bination for the purposes set for h; 2nd. The grooves II, III, and stop pin J of the cradio, as described, which cradie is taide separable or fixed acting in combination with the parts of the chair set forth in the first claim, the chair and cradie working together, as described, or in any other manner substantially the same.

No 4413. John Grist, jr., Ottawa, Ont., (Assignee of A. Huber) 22ud February, 1875, for 5 years: "Improvements on Mirrors." (Perfectionnements aux miroirs.)

Claim—1st Coating the silvering of a mirror plate with a water proof material or liquid B, and a covering of cement or calcined gypsum G, applied in a plastic state to harden therein when dry for the purpose set forth, 2nd. Securing a mirror plate A, or picture in a frame D, by a backing of coment or calcined gypsum C, applied in a plastic state to adhere to the plate and frame when dry, as set forth.

No. 4414. JOHN M. BRUCE, West-Townsend-MASSENA M. HEATH and GEORGE E. UNDER WOOD, Ayer, Mass., U. S., 22nd February, 1875, for 5 years: "Improvements on Street Lanterns." (Perfectionnements aux lanternes de rues.)

 $(V_{aim}.$ The combination of the posts B and B:, the lantern L, chains D, D:, and count r weights, all operating together as described.

No. 4415. John M. Brosius, and Samuel K. Campbell. Richmond, Va., U.S., 22nd February, 1875, for 5 years: "Car Axle Box." (Boîte d'essieu de wagon)

Claim.—1st. The combination with axle box, of a journal gate E. having excisions e. e. and the guide grouve E., having inclined strips et. et. placed in the lower end, as set first: 2nd. The plate E. pri-pecting inwardly from the rear of the axle box, as specified; 3rd The combination, with an axle box having the annular recess or grouve at of the clastic ring I, as set forth, 4th, The combination with axle box of a device to hild the labilitation fabric to the journal consisting of the plate suring K, placed longitudin ally on the bottom of the box. I stened at the outer and, and the cross bir Ki as described; 5th. The combination, with 1 ibricating fabric J, of the slotted horder J, and guide plate J, as described, 6th The combination with spring band K, of a piveted fabric-holder st, as specified.

No. 4416. THOMAS SULLIVAN, Believille, Ont., 22nd February, 1875, (Extension of Patent No. 256), for 5 years: "Tire Upsetting Machine." (Machine à refouler les bandages de roues.)

Claim —The arrangement and combination of the various parts of the machine, viz the investble bed plate C, being drawn towards the fixed bed plate B, by the application of the lever N, to the curved rack I, the eccentries D, D, to hold the tire to be shortened firmly to the bed plates B and C.

No. 4417. DAVID S. CORNELL, WARWICK, and ELI B. WHITE, Bosanquet, Ont., 23rd February, 1875, for 5 years: "Straw-Cutter." (Hachepaille.)

Claim.—1st. The post C, secured to the box and legs of the machine by horizontal bars D, in combination with a diagonal kinfo holder connected thereto by end pivito! bars G, and having a suitable handle F, for operating the knife P, as set forth: 2nd Proveling the bars G, with an adjustable block J, operated by set screws K, for gauging the feed-cut, as set torth: 3rd. The combination of the frame M, rod a, spring N, and treadle Q, operating asset forth, f r depressing the feed roller or block L, in the cutting box A, as described.

No. 4418. ALEXANDER RODGERS, Muskegon, Mich., U. S., 23rd February, 1875, for 5 years; "Circular Saw Carriage." (Table mobile de seie ronde.)

Claim.—1st. The supplementary rack D, in combination with the head block B; 2nd. The stops E, upon the rick D, in combination with the stops Q, upon the head block B; rd. The disengaging rack I, in combination via the he setting jack C, and adjusting lever F: 4th The resprecenting rack G in combination with the setting shaft O, provided with the both H; 5th. The can I, operated by the head lever, in combination with the touthed are J, and setting rack G; 6th. This plat form S, in combination with the devices for retracting the setting packs; 7th. The dogs V, provided with the rubber custions g, in combination with the oscillating

posts V. and setting jack C; Sih The setting snafts N. and O provided with the adjustable couplings, as described, for the purpose of regulating the relative positions of their pintons or other operating devices, as set forth

No. 4419. Thomas Penton, Sarnia, Ont., 23rd February, 1875, for 5 years: "Combination of a Steam Engine with a Cooking Stove." (Ajustage d'une machine à vapeur à un poèle de cuisine.)

Claim.—The combination of the steam boiler B, engine D, and connecting pipe K, with the parts of cooking stove A, C, E, and Z, as set forth.

No. 4420. LEWIS M. BECKER, Peckham, Eng., 23rd February, 1875, for 5 years: "Improvements on Sewing Machines." (Perfectionnements aux machines à coudre.)

Claim.—1st. The adaptation to and use in sowing machine spools and shuttles of cotton thread or other sowing material a, resply w under speed in appropriate forms, as described, upon perforated card or other material be a upon boshins a, such perforated card or other material or boshins as the case may be, being arranged to enter and be chained within the pool d. c. e. f. or shuttles f. of such machine, as to forth: 2nd. The construction of sewing machine speeds in which the two discs or plates d. f. can be readily separated and the sowing material a. previously wound into an appropriate form placed upon the shank or body c, of the spool between the two discs as described. 3rd. The methods of securing bobbins a, of ready wound sowing material a. in the shutles i, of sewing machines, as described idth. The application and use in co-chination with the rect n, and fixed spindle or pillar a, in a sewing machine of a guide m, for equalizing the tersion or strain upon the cotton or sowing material a, as described.

No. 4421. BENJAMIN WAGGONER, Reach, Ont., 23rd February, 1875, for 5 years: "Improvements on Gang Ploughs." (Perfectionnements aux charrues à socs multiples.)

Claim.—The use of the swivel axle D, for the front wheel of gang thoughs so constructed as in turning to bear against the crank E as set forth, 2nd. The use of an a funtable coupling K, connecting the handle Di. with the crank H. of the back wheel as set t th. 3rd. The use of the swivel box N, and the jointed arm Li, Li, in connection with each other, as set forth

No. 4422. BENJAMIN WAGGONER, Reach, Ont., 23rd. February, 1875, for 5 years: "Iron Neck Yoke." (Joug en fer.)

Claim.—1st. The mode of constructing neck yokes out of bar iron in the shape shown in the drawings: 2nd The use of the ferule E, as applied to iron neck yokes as set forth

No. 4423. James F. Williams, Niagara, Ont., 23rd February, 1875, (Extension of Patent No. 257,) for 5 years: "Boot and Shoe Latchet Loop." (Bride de lacet de chaussures.)

Claim — The use of loops A, arranged to intervene each other on each side of the opening to be closed to receive a string C; also the application to the loops A, of an external metal-ic band to be rivotted or otherwise fastened to the sides of the opening to be laced for strengthe-ang the loop and ornamenting the boot or shae; also, the application to boots and shoes for the purpose of fastening of independent loops, to be attached to the sides of the opening to be closed to receive the lacing string C, in the manner substantially as described and set forth.

No. 4424. Joseph H. Osgood, Boston, Mass., U.S., 24th February, 1875, for 5 years: "Composition for Printers Inking Rollers." (Composition pour les rouleaux de distribution de l'encre d'imprimerie.)

Chain.—1st The process described for making a granular composition to be east into printers inking rollers or melted for an adnessive cement, the same consisting in combining glue, water and saccharine matter without the application of heat, in the manner set forth: 2nd. The granular composition described, consisting of glue, water and saccharine matter for the purpose specified.

No. 4425. Finis L. Bates, Carrollton, Mis., U. S., 24th February, 1875. for 5 years: "Nutlock." (Noix de sureté.)

Claim.—A nut having its threaded portion extending partly through the aperture, in combination with an ordinary servebo... so that when the nut is applied the urent portion of the aperture of the nut will strip one or more threads from the holt, as specified.