Claim-The fluxed heads C. rounds D. and fluted balls G. all constructed and arranged for operation as set forth.

o. 3707. DAVID N. B. COFFIN, Jr., Newton, Mass., U. S., 31st July, 1874, for 5 years: "Improvements on Capstans and Windlasses." (Perfectionnements aux cabestans et vindas.)

Claim.—1st. The combination with a single shaft, of two or more fast friction wheels, a corresponding number of correlative loss chain-wheels, a corresponding number of correlative loss chain-wheels, and suitable means for locking the chain-wheels so-verally to their respective friction wheels or to the shaft; 2nd. The combination of the fast friction wheels or to the shaft; 2nd. The combination of the fast friction wheels or to the shaft; 2nd. The combination of the fast friction wheel a loss hearing gear leaves chain-wheel p, and lock helts h or their capital superial gear wheel and the chain-wheel are constructed as described, so as to form local openings or annular openings for a partial exposure of the lock-bolts h in the friction-wheel upon both sides thereof; 4th The combination of two or more loose chain-wheels q and a corresponding number of independent riding pawls 17 acting upon the chain lugs 21, 5th. The sudependent riding pawls 17 acting upon the chain lugs 21, 5th. The sudependent riding pawls 17 acting upon the capitan shaft in combination with the shiftable gear-wheel in the manner described; 6th. The combination of the friction wheel a friction-strap l, and spring 2: 7th. The spar wheel v upon the capstan shaft in combination with the shiftable gear-wheel 10, having a flange 11, and the class 13. 5th. The capstan-pawls having lateral lugs or their equivalents, formed upon them, in combination with the fixed catches upon the capstan-barrel, all ar shown in Fig. 9; 9th. The signific-barrel and head of the capstan, in combination with the inclined and inverted taper gears 13, 14, 15, gear carrier m, and lock-bolts p and nor their equivalents all arranged and operating as described; 10th. The inclined and inverted taper gears 13, 14, 15 and gear carrier m, in combination with the slaine lock-bolts p and nor their equivalents all arranged and operating as described; 10th. The inclined and inverted taper gears 13, 14, 15 and gear carrier m, in combination with the slaine lock-bolts p; 11th. The cent Claim.-lst. The combination with a single shaft, of two or more wheel meshes.

No. 3708. Ludwig O. P. Meyer. Newtown, Ct., U. S., 31st July, 1874, for 5 years: "India Rubber Compound against which Safety Matches can be Ignited." (Composition de caoutchouc pour frotter les all'umettes de sûreté).

Claim. A compound of India Rubber, or allied gum, sulphur and No. 3718. gray sulphur of antimony as described, forming a suitable surface

on which to ignite safety matches

No. 3709. DANIEL C. KELLAM, Pontiac, and ROBERT HAYES and ALBERT HAYES, Detroit, Mich., U. S., 31st July, 1874, for 5 years: 'Improvements on Window Screen Frames.' (Persectionnements aux cadres des écrans de fenêtres).

Claim.—1st. In combination with the frames a, at, the concealed springs B, B,: 2nd. In combination with the frames a, at, the sockets D, D, situated on the side faces of said frames: 3rd. The frames a, at, provided with extensions c c, on their ends, to which are attached concealed springs B, B, in combination with the sockets D, D, situated on the side faces of the frames a, at, and flush with the upper and lower surfaces of the cross-bars of the frames.

No. 3710. BENJAMIN TAPPAN, Steubenville, Ohio, U. S., 31st July, 1874, for 15 years: "Miners' Lantern" (Lampe de mines.)

Claim.—1st. A casing composed of a central section of mica, and an upper and a lower section of wire gauze or finely perforated metal, the sa d section entirely surrounding the upper part of the lamp, the wick or flame chamber, and the space above, and fitted in upon or over each other and held in position in manner set forth; [2nd. The mica portion of the casing E, having wire gauze sections D. D. fitted toits edges at top and bottom, and combined with the lamp A, Al, rods G, flange B, ring H, and hinged and lock cap I.

No. 3711. HENRY WHITESIDE, Jr., Ottawa, Ont., 31st July, 1874, for 5 years: "Spring Slat for Beds." (Tringle de ressorts de lits.)

Claim—The steel wire spring bent in the form as indicated in Figs. 1 and 2, in combination with the wooden slat as shown in Figs. 3 and 4, as set forth.

No. 3712. Henry Behning and Justus Diehl, New York, U. S., 31st July, 1874, for 5 years: "Improvements in Piano-fortes." (Perfectionnements aux pianos-fortés.)

Claim.-The elevated rest C, on agraffe B, as described.

No. 3713. EZRA S. WATERMAN, Hamilton, Ont., 31st July, 1874, for 5 years: "Improvements in Bed Bottoms." (Perfectionnements aux fonds de lits.)

-lst The slats c, of a bed bottom supported by strap (Vain steel springs E: 2nd. The construction and combination of the bevelled sills A. cross-pieces B, strips D, with the single and double springs E: 3rd. The arrangement of fastening the springs E, strips D, and slats C, with one bolt or rivet as specified.

o. 3714. WILLIAM F. REDDING, New York, U. S., 31st July, 1874, for 5 years: "Improvements on Metallic or other Boxes." (Perfectionnements aux boites métalliques ou entres.)

Main -1st The novel combination of the box B, cover C, handle H, rivers 1 and 2, all operating as set forth, 2nd. The handle H, secured to the cover C, and pivoted to the box B, for the purpose

set forth.

o. 3715. WILLIAM MOREHOUSE, Buffalo, N. Y., U. S., 31st July, 1874, for 5 years: "Improvements on Ship Knees." (Perfectionnements aux courbes des navires.)

Claim.—A ship knee consisting of the wrought angle iron A, strengthened by a corner brace d, as described.

WILLIAM B. HALL, Lancaster, Penn., U. S., 31st July, 1874, for 5 years: "Improvevements in Cartridge Creasing for Breech Loading Fire Arms." (Perfectionnements dans le suage des cartouches de chargement par la culasse.)

Claim-The combination of a grooved roller or cylinder A. and creasing wheel B. on their respective arms a. and b. hinged together at C, operated and constructed in the manner set forth.

WILLIAM H. BECKETT, Chelmsford, Eng., 31st July, 1874, for 5 years: "Improvements in Valves." (Perfectionnements aux valves.)

Claim.—The adaptation or combination of the parts ci, c2, d, and e, e1, and b2, acting in the manner stated.

o. 3718. WILLIAM M. WATSON, Tonica, Ill., U. S., 31st July, 1874, for 5 years: "Nut Lock." (Noix de sureté.)

Claim.—1st. The method or process described of locking and unlocking nuts by bending the lip formed on the screw threads out of place, and restoring it again as specified 2nd. The lip e, formed by bending the bult throad; 3rd. The key A, made with one side flat and the other bevelled to correspond with the angle of the thread edecarious. thread, as described.

No. 3719. CHESTER COMSTOCK, New Canaan, Ct., U. S., 31st July, 1874, for 5 years: "Combined Hot Ain and Hot Water Furnace." (Calorifère mixte.)

Claim.—1st The hot water chamber F, provided with the pipes f, f, and combined with the fire place E, shells B, A, and smoke pipes g, g1, g2, 2nd The combined hot air and hot water furnace, in combination with one or more hot air registers and radiators or coils placed in any room and affording to both their respective surplies of hot air and heated water or steam as described.

No. 3720. J. YGNACIO CASSIANO, San Antonio, Texas, U.S., 3rd August, 1874, for 5 years: Improvements on Hats." (Perfectionnements dans les chapeaux.)

Menis dails les chapeaux.)

Claim—1st. The hat band Bt, made in sections, and each section provided with one or more U-shaped springs C: 2nd. The combination of an extension brim E, and extension devices for varying the extension with the permanent brim of a hat; 3rd The folding extension arms G, mounted on sliding extension arms K; 4th. The combination of the elastic straps L. with the extension brim E, and the sliding extension arms K: 5th. The combination with a hat, of a brim or sun shade E, for extending beyond the remanent brim, also for folding back under it; 6th. The combination of the ring C, stationary arms D, adjustable arms G, and clips g1, with a hat and an extension brim E; 7th. The combination of the clastic cord F, with the extension brim and the clips g1; 5th. The combination of the hooks M, with the clips g1, elastic cord and the extension brim as specified.

No. 3721. Phineas F. King, George N. Beard, ELEAZAR J. BEARD and JAMES ASHWORTH, St. Louis, Mo., U. S., 3rd August, 1874, for 5 years: "Nut Lock." (Noix de sureté.)

Claim.—1st. The belt provided with two nuts, and composed of two sections constructed so as to draw in opposite directions with each other; 2nd. The combination of sections a, b, having heads c, d, scrow threaded portions g, and reduced shank h, and provided with nuts for the sections of the section of the sections of the sections of the sections o with nuts c, f.