laying soldered strip c; 4th. The loop p, of the strip c, fastened at its overlapping extremity and arranged with reference to the cover B, and body A; 5th. The loop p, tapered as described, in combination with the strip c, arranged with reference to the cover B, and body A; 5th. The combination with the body A, of the right transverse brace d, the said brace arranged nearly or quitte in line with the points of attachment of the ball B, whereby inward strain upon the body A, when suspended by or from the bale is counteracted; 7th. The combination with a tubular transverse brace, arranged in the upper part of the body A, of the inwardly turned strained in the upper part of the body A, of the inwardly turned closed by the soldered cap or disc g; 9th. The combination with the cover or the body, and when the can is filled closed by the soldered cap or disc g; 9th. The combination with the body A, of the pocket E.

On the soldered strip c; 4th. The close to the cover of the body A, of the strip c, fastened at the cover C, attached to the body A, of the pocket E.

No. 2544. ORIN WEBSTER, Compton, Que., 24th July, 1873, for 5 years: "Cow Milker and Strainer." (Appareil pour traire et couler le luit.)

Strainer." (Appareil pour traire et couler le luit.)

Consists of a number of tubes running into a mam pipe to which a strainer is attached. whoreby a number of cows can be milked together and the milk strained at the same time.

Chain. The plue A, strainer B, hinge h, and ring C, as described.

No. 2545. Effort Coapman, Rochester, N. Y.,

o. 2540 HENRI THOMAS, Brooklyn, N. Y., U. S., 24th July, 1873, for 5 years: "A Carving Machine." (Une machine à sculpter.)

Claim.—Ist. The combination of the sliding work and pattern carrying centers and the vertically adjustable at a horizontally swinging tool carrying arms arranged and operating as specified; and The center holder plates D, F, radices bars it, links J, toggle jointed bars K, sliding but L, and crew M, combined and arranged as specified; 3rd. The arms O, P, block Q, bar A, slide W, bars V, and link O, combined and arranged as specified; 4th. The sliding block Q, standard Y, arms O, P, and their actuating devices, and the adjusting screw Z, and crank shaft Z', combined with the work and pattern centers as specified.

WILLIAM N. WHITELEY, Springfield, No. 2541. Ohio, U. S., 24th July, 1873, for 15 years: "A Harvester." (Une moissonneuse.

Harvester.' (Une moissonmense.

(Vaim—lst A rear cut hinsed bar machine, a culting apparatus the outer end of which is supported by a jointed carrying wheel, having its bearing upon the ground in rear of said outling apparatus and the inner end of which is supported by a floxible connection with the main frame, in combination with the drag bar the front end of which may be raised or lowered by means of a lever, while the machine is in motion: 2nd A cylindrical drag bar S, the rear of which is projected through ordices in the upturned ends of the chos T, and its front end extended through the slot S, and controlled by means of itling lever; 3rd The rock shaft 12, one end of which is connected to the front end of the drag bar S, and its opposite end controlled by means of the hand lever 16; 4th. In combination with the rock shaft 12, and the stationary rock 13, and the locking dog 17; 5th The slotted bracket 8, constructed no shown and connected to the frame A, by means of the arms 9; 6th. The slide bar 1, of the rectangular main frame, projected forward and the tongue o, attached thereto in combination with the brace d, as described; 7th. The combination of the rectangular main frame A, and the slotted bracket 8, for the pupose of connecting and holding the front end of the drag bar S; 3th. The shifting lever 22, constructed as described and combined with the stationary cain 24; 9th. In combination with the plate 2, hinged to the outer shoe Z, and provided with a series of stop holes or notches 4 and wheel arm U, and the latch bolt 5; 10th. The grain wheel arm U constructed with the stationary stad X, projecting therefrom and fitted to the socket Y, in the plate 2, to impart great strength to the join the between said arm and plate; 11th. The hollow spinzle P, to form a bearing for the grain wheel, in combination with the bolt V, which passed axially through said sleeve and clamps it firmly to the grain wheel arm; 12th. The chain wheel your of connection with its ratchet; 13th. The chain wheel 3; whereby motion

whereby motion is transmitted to the rake connected with the drive wheel and held in position thereon by means of a noteited flange 30, htting over the arms of sand drive wheel; lith, in combration with the chain wheel secured to the drive wheel, the chain picker hung lower by pon the axie of the said drive wheel, if the chain picker hung lower you have a said start of the said drive wheel, forth. The sheld or guard 28, upon the pitman box 27, to prevent the winding of grass around the wrist pur; loth. The sent spring 38, constructed with the inclined and vertical plates joined in the manner and form described; 17th. The rake cam z, and standard W, constructed of one solid piece from end to end; listh. The standard v, made hollow and fitted to constitute a box or bearing for the driving shaft? Of the rake; 19th. The sam z, and standard w, provided with feet 20, and slots for the boits whereby said cam may be adjusted to properly regulate the strokes of the reel and rake; 23th. The double tree plate 42 provided with adjusting boits and hades whereby the position of said plate may be shifted upon the tongue, as required to equalize the dra't.

No. 2542. JACOB KAISER, York, Ont., 24th July. 1873, for 5 years: "Grain or Corn Grushing Mill." (Moulin à triturer le grain ou le mais.)

Adapted to steam or horse-power and by removing the pulley and attaching a crank handle to the driving shaft it can be worked by

Plaim—1st. The series of inclined prooves b, b, around the inner cdgo of the annular plate B; 2nd. The horizontal metal plate C, constructed and operated as described.

No. 2543. CHARLES B. CLARK, Buffalo, N. Y., U. S., 24th July, 1873: for 5 years: "Sliding Door Hanger." (Ajustage de porte en cou-

Claim.—lat. The bevelled wheel B, in combination with a bevelled track c, and guide f; 2nd. In combination with a rail C, wheel B, and hanger frame A, and lip h, and stop i.

No. 2545. EEGAR COAPMAN, Rochester, N. Y., U. S., 24th July, 1873, for 5 years: "Machine for forming Barrel Hoops." (Machine à former les cercles de futaille.)

Plaim—but. The combination of the pre- ag roller G, and forming wheel A, when arranged to operate in the manner specified; 2nd. The forming wheel A, constructed in two parts which open and close to enlarge or contract the size of the hoop when combined with the stationary disk B; in the right and left screw C, slides L to tscrews; a and slots K. K. when combined at the the forming wheal A, and disk B; the The combination of the dog D, and the depressed part S, of the periphery of the forming wheel whe arranged to operate in the manner specified.

No. 2546. EDWARD SCHIRCK, Rochester, N. Y. U.S., 24th July, 1873, for 5 years: "A Governor Valve." (Une pendule conique.)

Consists in combining in the ordinary casing or shelf of the valve, a cylinder in which the piston plays, said cylinder and niston having coincident parts for the passage of the steam, also in a device for awivefiling the piston rod and a lever for ruising the balls for letting on the steam.

Claim on the Figure.

Claim — let. The combination with the exterior easing A, of the enterior sylinder E, and piston G, when provided with concedent parts c, d; 2nd. In combination with the governor valve having the cylinder B, and piston G, the lever K. when arranged to operate the piston to let an steam in starting the engine as described.

No. 2547. JOHN TAYLOR, Whithy, Ont., 24th July, 1873, for 5 years: "A Pot Strainer." (Un couloir à not.)

flaim —The inclorated strainer, made of the or other material to fit in any not or other vessel for cooking or boiling vegetables, meats or other articles so that upon lifting said strainer out of the pot or botter the water or other liquid is strained or drained ont into the pot or vessel from which the strainer has been lifted.

No. 2548. JOHN TESSEYMAN, & EDMUND I. HOWARD, Dayton, Ohio, U.S., 24th July, 1873, for 15 years: "Valve Gear for Direct-Acting Steam Engines." (Appareil de soupape pour les machines à effet direct.)

Chaim.—1st, A direct acting engine, a reciprocating heap provided with two longitudinal grouves, intersecting at their ends and diverging in their centers, and through suitable mechanism connected with and imparting motion to the steam valve; 2nd In combination with theresiprocating cross head E, provided with the intersecting grouves it, and arm E, and with the valve rod K, and rocker arms L, Li, and hit, the rod U, provided with the adjustable collars I', and springs U: 3rd. The valve gearing as a whole when constructed and arranged to operate as set forth.

o. 2549. John D. Lewis, Toronto, Ont., 24th July, 1873, for 5 years: "A Child's Spring No. 2549. Crib. (Un hamac d'enfant à ressort.)

Claim.—1st The combination of springs S. S. with cords D. and H. eyes, C. C. C. C. cross bar F. and suspension chain G; 2nd. The combination of frames A, and B, with flexible bands x, x, x,

No. 2550. GEORGE H. PEDLAR, Oshawa, Ont., 24th July, 1873, for 5 years: "A Drum Heater and Fuel Saver." (Un poêle sourd épargnecombustible.)

Claim.—ist. A heater consisting of the outer drum A, inner drum or cylinder B, base piece C, tube D, chamber M, annular flus G, bottom E, annular can and top exit flue H, arranged as described; 2nd. In combination with the chamber M, concave base C, and air tube B, arranged as described.

o. 2551. WILLIAM HOWELL, Thorold, Ont., 25th July, 1873, for 5 years: "Self-adapting Rake and Pea Harvester." (Râteau et mois-No. sonneuse à pois combinés.)

Claim.—The combination of the II. hinge P, with the heads d, do of the rake, and draw-bar KI, as specified.