No. 28,614. Evaporator. (Evaporateur.)

Soth W. Lowell, Belfast, N.Y., U.S., 3rd March, 1883 . 5 years.

Soth W. Lowell, Belfast, N.Y., U.S., 3rd March, 1883. 5 years. Claim.—1st. In an evaporator, the combination, with the sections of steam pipes and the case therefor open at one side, of inclined deflecting plates removably connected to the underside of each section and adapted to be inserted and removed through the open side of the case, substantially as set forth 2nd. In an evaporator, the combination, with the casing, of the vertical series of sections of detachably connected horizontal steam-pipes, and an imperforate deflecting plate removably secured to the underside of each section, whereby a section of pipes with its deflecting plate may be removed together at any time, or the plate alone removed as may be desired, substantially as set forth 3rd In an evaporator, the combination, with the vertical series or sections of horizontal steam pipes, of the sleeves k mounted upon the outer pipe of each series, and having on their sides the arms l parallel with the pipes, the transverse strips n resting at their outer ends on the arms l, clips k at the rear ends of the strips n, engaging the inner pipe of each section, and the deflecting plate supported on said strips, substantially as set forth.

No. 28,615. Machine for Engraving and Carving Buttons. (Machine a graver et découper les boutons.)

Cæsar R. Bannihr, West Cheshire, Conn., U.S., 3rd March, 1888; 5

Crear R. Bannhr, West Cheshire, Conn., U.S., 3rd March, 1838; 5 years.

Claim.—Ist. The combination of the table D with the indexing device around the column or shaft A, for the purpose of bringing the table in any desired relation with any of the spindles a, at, ai, as herein shown and described. 2nd. The combination of the table or arm D having an indexing device around the shaft A, the box E having within it the index P, for the purpose of bringing any desired surface of the article in the chick c under the spindles a, ai, ai, as and for the purpose herein shown and described. 3rd. The combination of the table or arm D having an indexing device around the shaft A, box E having within it a horizontal rotary index F, and the vertical circular index G, as herein shown and described and for the purpose specified. 4th. The combination of the table or arm D having an indexing device around the shaft A, and box E having within it the index F, in a horizontal relation to the vertical index G, in relation to the spindles a, ai, ai), with cutters or grinders bi, bii, biii, for the purpose of cutting or grinding designs upon articles, as herein fully shown and described. 5th. The combination, in an indexing device, of the pins j, springs; and h, box E and cylinder F provided with holes k, substantially as and for the purposes et forth 6th. The combination of the cam or eccentric groove S with a slide P, lever O, sleeve N and spring h, pitman Q and spring h; for the purpose of changing the index while the arm D is moved from one spindle to another, all for the purpose herein set forth and described.

No. 28.616. Machine for Coring, Paring and

No. 28.616. Machine for Coring, Paring and Quartering Apples. (Machine à vider, peler et trancher les pommes.)

William E. Blakely, Brighton, Ont., 3rd March, 1898, 5 years.

William E Blakels, Brighton, Ont., 3rd March, 1838, 5 years.

Claim.—ist. A tube T fastened to e end of a shaft, substantially as and for the purpose set forth. 2nd. A plunger Y, P, substantially as and for the purpose set forth. 3rd. A lover arm J, substantially as and for the purpose set forth. 4th. A rack I, substantially as and for the purpose set forth. 4th. A rack I, substantially as and for the purpose set forth. 6th. A double-edged knife O, moving forward and backward through the apple lengthways of the core, substantially as and for the purpose set forth. 6th. A brake Z, substantially as and for the purpose set forth. 7th. The combination of a set of cogs on the wheel E, and a pinion G, substantially as and for the purpose set forth. 8th. The combination of a loose pinion F, with dog attached, and a ratched wheel i, substantially as and for the purpose set forth. 9th. The combination of a plate r, with spring rattached, a slide W and a slide Y, with plate N attached, substantially as and for the purpose set forth. 10th. A part cog-wheel B, substantially as and for the purpose set forth. 11th. A knife-carrier M, moving forward and backward longthways of the apple, substantially as and for the purpose set forth.

12th. A crank R, substantially as and for the purpose set forth.

No. 28,617. Grain Binder. (Lieuse à grain.)

The Sarma Agricultural Implement Manufacturing Company (assignee of Samuel D. Maddin), Sarma, Ont., 3rd March, 1838, 5 years.

years.

Claim—1st. The frame of the binder supported upon two wheels of a sleeve carried by the axle and bars F, D, the former extended to constitute the overhanging arm supporting the knotting devices, and the strip E consisting of the horizontal and vertical portions, all substantially as set forth. 2nd. The combination of the compressor and discharge arms, needle and knotter devices with a wheel N, and connections with the said wheel, whereby the batter is made the means of operating all the parts, substantially as set forth. 3rd. The combination, with the knotter devices, compressor and discharge arms and needle, of the wheel N having a crank pin connected by a link with the needle, and provided with racks 23, 26, the mutilated crank pinion Q connected with the knotting devices, and the mutilated pinion 5 connected with the compressor arms, substantially as set forth. 4th. The combination, with a wheel N, of a continuously rotating wheel S, and connections between said wheels operated by the grain being bound, whereby the wheel N is thrown into and out of gear with the wheel S, substantially as described. 5th. The combination, with a continuously rotated wheel S, of a wheel N and a clutch interposed between said wheels operated by the grain being bundled, substantially as described. 6th. The combination, with a continuously rotated wheel S, of a wheel N and a clutch interposed between said wheels operated by the grain being bundled, substantially as described. 6th. The combination, with a continuously rotated wheel

Sand a wheel N, of a foot V operated by the grain being bundled, and connections between saul foot and wheel S, whereby the wheel N is intermittently rotated, substantially as described. 7th The Group and the state of the stat