No. 5216. George W. Copeland, Malden, Mass., U. S. (Assignee of F. D. Ballon), 5th October, 1875, for 5 years: "Boot and Shoe Wax Thread Sewing Mechanism." (Machine à coudre les chaussures au fil ciré.)

Claim.—The shaping of the table A, which supports the work at the place where the feeding and sewing mechanism operates as a mere elevated projecting exterior and interior work support B, not continued beyond the exterior wall a, of the throat in which the stitching and feeding mechanism operates sufficiently to impede the turning of a shoce horizontally, in stitching round the outside of the upper, an elevated work-support B, located at or near the edge of the work plate A, and forming a thin wall a, to the needle-throat higher than the depth of the channel in the sole with or without the shield a and of such size, in plan, that the work of the machine it is happed to the depth of the channel by the sides of the channel, the presser foot to, when constructed and arranged, and used as a guard or giardismal gauge, the combination of the presser-foot G, with the elevated projecting work-support B, when arranged to guard and guide the work as the sewing and feeding proceeds, the combination of a sewing and feeding mechanism working in a threat surrounded by an elevated projecting work-support B, a short and narrow exterior work-support forming the exterior wall a, of the needle-threat extended beyond the threat merely sufficiently to connect the exterior work-upport with the fixed parts of the machine, and so shaped as not to interfere with the turning of the shoe horizontally or including the same in stiching around and through the outer margin of the effective of the machine the same in stiching around and through the outer margin of the reservant H, and foot G, and E, and and har needle F, and needle-ber, and feeding device in connection with an elevated projecting-throat B, and worksupport L arming and inclaiming of the shoe horizontally or including the affecting device in connection with an elevated projecting-throat B, and worksupport with an elevated projecting-throat B, and worksupport and inclaiming of the shoe foreity and without interference with the sewing-mechanism or frame work of the machine

No. 5247. ROBERT ALDRED, Glencoe, Ont., 5th October, 1875, for 5 years: "Rail-Road Track Lifting Machine." (Machine & lever les voies de railroutes.)

Claim .- A frame constructed of wrought iron in combination with two screws B, B, supported by two-prvoted auts C, C.

No. 5248. Samuel R. Smith, and Joseph Simpson, Manchester, Eng., 5th October, 1875, for 5 years. "Improvements on Production and Manufacture of Iron, Steel, and other Metals, and on the Apparatus and Compounds employed therein." (Perfectionnements dans la production et la fabrication du fer, de l'acier et autres métaux, et dans les appareils et les composés pour cet objet.)

Claim.—1st. The production purification and refining of iron, steel, and other metals, 2nd. The process called our Great Force process; find. The apparatus to carry out our Great Force process; Ath. The process called our Liquid process; oth. The importants to carry out our Liquid process; 6th. The importants to carry out our Liquid process; 6th. The importants to carry out our Liquid process; 6th. The process called our Retort Generating process; 7th. The apparatus to carry out our retort generating process; 8th. The refining of iron and other metals, and the manufacture of steel in our trumon halde. 9th. The apparatus called our Truminon Ladle, 10th. The refining of iron and other metals and the manufacture of steel in our metal receiver. 12th. The paper process is the steel in our metal receiver, 12th. The paper process by means of our vacuum or exhaust furnace of iron and other ores by means of our vacuum or exhaust furnace as well as the remarkacture of steel by means of our vacuum or exhaust furnace when combined with the chamber and descending pippes; 16th. The furnace called our vacuum or exhaust furnace when used not only for the smelting and melting of iron and other ores, but also for the purification thereof as well as for the manufacture of steel. 17th. The combination of our great force process either with our trumnon-ladle or our metal receiver or our vacuum or exhaust-furnace; 18th. The combination of our figural process (with or witnout the retort-oven used as a heater) either with our trumnon-ladle or our metal-receiver or our vacuum or exhaust-furnace; 29th. The apparatus called our retort puddling-furnace, 2.5th. The apparatus called our retort puddling-furnace, 2.8th. The refractory-materials decomposed, 23rd. The several modes of using gaseous compounds for heating-purposes.

No. 5249. François X. Bellefeuille et Achille Bellefeuille Trois-Rivières, Qué., 5th Octobre 1875, pour 5 ans : "Grain Thrashing Machine." (Machine à battre les grains.)

Résumé. 1 La charpente A; 20. Le lit E; 30. La combinaison avec la charpente A la tolle G, 40. La combinaison avec le porte-paille L, do la toile G, 50. Le soufflet K, 60. La combinaison de la charpente A, tambour B, lit E, toile G, porte-paille L, soufflet K, et porte-passe M. Claim.—1st. The frame work A; 2nd. The bed E; 3rd. The combination of the framework A, with the sheet G; 4th. The combination with the straw carrier L, 6. the sheet G; 5th. The blower K; 6th. The combination of the frame work A, drum B, bed E, sheet G, straw carrier L, blower K, sleve frame M.

No. 5250. LORENZO DILL, Greenville, Ohio, U. S., 5th October, 1875, for 5 years: "Car Coupling." (Attelage de wagons.)

Claim.—The combination of the coupling bar D, the prooted and forked swing-bar E, and the draw-head Λ .

No. 5251. ROBERT D. ROBBINS, Port Perry, Ont., 5th October, 1875, for 5 years: "Improvements in Mowing and Reaping Machines." (Verfectionnements dans les faucheuses-moissonneuses.)

Cle.m.—1st. In constructing a r aping and mowing machine in which the cutter bar O, is placed in the centre-line of the axle C, 2nd The shaft G, and spur mitre pinion I, in combination with the spur mitre pinion I, and shaft L; 3nd. The crank-wheel M, with wrist-pin, in combination with the slotted-heel R, and knife Q; 4th. The swing-bar J, with branched ends hinged on to the over hanging-box H, and pin d, a combination with the shaft L, and cutter bar O, with all the gearing on nected thereto, 5th. The slave P, hinged on the swing box N, and bracket T, in combination with the keeper-plate p, and cutter bar O, oth The tongue X, hinged on the axle C, and passing through a vertical slot in the frame A, so as to allow the machine to work independently of the tongue, and thus permit the automatic raising and depressing of the cutter-bar O.

No. 5252. EDWARD D. HARGREAVES, Sarnia, Ont., 5th October, 1875, for 5 years: "Railway Car Ventilator." (Ventilateur de voiture de railroutes.)

Claim.—The combination and arrangement of belting or gearing B, axle A, pipes E, openings F, exhaust fan D, with the railway car.

No. 5253. Thomas Harvey, and Alexander Harvey, London, Ont., 5th October, 1875, for 5 years: "Dumping Waggon." (Wagon à bascule.)

Claim.—ist The waggon-box G, C, with movable bottom plants A, A1, pivoted at ends B, B1, B2, B1, 2nd. In combination with the above the bars F, H, pin J, chain K, handle L, brace D, and tie-rod E.

No. 5254. PARLEY J. AYRES, Lindsay, Ont., 5th October, 1875, for 5 years: "Portable Buggy Top." (Soufflet de voiture mobile.)

Claim.—The arrangement of the inpered-socket B, in combination with the tapered pin, the connection of the anli rib by the socket E, and elastic band and brace F

No. 5255. Hugh Sells, Vienna, Ont., 5th October, 1875, for 5 years: "Cider Mill." (Moulin à cidre.)

Claim.—1st. The combination of the pinion and lever K. Ki, the standards L. L. plate d, and wedge e, with the press-bar 1, provided with the rack b, and tis guide j, on the cross-piece A1, 2nd The revolving face-plate D, of iron with the wooden-disc E attached ar, ed with metal studs, or teeth as a grinder, in combination with the hoper, so arranged as to force the apples against the revolving wooden-disc E.

No. 5256. Samuel L. Porter, and Duane Pick, Rochelle, Ill., U. S., 5th October, 1875, for 15 years "Railway Rail Support." (Coussinet de railroute.)

Claim.—1st. A metallic railway the constructed of symmetrically arranged hed-pieces or supports connected by diagonal braces, 2nd, The bed plate or rail support A, provided with lings or ledges D, at both sides of the rail in combination with locking plate E, key F, set serew f, sad the rails C, 3rd. The bed plate having slotted both orifices in combination with the rail and fastening serew botts having projecting due heads and note to be tightly applied to the rail base. Ith The bed plate provided with both orifices, having a square nut onfice and diagonal extension slot.

No. 5257. Nicotas Yagn, St. Petersburg, Russia. 5th October, 1875, for 5 years: "Improvements on Feeding Apparatus of Steam Boilers." (Perfectionnements aux appareils d'alimentation des chaudières à vapeur.)

Claim. — 1st. The self-acting apparatus for feeding steam boles with water consisting of two reservoirs R, and Ri, placed one above the other and separated one from the other by an intervening non-conducts