adjustable journal S, with the gear wheel N, attached to the journal of the knife-shaft J, the gear wheel Q, attached to the journal of the upper feed roller P, and the circular slotted forward end of the lever U, pivoted to the knife shaft J, and carrying the journal of the upper feed roller P.

No. 2520. PETRUS HERVIER, (of Paris, France), Quebec, Que., 8th July, 1873 for 5 years: "A Flat Tile with Treble Lapping Ribs." (Une tuile plate à nervures à triple recouvrement.)

Claim.—Une tuile plate ayant des nervures d, d1, d2, d3, d4, pour lui donner plus de force, et se recouvrant trois fois au côté et avec des canaux d'écoulement e, e1, e2, pour être plus étanche, dans la manière de la fixer au moyen de dents f, f1, et de fil de fer h.

No. 2521. JAMES F. CASS, L'Original, Ont., 8th July, 1873, for 5 years: "Ventilating and Cooling Milk Can." (Boite à lait à ventilateur-réfrigérateur.)

Claim.—1st. The attachment to a milk can cover of two or more tubes for the free ingress and egress of air; 2nd. The attachment to the upper side of a milk can cover, of one or more open tubes having its sides or superficies inclining inward and upward, or in such other manner; 3rd. The attachment to the upper side of a milk can cover of one or more open tubes, having the superficies of its upper end inclining inward and downward, or in such other manner; 4th. The combination and attachment to the underside of a milk can cover of two or more tubes having their lower ends closed and passing downwards into the body of the milk.

No. 2522. JOSEPH N. SMITH, Jersey City, N. J., U. S., 24th July, 1873, for 5 years: "A Brick Press." (Une presse à brique.)

Relates exclusively to machines for re-pressing bricks after they have been moulded and partially dried or seasoned and is designed to produce bricks somewhat similar to those known as the "Philadelphia pressed or front brick."

Claim.—1st. The spring E, arranged and combined with the stirrup G, and gate C, as shown for supporting and lifting it; 2nd. The annular ring J, combined with the bed piece C, and wedge wheel A; 3rd. The adjustable wedges A, A, in combination with the wedge wheel A, and lower die post T; 4th. The flangular portions A1, A11, and A12, of wedge wheel and wedges in combination with spring rollers W, W, for actuating the table K, in combination with the wedge wheel A; 5th. The stud X, attached to the wedge wheel A, combined with the cams Q, and Q1, standard bar R, standard R1, and slotted carrier bar M; 6th. The sectional die

S, composed of central block V, ring P, bars M, and spring C1; 7th. In the die post T, in combination with the wedge wheel A, and sectional die S, Figs. 6 and 7; 8th. The die box S, and U, in combination with the table V, and O; 9th. The arrangement of the bolts P, and nuts P1, P11, for adjusting the height of the surrounding die box U, and 5, in combination with the gate C1 for the purpose of adjusting the opening 6 for the escape of surplus material; 10th. The carrier M, in combination with the dies and annular wedge A1; 11th. The combination with the dies, and the said carrier M, of the auxiliary carrier I; 12th. The oiler O, O1; 13th. The oil reservoir S, with its frame U, and adjustable stoppers L, combined with the oilers O, O1, and dies; 14th. The flexible feed openings V, V, V, combined with the reservoir S, and adjustable stoppers L, L, L; 15th. The adjustable die seat, frame P1, and binder C, in combination with the girt L; 16th. The adjustable bolts P, P1, actuating pinion A, for adjusting the height of the upper die in combination with the girt L, and frame P1; 17th. The springs Z, Z, in combination with the frame and the shoes X, X, V, in combination with the bolts X, X1, and frame P1; 18th. The oiler O, in combination with the wedge wheel A, and ring F, for oiling the same, Fig. 4, sheet IV; 19th. The oiler I, in combination with the hoop B, and wedges H, H, for oiling the said wedges Fig. 4, sheet IV; 20th. The opening B, formed by the bevel as shown on the lower inside portion of the surrounding die U, and 5, Figs. 2, and 5, sheet VI; 21st. The double link P, P, in combination with the carrier M, and dies S, and S1; 22nd. The cam lever N, in combination with the double link P, stud P1, and carrier M; 23rd. The cam lever M, in combination with the stud P1, and carrier I, and stripper M; 24th. The rod C, in combination with the cam lever N; 25th. The stud C1, in combination with the post T, for limiting the descent of the table; 26th. The friction springs M, attached to binder W, W, pressing on and in combination with the carrier bar I, to prevent its premature motion Fig. 1, sheet II.

No. 2523. SAMUEL HORTON, Peabody, Mass., U. S., 24th July, 1873, for 5 years: "Gas Purifier and Regulator." (Purificateur et régulateur de gaz.)

The object of the invention is to relieve gases, more particularly the ordinary illuminating hydrocarbon gas of their impurities and of their vaporised watery and other liquid elements, thereby securing greater brilliancy and steadiness in the flame.

Claim.—1st. The use of sponge or of other absorbent materials confined in a chamber to which the gas can enter and from which it can escape; 2nd. The combination with the above claim, a chamber for the reception of the gas, after its passage through the absorbent material; 3rd. The chamber A, in two parts B, and C, supplementary chamber G, and absorbent material I, all constructed, combined and arranged together as described.

No. 2524. ORVILLE K. WOOD, Westchazy, N. Y., U. S., 24th July, 1873, for 5 years: "Machine for cleaning, separating and grading grains, &c." (Machine à nettoyer, séparer et assortir les grains, &c.)

Claim.—1st. The combination of the smooth and cog-rollers A, A, and C, in combination with plat X, rollers A, A, and C; 2nd. The dowels B, B, in combination with the feeder J, and moveable plate O, O; 3rd. The shoe D, D; 4th. The rod E, the guides G, G, and R, the plates S, S, and T; 5th. The blank board F, F; 6th. The lock pins A, A; 7th. The method of confining the wind blast; 8th. The fluted irons X, X, and Y, Y, and the cog-roller B1; 9th. The fanning mill or separator constructed, combined and arranged as described.

No. 2525. ERNEST J. KNOWLTON, Ann Arbor, Mich., U. S., 24th July, 1873, for 5 years: "A Portable bath." (Une baignoire portative.)

Claim.—1st. A bath of pliable material, pendant from a rigid flat frame around the top edge only; 2nd. A bath of pliable material, pendant from a frame with that portion of the sack for the chest or shoulders touching the floor, or a solid base, and the limb portion of the sack slightly inclined upward; 3rd. A pendant bath of pliable material with less depth of sack near one end than near the other, or in the limb portion thereof than in the chest portion thereof, thereby reducing the cavity and economizing fluid; 4th. A bath of pliable material pendant from a flat frame, with projections B, for resting on or for attaching to chairs or other temporary supports; 5th. The division of the cavity of a pliable bath by a single contraction of the sack or pliable material thereof; 6th. A bath of pliable material pendant from a frame as described, or from any common mechanical structure, the parts of which are relatively so arranged that by simply drawing a cord around the same, or elevating the sack near the middle thereof, two different baths may be formed, varying in average width; 7th. The arrangement of cords and means for their adjustable attachment by which partitions and adjustments may be obtained in a pendant pliable bath; 8th. A pendant pliable bath in an inclined position; 9th. The practical combination of a pendant pliable bath with the common house chair in forming specific adaptations as for a full, a hip, or a sponge bath; 10th. A bath of pliable material pendant from a frame formed or sprung into shape as a hoop; 11th. A spout or apron for the discharge of fluids, projecting directly from, or forming a part of the stiffening support of a pliable bath; 12th. A change in the form of the cavity of a pendant pliable bath, from an adaptation for one specific design to that of another, as from a full bath to a partial bath, or from a foot to a hip bath by temporarily contracting or collapsing a part of the pliable material thereof; 13th. A bath of pliable material, which affords a firm place to stand in the bottom thereof, and is so nearly suspended as to press the pliable parts, closely against the sides of the person bathing, by the weight of that person.