Claim.—1st. The rack or ratchet B, formed on the stock A, in combination with the similar and corresponding rack or ratchet C, formed on the relate D, and engaging with and fitting into the rack or ratchet D, as a device for preventing the movemble jaw E, from sliding on the stock A; 2nd. The arrangement and c mbination with the two racks B, and C, of the eccentric G, and lever K, as a device for keeping the racks B, and C, interlooked or engaged with each other; 3rd. The stock A, when made with the width thereof at H extended, increased, or greater than at any other part thereof, so as to make the stock stronger at or near H, than claswhere as described.

No. 2461. George Rawle, Bristol, and Wil-LIAM N. Evans, Bedminster, Eng., 14th June, 1873, for 5 years: "A Tanning Process." (Un

procédé de tannage.)

Claim.—let In coating the grain side of skins or hides with a protecting coating of grouse and oil or other coating capable of protecting such side. from the section of tannin liquor and subsequently submitting the skins so prepared to the action of tannin liquor in a tan pit as described; 2nd In protecting the grain side of skins and hides from the action of the tanning process.

No. 2462 Augustus D. Marr, Boston, Mass., U. S., 14th June, 1873, for 5 years: "Improvements in Shirts." (Perfectionnements dans les chamises)

Claim.—let. A fo'ding shirt or garment front or facing A, made or provided with one or more reversible flies C, D, to fold at the middle and over and button from one sade to the other of the front; 2nd In two or more pieces At. Bt. Ct., of cloth arranged as slown in Fig. 2 and connected as described so as to form a shirt or garment front or facing with one or more reversible flies C, D, to operate as set forth.

No. 2463. James A. Whelpley, Dartmouth, N. S., 14th June, 1873, for 5 years: "Machine for Grinding and Polishing Metal Articles." (Machine à aiguiser et polir la contellerie.)

Claim.—l.t. The combina ion of the two grindstones or polishing wheels F. F. and sliding .r.unes B. Bi; 2nd. The combination with the grindstones or polishing wheels Y. Fi, and sliding frames B, Bi, the adjustable rest J, and friction rollers d, d, di, di.

No. 2464. Austin D. Cable & John C. Ford, Montreal, Que., (Assignees of Nathanial Marshall, 14th June, 1873, for 5 years: "A Double-acting Force Pump." (Une pompe foulante à double-effet.)

Claim—1st. The combination of the hollow rod or tube C. and piston with the cylinder a. (containing air chamber), and water chamber), discharge chamber b, and suction pipe b, with valve k; 2nd In combination with the piston the hollow rod or tube c, with stop c), and provided with spenings as described; 3rd. The piston composed of chambers; and k divided up respectively by duplarigus; i, and k), and having openings is, it, ki, and k), washers l, and m, and plate n, all as described.

No. 2465. JAMES ANDERSON, Quebec, Que., 17th June, 1873, for 5 years: "A Truss Bridge." (Un pout à travées.)

(Un pont a travees.)

(Caim.—1st. The top chords A, constructed as shewn in Fig. 4 with the improved clamps J, in combination with girder iron and trus r as K. 2nd. The bottom chord B. Fig. 10. constructed of a continuous cable wire or round x-on and provided with rings Bi, in combination with prions C. Figs. 16. Ir. and 18. and ond boaring blocks H, main bolts K, and clamps J; 3rd. The bottom chords B. Fig. 11. constructed of a round iron with rised budy Bi, and clevis joints and; atted end, in combination with prisms C. Figs. 16. I7 and 18 cnd bearing blocks H, main bolts K, and clamps E; 4th. The bottom chord B. Fig. 12. constructed of short iron bars and seriew nuts B: in combination with prisms C. Figs. 13. Is and 15. ond bearing blocks H, and mit main bolts K; 5th. The combination washer F. Figs. 24. 25 and 26. composed of cylindrical outer case perfor ted vole inized rabber filing, and rim are over washer to receive the bolts or chords, in the manner set forth; 6th. The combination wish with bottom chords Figs. 10. It and 12. and main bolts K; 7th. In same ding the cross girders by moons of main bolts K; or other equivalents and hearing pice s L, under the prisms, in the manner specified; 8th. The application of shearing straps I, Fig. 31 to the bottom chords when composed of flat bars; 9th. The combination of top chords A, bottom chords H, B, B, Clamps E, prisms C, combination washer F, ond block H, and bearing pieces L, with the usual portions of a Howe truss bridge as set forth.

No. 2406. George H. Hume, Paola, Ka., U.S., 17th June, 1873, for 5 years: "Portable Fence and Stock Pen." (Cloture portative et parc à bétail-)

Consists in the manner of connecting the panels of a portable fence which are constructed with state and wires with the supporting treatles and in the method of connecting the corner panels.

Claim.—let. An improved corner joint for fence panels consisting of the horizontal rail F, provided with battens A1, A2, A3, and fastening pin C; 2nd. The treatles B, applied between the adjoing onds of the punels and inserted fastening pin C, passing through the same for bracing the tence; 3rd. The combination of the rails F, atiles A, A, wires D, and pins d, arranged as set forth for constructing a portable fence panel as specified.

No. 2467. SAMUEL W. COZZENS, Milwaukee, Wis., U.S., 17th June, 1873, for 5 years: "Back Support of Chairs and other Seats." (Dos de chaises, bancs et autres sièges.)

Claim.—lst. A back support C. consisting of springs D, and E, and for use in connection with chairs, stools and other seats; 2nd. In combination with the above claim, the back support C. constructed to support a person's back each side of the spinal column as described.

No. 2468. John R. Blakeslee, Youngstown, Ohio, U. S., 17th June, 1873, for 5 years: "Machine for Making Forged Nuts." (Machine à faire les noix forgées.)

Relates to the arrangement of two shears or cutters each having a V shaped cutting-edge operated upon by any suitable driving mechanism in such manner as to advance towards each other in a straight line in such respect to the seat or die as to form two sides of the same whoreby a nut cut or severed from a bar in said seat will be of hexagonal shape.

Claim.—The combination of the reciprocating pointed cutters D. Di. and the sent or die E. the latter compased of two straight and two oblique sides, with a discharge opening beneath as described.

No. 2469. DANIEL M. LAMB, Strathroy, Ont., 17th June, 1873, for 5 years: "Art of Producing Water-proof Gum." (Art de faire de la gomme hydrofuge.)

Claim.—The arter process of producing water proof gum from flax-seed or other seeds possessing similar properties by maceration, straining and subsequent inspissation.

No. 2470. GEORGE W. BALLARD, Coldwater, Mich., U. S., 17th June, 1873, for 5 years: "A Spring Bed Bottom." (Un fond de lit à ressorts.)

Claim.—1st The double helical spring B, when the bale thereof has formed in it the eye b; 2nd. The slate CI supported across the end of the frame b; the springs D; 3rd. The construction and arrangement of the frame A, springs B, and slate C, Ct.

No. 2471. WILLIAM M MARSHALL, Philadelphia. Penn., U. S., 17th June, 1873, for 5 years: "A Shade." (Un abat-jour.)

Claim—1st. The bair 4, with its internal face constructed of plates or pieces of sirered mica, 2nd. The plates or pieces of silvered mica secured to the body A, by means of the top and bottom flanges a, b, a priced and operating as set forth.

No. 2472. Albert H. Mershon, Philadelphia, Penn., U. S., 17th June, 1873, for 5 years: "A Gas Heater." (Fourneau à gaz.)

Claim.—let. The gas heater constructed of a metallic body having a face in connection with perf rations in and corrugations on said face, so as to for a a leating surface on the front or loward the apartment; 2-1. In conditionally with a gas bester mechanism for obtaining hot water and steam as set forth.

No. 2473. John Charton, Philadelphia, Penn., U. S., 17th June, 1873, for 5 years: "Shaft Coupling." (Ajustage des axes.)

Claim.—lat A covered coupling consisting of the clamps formed in the body A, and the portions D, E. in connection with tightening recews, wedges or bolts: 2nd The conical screws, wedges, or bolts, and the conical openings, in connection with the claims C, and body A; 3nd. A coupling adapted to receive and hold the ends of shafting of varying diameters; 4th. The clamps divided transversely so that one pair or set is independent of the other; 5th. The auxiliary clips or fastenings H, 5th. The body cored or separaed to form the asgement of a circle which is divided at a in connection with the transverse division at G.