Claim.—1st. The shell A, perforated diaphragm C, inbular plug e, and s rew or valve f; 2nd. The employment in connection with the glube or chan ber A, of the perforated dephragm c, whereby the gas is apread out and compelled to come about the entire inner surface of the chambers a; Jrd. The tubular plug e, and scrow or valve f, in combination with the chamber a, and diaphragm c, whereby the amount of gas admitted under its original pressure to the burner is regulated without disturbing or removing any pertion of the device; 4th. The construction of the block or cock l, and plug a. and plue o

No. 3515. James L. Sprague, Hermon, N. Y., U. S., 5th June, 1874, for 5 years: "Milking Stool." (Bane pour traire les vaches.)

(Banc pour traire les vaches.)

Claim. — let. The combination of an adjustable pail holder consisting of the heard J, arm I, and post II, with a milking stool having a device tor hilding the tail of the cow while milking: 2nd The manner of recurring the lever E, to the seat by a serow G, passing through an clongated hole, as set forth.

No. 3516. WILLIAM WEST and PETER WEST, (Assignees of W. A. West), Toronto, Ont., 8th June, 1874, for 5 years: "Manufacture of Burial Cases." (Fabrication des cercueils.)

Claim..-The application of a silver or nickel plated frame work stamped or rolled to any ornamental design of thin sheet metal for the purpose set forth.

No. 3517. AUSTIN D. CABLE, Montreal, Que, (Assignee of G. Murray), 8th June, 1874, for 5 years: "Improvements on Faucets." (Perfectionnements aux robinets.)

Claim.—1st. The shell a, having projection or sent k, in combination with the valves e, operated by end of nozzle m, n, said end m, n, forring joint on lowerside of k: 2nd. In a fearet, the projection k, forming a double valve-sent, in combination with the valve e, (actuated by the end of nezzle 1,) and valve formed by m, n, as set for the sent of the control of t as set forth.

No. 3518. Austin D. Cable, (Assignee of L. Danze), Montreal, Que., 8th June, 1874, for 5 years: "Improvements on Lifting Jacks." (Perfectionnements aux crics.)

Claim.—1st. The combination of the cylinder a, sleever, bar f. pin h. and lever k. having end m. at right angles, all working together as described; 2nd. In a litting jack a, sleever, guided as described, in combination with a bent lever k, and adjustable bar f

No. 3519. ELIZA M. JONES, wife of C. JONES, Brockville, Ont., 8th June, 1874, for 5 years: "Tucking Device." (Appareil à plisser.)

Claim.—let. An engraved, marked or in any other way delineated scale or plate as the cloth plate A, of any sewing machine having setters or figures or both of reference thereon; 2nd. A chart or book of a titens of tooks b, ving setters or figures, or both of reference relating to and corresponding with a scale B, engraved, marked or otherwise delineated, on the cloth plate of any sewing mach ne; 3rd. The combined use of a book or chart of patternitucks lettered or figured and a relative scale on the cloth plate of any sewing machine correspondingly lattered or figured to indicate the position for placing the rauge B, and markor E. of a tucker, to make a certain width of tuck selected or chosen from the chart and delineated thereog. and delineated thereun.

No. 3520. John Absterdam, New York, U.S., 8th June, 1874, for 5 years: "Process of Manufacturing Steel and Welding Steel and Iron." (Procédé de fabrication de l'acier et de

soudage de l'acier et du fer.)

Claim.—Ist. In a bar, plate sheet or slab of semi-steel of communication produced by subjecting unrefined wrought from bars or rough flats of old wrought from roles to a process of cementation and then reliating the metal by welding the same together into a merchantable writcle as deveribed; 2nd A railway ber made of wought iron and semi-steel of cementation produced by subjecting the crude unrefined iron hars, puddled bars, scrap bars, muck bars or flats from old iron rails to a process of cementatin, and finishing the metal after comentation into a head bar by welding the same together under a hammer or by the action of rolls, then welding the said head bar to an iron pile in finishing the whole into a merchantable railway har; and A railway bar made of semi-steel of comentation and wrought iron by subjecting the crude, unrefined iron bars, puddled bars, nuck bars, scrap bars or flats of old iron rails to a process of convention and then refining the metal during the process of conversion into a steel bended rail in the manner specified; 4th in a bar, plate, sheet or slab of wrought iron with steel surfaces produced by subjecting blooms, billets, loops, bars or slabs of wrought iron to a process of comentation sugerficially or of case hardening, before the metal is finished through the finishing rolls, and then reheating the said case of hardened iron and finishing the same through the finishing rolls into a merchantable steel plated wrought iron; 5th. The process of welding cast or Bessemer steel and wrought iron into one body by placing between the plates or bars of cast or Bessemer steel and wrought or shear steel or other

steel of comentation, blistered steel, puddled steel or case hardened wrought iren, which forms an intermediate welding metal or soldering agent as set forth, 6th. The process of welding together solderitz agent as set forth, fill. The process of welding together cast or lioses-mor steel and wrought mon into one body by first case hardening the surface of the proces, then placing the case invidence of wirfsees against each other in the price of agent and heating and rolling the same into a merchantable article; 7th. The process of removaling the welding properties of old rails or flats made of the same by subjecting said rails or flats to a process of each and ming as described; 3th Providing the surfaces of the metal to be welded with depressions, indentations or corruptions for the purpose of retaining the flux between the welding surfaces as set forth.

THOMAS J. REYNOLDS, Irvington, Ill., U.S., 8th June, 1874, for 5 years: "Railway Switch." (Aiguille de railroute.)

Claim -- 1st The combination of the rails U. B. rad F. spring G. and target rad if, with the rails A. D. and piece E: 2ad. The combination of the piece E, with the rails A. D. and lugs b, b, b,

WILLIAM M. WISWELL, Portland, No. 3522. Me., U. S., 8th June, 1874, for 5 years: "Improvements on Car-couplings." (Perfectionnements aux attelages de wagons.)

nements aux atteluges de Wagons.)

Comments du danwbar of a raiway car. constructed and provided with the axial or central bore C, and bott F, and sur ng H, and the pin E, with the plate d. for permitting the removal of a bent pin; 2nd. The pin E, with its channel or groove a, in combination with the clate d drawbar A, and spring bott F, 3rd. The drawbar A formed with the futernal abutinent at, pin receiving hole as and provided with the elastic seat I, under and at the roar end of said abutinent as; the In self-looking our couplings, the combination with the drawbar of a vertically sinding latch F, and coupling-pin! connected together to be operated simultaneously by a stopic lover J, 5th. In combination with the sliding gate or latch F and c whing pil. the T shaped lover J, connected to said parts so that the fever may be operated from either the side or platform of the ear to effect the simultaneous movement of both the latch and the coupling pin, 6th. In combination with the coupling link N, having the hole Q, and hook P, the shding gate F, and coupling pin L, connected so that the link on entering the drawbar will raise the broth, lift the coupling pin simultaneously and afterwards drop with the latch then the latter clears the book P, the pin outering the hole Q, at the same time that the latch drops in front of the hook P, as set torth.

No. 3523. ROBERT LITSTER, Halifax, N. S., 8th June, 1874, for 5 years: "Improvements on Coffer-dams." (Perfectionnements aux boitardeaux.)

Claim —Ist. A coffer-dam having an inner and outer shell constructed of the superstructure sections A, and sections L, and inserted intervoling pieces F, to receive... clay puddling, the several parts being adjusted together and capable of saparation by screw boits, as set forth; 2nd. The section pieces B, with crosspieces E, boiled logether and adjustable in the section of the superstructure frame A, in the manner set forth.

No. 3524. John S. Ellis, Washington, D. C., U.S., 8th June, 1874, for 5 years: "Nut Lock."

(Bride de noix.)

Claim.—The use of the wire B, of tough iron or other suitable metal secured in the groove A. in the ride of the bolt, in combination with the projection or lugs D. cast on the lower surface of the nut C, when constructed, arranged and operating as specified.

No. 3525. Lucius Gill and Elijah S. Coon, years: "Improvements on Spring Bed Bottoms." (Perfectionnements on Spring Bed Bottoms." (Perfectionnements aux fonds de lits à ressorts.)

a ressorts.)

Claim—1st. Secring the springs D. to the stats C. by a flat headed button E having a shank pasing through the stats and beat to form a ho k for receiving the loop of the springs; 2nd. Fastening the ends of the springs B. to the cross-bars B. by rabetting the latter and inserting the former diagonally in the bars as specified; 3rd The bent-rod G, having pivotal connection at each end with hoad rest F, and centrally with a bar H. sliding on the head of a bedstead and operated by cord M, and knob J, in the manner set forth; 4h. The employment of metallic dearning K, secured to the sideralls of a bedstead for receiving the end of the cross-bars B; 5th The employment of metallic sockets L, secured to the side rails of a bedstead receiving the projecting ends of the cross-bar of the head rest F, cylindrically to form a pivotal connection therewith as set forth. as set forth.

No. 3526. George L. Elson, Des Moines, Iowa, U. S., 8th June, 1874, for 5 years: "Improvements in Corsets." (Perfectionnements dans les corsets.)

Chrim.—let. The method of securing a stay-busk to the edge of the corest by means of eyelets o b. and study d. d. in the manner set forth; 2nd The auxiliary leaf or stay C, in combination with a correct A, and stay-busk B, when constructed and arranged to operate as specified.