No. 8489. Improvements in Washing Machines. (Perfectionnements dans les machines a laver,)

Truman Austin, Virginia, Nev., U.S., 4th March, 1878, for 5 years.

Claim.—1st. The rotating cylinder A so mounted as to be supplied with steam or water, and having the fixed backets. D. together with an interior series of supporting rollers for clothes; 2nd. The bars or rollers—formed in two parts, and having the conical ends I; fitting into conical adjusting sockets at each and for the purpose of holding the parts together. 3rd. The conically ended two-part rollers D, having the receiving conical sockets at either end, and the operating series G for the purpose of allowing the parts to separate or to close and secure them after the clothes are introduced.

No. 8490. Improvement in Stoy. " Perfect Source ment dans tes poéles.)

Edward Gurney and Charles Gurney, Hamilton, Ont., 4th March, 1878 for 5 years.

Claim .- In combination with base burning, self-feeding, cooking, parlour, wood and coal stoves or ranges, of a ventilating ring B provided with openings de, or ventilating tops and bottoms of stoves constructed in the same innuner, for the purpose of prevening the ground, nickled or otherwise polished edges of the same from becoming tarnished.

No. 8491. Improvements on Tools for Metal Working Lathes and Planers. (Perfectionnements aux outils de tours et raboteuses à métaux.)

John Du Bois and Edwin F. Beugler, Williamsport, Pa., U.S., 4th March, 1878, for 5 years.

Claim.—1st. The combination of a stock or body, and a cutting blade or bit secured in or across the end of the same in an oblique and horizontal position; 2nd. A cutting blade B mounted obliquely and adjustably in the end of the stock or body A; 3rd. In combination with the stock A, the curved of the stock or body. A: 3rd. In combination with the stock A, the curved blade secured obliquely therein. Ith. A thin steel blade or cutter, and a stock or body adapted to hold the same and give it a årm support to its extreme cutting edgo; 5th. The combination of a thin cutting blade, and a stock or holder, the blade being secured horizontally and adjustably to the stock, and sustained at its extreme cutting end thereby; 6th. The combination of a horizontal cutting blade, ender curved or straight, with two clamping blocks or plates, one sustaining the blade on the under side to its extreme end, and the other bearing on top of the blade and extending nearly to its end; 7th. The combination of a stock or holder, and a blade or cutter secured obliquely in and across the end of the same, the outer faces of the two standing flush with each other, in orde, that the tool may be advanced across the end faces of shafting. Sec., 2th. The combination of a cutting blade and a stock or holder, constructed with a forward nose or point to so tain the forward end of the same, the nose and blade having parallel vertical sides; 9th, The combination of the stock or holder. A having an oblique head or socket, the blade B seated therein and the series or equivalent finds that the story or equivalent finds the same. cal sides; 9th, The combination of the stock or holder A having an oblique head or socket, the binde B scated therein and the screw or equivalent fasten ing device, 10th. The combination of the stock A, the oblique blade B, blocks D b and screw C.

No. 8492. Improvements on Mining Machines. (Perfection nements aux machines a miner.)

Francis M. Lechner and Joseph A. Jeffrey, Columbus, Ohio, U.S., 4th March, 1878, for 5 years.

March, 1878, for 5 years.

Claim.—1st. The combination of the straight or chisel edged cutters c₁, with the notched cutters c₁, 2nd. The combination of a stationary screw and a detachable nurmounted in the sliding cutter carrier. 3rd. The combination with the screw K of a divided ant OD, its conical support, and the inclosing shell L; 4th. The shaft r and rope r in combination with the main frame and sliding cutter frame for withdrawing the cutter; 5th. The combination with the siding frame whot carries the cutter of a serie and not for advancing the cutter, and a shaft and rope for withdrawing the same, with the mechanism which drives the cutter, 6th. A cutter frame, made hollow to conduct air from the driving engine and deliver it near the cutter. 7th. In scrapers operated in vertical planes to remove the cutting from the low to conduct air from the driving engine, and deliver it near the cutter, 7th. In scrapers operated in vertical planes to remove the cutting from the kerf or drift, 8th. A w. in adjustable upon the driving shaft for actuating the teeding devices; 9th. The shaft F in E adjustable for tightening the driving chain F; 10th. The overhanging scraper-chain supports, 11th. The combination with the carriers, of the driving shaft E adjustably supported between said carriers; 12th. The cutter bar provided with the projecting lugs mi having their engaging faces frined in arcs of circles, 13th. The driving chain provided with friction ridlers mi adapted to engage with the luggest. lugs mi.

Improvements on Washing Ma-No. 8493. chines. (Perfectionnements aux machines a

Joseph O. Beauperland, Fall River, Mass., U.S., 4th March, 1878, for Syears.

Claim.—1st. The combination with the case B of the rotary cylinder A, having the end brushes, the longitudinal spaced brushes, the prismatic rollers h harranged between them and the buckets t. 2nd—In a rotary washing machine, the cylinder A having the spaced strips provided with the tuffs f and the prismatic rollers h hetween and strips; 3rd. The washing machine cylinder A having the buckets t, the end brushes, the longitudinal spaced brushes and the prismatic rollers between the latter. 4th The combination with the vessel B having the U-bearings, and the cylinder A having the gudgeons i journalled in said bearings, and one of them provided with gear-wheel J of the independently journalled shaft I having a pinion mt engag-ing the said gear wheel.

No. 8494. Improvements on Catches for Bags. (Perfectionnements aux attache-sacs.)

Richard Hemsley and Dickson Anderson, Montreal, Que. 4th March. 1878 for 5 years.

Claim.—ist. The pawl D in combination with and pivoted to the projections B of the plate A, plate A and string or band, A c., Γ , the pawl D having a cam form from the point 1 to point 2 and form of equal radius from

the point 2 to the point 3, in combination with the plate A having properties B and with string, &c., F; 3rd. The combination of the plate A having projections G with pawl F having surfaces from the points I to 2 and from the points 2 to 3 constructed as shown; 4th. The plate A having hole L is combination with the pawl D having surface constructed as shown and we string, &c., F, 5th. The plate A having projections B, said projections having holes E, in combination with pawl D having surfaces as described to the The plate A in combination with pawl D having surfaces and combination. The plate A in combination with pawl D having surface constituted as shown, and with the string, &c., F.

No. 8495. Improvements on Car Wheels, (Perfectionnements aux ranes des wagons)

William Wilmington, Toledo, Ohio, U.S., 4th March, 1878 (Extension of Patent No. 2212), for 5 years.

No. 8496. Improvements on Coal Oil Stoves. (Perfectionnements aux poêles à pétrole.)

James Baniff, Ottawa, Ont. (Assignes of John A. Frey, Jersey, N.J. U.S., 6th March, 1878 (Extension of Patent No. 2308), for 5 years.

No. 8497. Improvements on Coal Oil Stoves. (Perfectionnements aux poêles a petrole.)

James Bannf, Ottawa, Ont. (Assignee of John A. Prey, Jersey, N.J. U.S., 7th March, 1878 (Extension of Patent No. 2366), for 5 years.

No. 8498. Improvements on Potato-Diggers. (Perfectionnements aur ar patates.)

Peter M. Bawtinhimer, Woodstock, Ont., 8th March, 1878 (extension of Patent No. 2182), for 5 years.

No. 8499. Improvement in Fog Alarms.

(Perfectionments dans les sequans de bre me,

Noah Woodward, (Assignee of Robert Booth and Lewis Smith) Sher brooke, Que, 8th March, 1878, for 5 years.

brooke, Que, 8th March, 1878, for 5 years.

Claim.—1st. The controlling mechanism G consisting of the spanned lever c, disc f. with stop piece g h and weighted lever K, 2nd. The combination of the steam cylinder A and its piston B, with the air cylinder E and its piston D, 3rd. In combination with the controlling mechanism 6, 2 valve F, stop cock, side valve, or equivalent devices, and cylinder A. 2. 1. 4th. In combination with the cylinder A and E, valve F and controlling mechanism G, the proofed p and pins m and n, 5th. In combination with the cylinder A, valve F and controlling mechanism G, the quarter for the proofed p and pins m and n, 5th. In combination with the cylinder A, valve F and controlling mechanism G, the quarter for the proofed p and pin n and disc y; 6th. In combination with the valve F, controlling mechanism G and cylinder A or E, the stop cock M, 7th. In combination of the cylinder A and E, with their pistons. Sc., the controlling mechanism G, valves F and P, stop cocks M and N, pivoted lever p, pin n and pin m or disc y, with a horn and reed or with a whistle.

No. 8500. Commontal for Programing of the spanned and stop of the controlling mechanism.

No. 8500. Compound for Preserving and Renovating Cut Stone. (Compose pour préserver et rafraichir la poers de taille.)

Alexander McLean, Benjamin Morton and John W. G. Whitney, Toronto Ont., 8th March, 1878, for 5 years.

Claim.—A preservative and renovative compound wash or pant, composed of Portland Coment, native cement, grey lime and plaster of Parsmaxed, or other equivalent materials in a liquid composed of was resignated acid or spirits of saits and hydrochloric acid, or their equivalence.

8501. Machine for Washing Clothes. (Machine à laver le ling .)

Edward S. Redfern and Charles Burns, Meaford, Out , 8th Marca 177

for 5 years. Claim.—1st. A tube C having a flaring flange C₁ and a plunger D, words by a rod E in the usual way in combination with a closed cylinder. 2nd the perforated detachable monthpiece, having a hinged vaice if any most most the end of the tube C provided with a plunger D, in combination w²2 the cheesel antimeter 2 h wither small R. the closed cylinder A having spout B.

No. 8502. on Shutters. Improvement (Perfectionnement des persiennes.)

Asher Bijur, New York, U.S., 8th March, 1878, for 5 years.

Asher Bijur, New York. U.S., 8th March, 1878, for 5 years.

Comm.—1st. The combination of the slats with a slat rod and adjusting mechanism arranged at one end of the slats, at the inside of the slatter frame, so as to be entirely out of sight. 2nd. The combination of a share frame having a recessed sitle, with slats turning in a perforated supporting frame and with adjusting mechanism applied to the pivots at one end of the slats and fitted into the recess of the sitle, so as to be enclosed thereby, 3d. The combination of a slutter frame having recessed stile, with slats a slat carrying frame and a balanced adjusting mechanism, applied to be pivots at one side of the slats, the adjusting and balancing mechanism begined into the recessed sitle and enclosed by the same and the slat carrying frame, 4th. The combination of slats B, mortised frame C and believed slat rod D, pivoted to fixed and recessed crank arms of the stat pass outside of perforated detachable frame C.

No. 2.7.0.2. Improve the contract of the slat pass outside of perforated detachable frame C.

No. 8503. Improvements on a Folding Chair. (Perfectionnements a un pliant.)

Edwin S. Pratt. Buffalo, N.Y., U.S., 8th March, 1878, for 5 years.

Edwin S. Pratt. Buffalo, N.Y., U.S., 8th March, 1878, for 5 years. Claim—1st. The double slotted arm D; 2nd. In folding chairs, a set composed of a series of slats secured transversely, said seat being pivoted to the chair frame and adapted to move rearward and downward we a guide, when the chair is folded together, 3rd. The combination with the standards A and legs B, pivoted together by the bolts b, of the bolt b hellow cylinder C, slats F, transverse piece f and the round a_4 , 4th. The folding chair consisting essentially of the connected standards A, legs B, doubt slotted arms D, secured to the legs B by the bolt b_6 and to the standard 1 by the rosette bolts d, hollow round C with the slats F, arranged b resuppon the round a_5 and the chair back E.