No. 18,803. Construction of Butter or other similar Dishes. (Fabrication des Beurriers ou autres Ustensiles semblables.)

Joseph D. Lucas, Toronto, Ont., 6th March, 1884; 5 years.

Claim.—Ist. In combination with a dish of any suitable design, a divided ring B designed to fit the edge of the dish and provided with claws b, arranged to grasp the edge of the dish when the ends of the divided ring are clamped together, as specified. 2nd. A divided ring B having the knife-holder E, handle C and claws b attached to it, in combination with lugs c formed on the ends of the ring and clamped together, substantially as and for the purpose specified.

No. 18,804. Air Compressing Machinery.

(Appareil pour Comprimer l'Air.)

George R. Cullingworth, New York, N. Y., U. S., 6th March, 1884; 5

George R. Cullingworth, New York, N. Y., U. S., 6th March, 1884; 5 years.

Claim.—1st. The combination, with the cylinder of a double-acting air compressor, of pipes or conduits connecting the ends thereof, and a pressure regulator capable of operation by an excess of air pressure for the purpose set forth. 2nd. The combination, with the cylinder of a double-acting air compressor provided with pipes or conduits for connecting its ends, and a pressure regulator capable of operation by an excess of air pressure for controlling communication between the ends of the purpose set forth. 2nd. The combination, with the cylinder of a double-acting air compressor provided with pipes or conduits, of an operating engine provided with the control has a pipes or conduits, of an operating engine provided with the cylinder of a conductive the control of the cylinder of the cylinder of the cylinder of a double-acting air commerciation, substantially as described and for the purpose set forth.

State of the cylinder of a double-acting air commerciation, substantially as described and for the purpose set forth.

State of the cylinder of a pressure regulator capable of operation by an excess of air pressure to place the ends of operation by an excess of air pressure to place the ends of the cylinder in communication through said pipes or conduits and a valve which is serviced and for the purpose set forth. 4th. The cylinder in communication through said pipes or conduits and a valve which is serviced and for the purpose set forth. 4th. The combination, with the cylinder of a double-acting air compressor provided with one communication through said pipes or conduits, of an operation by an excess of air pressure to place the ends of the cylinder in communication through said pipes or conduits, of an operation by an excess of air pressure to place the ends of the cylinder of a double-acting air compressor provided with one communication with a communi

No. 18,805. Combined Butter Dish Package. (Beurrier et Boîte à Beurre Combinés.)

Alfred Edwards, New Haven, Ct., U.S., 6th March, 1884; 5 years.

Alfred Edwards, New Haven, Ct., U.S., 6th March, 1884; 5 years.

Claim.—Ist. As an article of manufacture, a butter-package consisting of two parts or halves adapted to be fitted together with their open ends, and having a circular groove or channel adapted to receive a strip of paper or equivalent material, for connecting or uniting the parts into one body or package, substantially as and for the purpose shown and set forth. 2nd. A package for butter comprising the two ornamental parts or sections A and A1, each adapted to contain a given quantity of butter, having a central groove or channel formed by the flanges c, ct, and united by a strip or band C cemented into the said channel flush with the body of the package, as set forth. 3rd. A package for butter comprising the two ornamental parts or sections A and A1, each adapted to contain a given quantity of butter, having a central groove or channel formed by the flanges c, ct,

and united by a strip or band C cemented into the said channel flush with the body of the package, said sections A and A of the complete package having one or more openings b provided with removable stoppers B, substantially as and for the purpose shown and described.

No. 18,806. Gas Engine. (Machine à Gaz.)

Cyrus W. Baldwin, Chicago, Ill., U. S., 6th March, 1884; 5 years.

Claim.—1st. In a gas engine, the combination of a working cylinder, two pistons and appliances, substantially as described, for operating them independently, and air and gas ports and channels, substantially as set forth, whereby the charge of explosive gases is one pressed in front of the working piston and then transferred to the rear thereof and exploded, substantially as specified. 2nd. The combination of the cylinder, its pistons B, B², air and gas ports and channels and appliances, substantially as described, whereby and the gases thereby forced from the front to the rear of the piston B₂, and the pistons then separated while both travelling forward to receive between them a second charge of gases, substantially as described, whereby and valves and operating devices, substantially as described, whereby and valves and operating devices, substantially as described, whereby and valves and operating devices, substantially as described, whereby and help the piston of the cylinder pistons B, B2 and ports, passages and valves and operating devices, substantially as described, whereby and help the piston B2 to force the charge to the opposite side of the piston B2 to force the charge to the opposite side of the piston B, substantially as set forth. 4th. The combination, B, rod a, connecting-rod di and supplemental crank C2, of the piston B2, rods di connecting-rod di and supplemental crank C2, substantially as given by pistons B, B connected together, and intermediate and independention of the cylinder piston B2, substantially as set forth. 5th. The combination of the cylinder, its ports and valves, and piston B2 and passages and valves, substantially as set forth, whereby a charge of ports arranged at opposite portions of the working cylinder, and piston B2 and passages and prior to the admission of a new obstantially as set forth. 8th. The combination of the cylinder, connected piston B2, and passages and prior to the admission of a new obstanti

No. 18,807. Horse Shoe. (Fer à Cheval.)

John W. Fierheller, Newmarket, Ont., 6th March, 1884; 5 years. Claim.—An improved horse-shoe in which the ends forming the heel are bifurcated, so as to make that portion of the shoe elastic substantially as and for the purpose specified.

No. 18,808. Mauufacture of Buttons.

Charles E. Bailey and William R. Talbot, Providence. R.I., U.S., 6th March, 1884; 5 years.

Claim...—The herein described method of constructing buttons, consisting in forcing the prongs of the shank B up through said material which is to compose the button-head, and then forming the dead and clinching the prongs of the shank into the top surface thereof at one and the same operation, substantially as and for the purpose specified.

No. 18,809. Edger. (Machine à Scier les Flaches.)

James A. Robb, San Frannisco, Cal., U. S., 6th March, 1884; 5 years. Claim.—1st. In a gang edger having a series of saws mounted upon sired distance apart consisting of a series of setting levers fitted in combination with a notched scale bar or rack into which herein catches upon the lever arms may fall, substantially as herein described. 2nd. In a gang edger, means for raising or lowering supper feed rolls consisting of vertically sliding journal boxes at and end of the rolls, eccentric or cranked disks mounted upon shafts and end of the rolls, eccentric or cranked disks mounted upon shafts rack and pinion, and a means for rotating the disk or pinion shafts rack and pinion, and a means for rotating the disk or pinion as for raising and depressing the upper feed rolls consisting of eccentric or raising and end of the feel of the consisting of eccentric or raising and depressing the upper feed rolls consisting of eccentric or raising and depressing the upper feed rolls consisting of eccentric or raising and depressing the upper feed rolls consisting of eccentric or raising and depressing the upper feed rolls consisting shaft, substantially as herein described. 4th. In a gang edger and in combiles with the means for raising mand depressing the upper feed rolls, shaft and the belt lates of the disk shafts having gaars upon one end, which are both as with the means for raising and depressing the upper feed rolls, shaft yau upon the pinion shaft U, the feet of the shaft. In a gang edger and in combiles at the handle bar or role, substantially as herein described. James A. Robb, San Frannisco, Cal., U. S., 6th March, 1884; 5 years.