No. 3218. François Genin, Edmond Beauvais, Joseph E. Robidoux, John A. Perkins & RAYMOND PREFONTAINE, Montreal, Que., 18th March, 1874, for 5 years: "Improvements on Paper Machinery and Chemical Compounds used in treating substances to be converted into paper stock." (Perfectionnements aux appareils et compositions chimiques employés dans le traitement des substances à convertir en pâte à papier.)

Claim—18t. The trough c, and the roller d, in combination with the spout t, by an inclining grating v; 2nd The trough c, and crushing roller d, in combination with the rollers h: 3rd. The combination of the trough c, and crushing roller d, with rollers h, and granding disc p, 4th. The combination of the pipe s, with cylinder l and apout t, arranged to that the centrifugal force created by the disc p, will cause the unterini to accord to the trough t, 5th. A novel combination of straw with lime water and soda; 6th. The pulp manufactured as described in combination with chloride of lime and sulphuric acid as described.

No. 3219. DAVID ALKEAN, Montreal, Que., 18th March, 1874, for 5 years: "Improvements on Machinery for manufacturing Peat." (Perfectionnements aux appareils à fabriquer la tourbe.)

("lann.—lst. The combination of the conveyer d, stick catcher c, and drain n, constructed, arranged and operating as described; 2nd. The combination of the net p, constructed, arranged and operating as described, with the travelling pressing surfaces i, constructed as described; 3rd. The novel combination of the berg q, corringes y, corsing 61, and net p, all working together as described; 4th. The vetwork p, arrange i as described to form a bag closing at any and and mention of the other as the etwer work always as at one end and opening at the other, as the net work advances.

No. 3220. WILLIAM PETCH, Brantford, Ont., 18th March, 1874, for 5 years: "Machine for Bolting and Purifying Flour and Middlings' (Machine à bluter et purifier la farine et les gruaux.)

Claim.—lst. Forming the reel of separate and distinct frames or sieves and connecting them as described; 2nd The heads D, and E, itstened to shalt B, with stays C, also reds I, and springs K, to work in ratchet F.

No. 3221. James C. Wilson, Montreal, Que., 18th March, 1874, for 5 years: "Improvements on Paper Bag Cutters." (Perfectionnements aux découpoirs pour les sacs de papier.)

Claim.—1st. The cutter J, having two chiseledges cutting angularly and adjustable by a frame D; 2nd. The combination of the cutters J, adjustable frames D D, and bar A, as set forth.

No. 3222. Rémi Paradis, St. Hyacinthe, Que. 18th March, 1874, for 5 years: "Improvements on Shoe Sole Burnishers." (Perfectionnements aux brunissoirs de cordonneric.)

Réclame.—10. La douille à couteaux N, avec ses couteaux P; 20 La combunais n de la targette E, avec la pédale G. l'équerre I la forrelle J; 20 Dans la combinaison de la douille à couteaux N, avec les nutres parties de la machine.

No. 3:23. NICOLAUS A. OTTO, Deutz, Germ., 18th March, 1874, for 15 years: "Improvements on Calcric Engines." (Perfectionnements aux (Perfectionnements aux machines caloriques.)

Machines caloriques.)

(laim—1st. A caloric engine wherein atmospheric pressure is rendered available for producing motive power by drawing hosted guess of garcous products of combustions of high temperature but only at atmosphere pressure quickly into the engine cylinder and then cooling the fluid therein wherely the pressure on one side of the piston is reduced below that of the atmosphere, thus producing a corresponding excess of atmospheric pressure on the other sine of the piston; 2nd In emberce engines operating as described in the first claim, admitting the heated gases to the cylinder during only a portion of the forward stroke and dilating them by the further motion of the forward stroke and dilating them by the further motion of the nation whereby an increased gain of motive power is obtained; 3rd. In caloric engines, the jacketted cylinder a, open to the atmosphere at one end with slide a, for cutting off the supply of heated gases, and valve i, for discharging the cooled gases operating in combination with the piston k, connected to the erank shaft e, with fly wheel l in such a manner that the piston performs its outward stroke quicker than its return stroke.

No. 3224. URSULA L. WEBSTER, (wife of Daniel B. Webster,) New Haven, Ct., U. S., 18th March, 1874, for 5 years; "Improvements on Adjustable Patterns for Cutting Garments." (Perfectionnements aux patrons articulés pour le taillage des hardes.)

Claim.—Ist. The ru'e a, in combination with the sliding rule c, main rule d, and shoulder and neck rule f; 2nd. The rules a and c, in combination with the rule m and l; 3rd. The rules a and c, in combination with the rule m and l; 3rd. The rules a and c in combination with the arm rule n. r n, q, with rule p; 4th. The rule t, in combination with the rules a and c; 6th. The rules a, and c, in combination with dart i; 7th. The adjustable pattern formed by rules f, a, t, p, and n; 8th. The adjustable pattern formed by rules f, a, t, p, and q; 9th. The combination of the rules a, c, c, q, and u, 11th. The combination of the rules a, c, c, f, a, f, and g; 12th. The adjustable pattern formed by the rules a, c, d, n, f, and g; 12th. The adjustable pattern formed by the rules a, l, d, e, q, n, n, f, 13th. The adjustable pattern formed by the rules a, l, d, e, q, p, 1, and i', 14th. The pattern consisting of adjustable rules a, b, f, a, d.

No. 3225. James H. Beardsley, Brooklyn, N.Y., U.S., 19th March, 1874, for 5 years: "Apparatus for Protecting the Lyes and Respiratory Organs of persons exposed to extreme Heat, Smoke, &c." (Appareil pour protéger les yeux et les organes respiratoires des personnes exposées à une chaleur intense, la fumée, etc.)

Claim.—Ist The duplex shell provided with transparent eye pieces, and constructed with edges capable of litting snucly about the eyes of the wearer to prevent the passage of noxious matters thereto, is combination with the projecting and air filtering curain, arranged to cover the lower portion of the face; and The combination of the spring with the duplex shell; 3rd. The shelf constructed with the grooved socks for the re-epton of the eye pieces; 4th. The combination of the sponge or porous pad with the curtain attached to the duplex shell; 5th. The combination of the leases or magnifying glasses with the duplex shell farnished with the depending curtain, the said leases or glasses constituting the eye pieces of the shell; 5th. The combination of the coloured eye pieces with the duplex shell farnished with pieces with the duplex shell furnished with the depending curtain.

No. 3226. Franklin Dodge, Whiteside, Ill., U.S., 20th March, 1874, for 5 years: "Manufacture of l'eat." (Fabrication de la tourbe.)

Claim—lst The process of treatment described, the said process consisting in grinding and kneading the peat into a pasto in the peculiar manner described, next mixing the ground peat with water until the peat is taken up and held in solution, these pumping the mixture away to drying ground, allowing the peat to settle and condense, dawing off the water and permitting the peat to harden as described; and finally storing the peat in enring cribs to undergothe sweature operation; 2nd. The revolving cutters P. in combination with the praduated perforated diaphragms E. Et. Ex. Ex; 4th. The beref gearing C, or their equivalent placed within the chamber in which the water is admitted to the ground peat, 5th. The hosper A, in combination with the series of grinding chambers A; the revolving shaft B, the revolving knives F, bars F; the revolving grin lers D, the perforated diaphragms E, Et. Ex Ex, each gearing C. C, the feed water pipe H. reservoir I, pump J, and discharge pipe J: 7th. Curing the condensed peat taken from the drying ground by placing it in the peculiarly constructed cribs K.

No. 3227. John Luthven, Lévis, Que., 23rd March, 1874, for 5 years: "Gas Machine." (Machine à gaz.)

Claim.—Ist. The arrangement of the air tank A, and combined oil and vapour tank B, connected by the pipe C, in combination with a pump or bellows K, for injecting air as set forth; 2nd. the perforated bottom M, and the arrangement of the pipe C discharging air centrally thereunder downward in the tank B, for evaporating the oil as set forth.

No. 3228. WILLIAM SHARP, Portland, Me., U.S., 27th March, 1874, for 15 years: "Improvements in Preparing and Preserving Fish" (Perfectionnements dans la conservation du noisson.)

Claim.—Ist. The process of preparing and preserving fish as an article of food, by smoking and subsequently canning and boiling them in the caus as described, 2nd. The improved article of manufacture obtained, by first smoking the fish and subsequenty canning and boiling them in the caus as set forth.