

article of manufacture, a permanent or detachable socket for wrenches, provided with approximately quadrangular sections of different dimensions, the smaller of which sections is situated adjacently below the larger, substantially as set forth. 3rd. As an improved article of manufacture, a permanent or detachable socket for wrenches, provided with approximately hexagonal sections of different dimensions, the smaller of which sections is situated adjacently below the larger, substantially as set forth.

No. 35,644. Curry Comb. (*Etrille.*)

Theodore S. Sherman, Castleton, Vermont, U.S.A., 20th December, 1890; 5 years.

Claim.—1st. A curry-comb or brush, consisting of a leaf or plate, and series of tubular rigid bell-mouthed teeth secured by their flared shanks to such plate, and having their mouth-ends projecting from one side of such plate, substantially as described. 2nd. In a curry-comb or brush, the combination, with a flexible plate, of a series of rigid teeth secured thereon, and severally provided with an air-chamber open on their face ends, and surrounded by a sharp edge, and a backing plate secured to the back of the teeth-supporting plate, substantially as described.

No. 35,645. Riding Saddle. (*Selle.*)

Charles Woods Beard and George Felix Crummett, both of Academy, West Virginia, U.S.A., 20th December, 1890; 5 years.

Claim.—1st. In a saddle, the combination, with the saddle tree provided with the opposite depending hanger plates, the girth passed through said plates and depending from the sides of the tree, and the stirrup straps connected to the ends thereof, of the rear girth connected to the saddle, and an adjustable regulating strap connecting the same with the front girth, substantially as specified. 2nd. The combination, with a saddle tree having opposite hanger plates, of a girth strap mounted in each of said hanger plates and so as to ride therein, said straps being doubled upon themselves and having their terminals depending at each side of the plates, a rear pair of girth straps connected to the rear sides of the saddle, rings mounted in the ends of the rear girth straps and the inner ends of the front girth straps, a connecting regulating strap having its ends engaging the rings, depending girth strap sections connected to the rings, front and rear girths having their ends adjustably connected with the girth strap sections, and stirrup straps mounted in links located in the outer ends of the front pair of girth strap sections, substantially as specified.

No. 35,646. Meat Cutter. (*Hache-viande.*)

Oliver Dwight Woodruff, Southington, Connecticut, U.S.A., 20th December, 1890; 5 years.

Claim.—1st. The combination of the combined forcer and cutter, of the case having the inclined feeding ribs 11, and longitudinal knives 10, intersecting each other on the front side of said longitudinal knives, substantially as described and for the purpose specified. 2nd. The combination of a case having longitudinal knives and spiral ribs, and inclined feeding ribs, the combined forcer and cutter having the longitudinal knives 14, and forcing ribs 15, on the front or cutting edge of said longitudinal knives, substantially as described and for the purpose specified. 3rd. The combination of the case having the longitudinal knives 10, the feeding ribs 11, extending to the front or cutting edge of said knife, and the combined forcer and cutter having the longitudinal knives 14, and forcing ribs 15, merging into the cutting edge of said longitudinal cutters, substantially as described and for the purpose specified. 4th. The combination of a case provided with feeding and cutting ribs, the combined forcer and cutter working against said ribs, and an annular discharge between them at the delivery end of the case, substantially as described and for the purpose specified. 5th. The combination of the case having tapering portion, the combined forcer and cutter fitted thereto, the crank shaft projecting from the large end of said combined forcer and cutter, the cap 5, having a bearing for said crank shaft, and the hub 6, fitted to the large end of said case, the case and cap being provided with engaging lugs for holding and forcing the parts together, and the dog 6, for locking said cap in place, substantially as described and for the purpose specified. 6th. In a meat cutter, the combination of the case, the holding cap fitted thereto, and having serrations *h* at the edge, the dog 6, and crank pin or eccentric by which it is secured to the case, substantially as described and for the purpose specified.

No. 35,647. Steam Boiler. (*Chaudière à vapeur.*)

John Gamgee, London, England, 20th December, 1890; 5 years.

Claim.—1st. In an internal flue boiler, the combination, with a flue tube of an upward continuation having a gradually decreasing passage for the water, and an outlet at the upper end of said passage adapted to discharge the water in an approximately horizontal direction above the water level of the boiler, substantially as set forth. 2nd. In an internal flue boiler, the combination, with a flue tube, of an upward continuation consisting of an outer tube and an inverted inner cone, the said outer tube and inner cone forming between them a gradually decreasing passage for the water, and the outlet of said passage being adapted to discharge the water in an approximately horizontal direction above the water level of the boiler, substantially as set forth.

No. 35,648. Hand Car. (*Char à bras.*)

William H. Engels, Farmington, Arkansas, U.S.A., 20th December, 1890; 5 years.

Claim.—The combination, with the axle and the transverse shaft, of the intermeshing gear wheels secured thereon, the spur-pinions

at the ends of the axle, and the shaft the levers loosely mounted on the axle, and the shaft, and having their lower ends bifurcated the connecting rod between the upper ends of the levers, and the reversible pawls pivoted within the bifurcations at the lower ends of said levers and engaging the spur-pinions, as specified.

No. 35,649. Fire Alarm and Heat Indicator. (*Avertisseur d'incendie et indicateur de la chaleur.*)

Stoner, Myers & Company (assignees of Anthony Iske and Albert Iske), all of Lancaster, Lancaster Co., Pennsylvania, U.S.A., 20th December, 1890; 5 years.

Claim.—1st. A heat indicator, consisting of two bulbs and their connecting tube inclosing volatile liquid in vacuo, the said bulbs and tube being pivoted on a line passing through the lower bulb, substantially as set forth. 2nd. A heat indicator consisting of two bulbs and a connecting tube containing volatile liquid in vacuo, the whole being pivoted as an integral device, in combination with an adjusting screw for regulating the position of the same, and consequently regulating the leverage of the upper bulb, substantially as set forth. 3rd. A heat indicator, consisting of two bulbs and a connecting tube containing volatile liquid, the whole being pivoted as an integral device, in combination with a spring which is arranged to hold the upper bulb against descending while empty, substantially as set forth. 4th. A heat indicator, consisting of two bulbs and a connecting tube containing volatile liquid in vacuo, the whole being pivoted as an integral device on an axis passing through the lower bulb, and the said lower bulb being provided with a projecting stud, in combination with a spring having a catch to engage with said stud, substantially as set forth. 5th. A heat indicator, consisting of two bulbs and a connecting tube containing volatile liquid in vacuo, the whole being pivoted as an integral device on an axis passing through the lower bulb, in combination with an alarm and necessary connections, for the purpose set forth. 6th. A heat indicator, consisting of two bulbs and a connecting tube containing volatile liquid in vacuo, the whole being pivoted as an integral device, in combination with a lever supported by the upper part of said heat indicator and descending therewith, a slide attached to said lever, a catch supported by said slide, and the pull cord of an alarm set free by the withdrawal of said slide from said catch, substantially as set forth. 7th. A pivoted heat indicator, consisting of two bulbs and a connecting tube containing volatile liquid, in combination with an adjusting screw, said tube being provided with a laterally extending arm *Z*, arranged to come in contact with said screw, substantially as set forth.

No. 35,650. Pocket Lamp. (*Lampe de poche.*)

William Maybaum, Philadelphia, Pennsylvania, U.S.A. (assignee of John Harvey Farrel, Camden, New Jersey, U.S.A.), 20th December, 1890; 5 years.

Claim.—1st. A pocket lamp provided with a divided housing and cover, an oil retainer therein having a wick holder and scratcher, a retainer adapted to hold a narrow percussion tape strip or ribbon, a stud pin supported adjacent to said scratcher for said tape, strip, or ribbon to travel over, and a toothed disc extending through the casing at one side and adapted to permit of said tape strip or ribbon being caused to frictionally contact with said scratcher, and the said disc provided with a pin adapted to permit of said tape, strip, or ribbon being wound thereon, substantially as set forth. 2nd. A pocket lamp provided with a two-part housing and a hinged cover, an oil retainer adapted to support in position a wick and scratcher, a pin or lug adapted to hold a narrow tape, strip, or ribbon provided with caps or pellets, a stud pin provided with a milled sleeve, a toothed disc journaled in said housing and provided with means adapted to permit of said tape, strip, or ribbon being wound thereon, and a spring normally engaging with a tooth of said disc, substantially as and for the purposes set forth. 3rd. A pocket lamp provided with a divided housing, an oil absorbent retainer therein provided with a tube adapted to expose a wick, a scratcher, a retaining pin, a tape, strip, or ribbon provided with fulminating pellets or caps mounted thereon, a pin provided with a sleeve, a toothed disc partially exposed beyond said housing and provided with means to permit of said tape, strip, or ribbon being wound thereon, and a spring to prevent a reverse movement of said disc, substantially as and for the purposes set forth. 4th. A pocket lamp provided with an oil and absorbent material receptacle having a wick tube and a scratcher, a retainer located in the lower part of the lamp casing, a toothed disc extending through one side of said casing and provided with a pin or lug adapted to receive an ignitable strip, tape, or ribbon, a stud pin in the upper part of said casing having a loose sleeve mounted thereon, and said disc by the actuation thereof causing said strip, tape, or ribbon to contact with said scratcher, substantially in the manner set forth.

No. 35,651. Dressing Mechanism for Warp Dressers. (*Envergure pour ourdissoirs de métier.*)

Joseph Michael Simoneau and Edward Parsons Morse, both of Ware, Massachusetts, U.S.A., 20th December, 1890; 5 years.

Claim.—1st. The combination, with a slasher or dresser provided with an extension frame, of a set of reeds, each comprising a series of reed rods having spaces and abutments in the arrangement specified, and a carrying frame for said reeds in which said reeds are vertically movable and guided, said reed frame being removably supported on said extension frame, and a bearing support for the section rolls which is also adapted to be removably connected to and supported on said extension frame, for the purpose set forth. 2nd. The combination, with a slasher or dresser provided with an extension frame, of a reed guiding frame which has at its opposing sides vertical ways and at its bottom vertically movable and independent reed supports, a set of reeds, each reed thereof comprising a series