

as and for the purpose set forth. 2nd. In a device for cutting blanks and like circular objects, the combination with a cutter stock having vertical grooves formed therein, projecting knives having their shanks fitting said grooves, and a retaining collar, substantially as and for the purpose set forth. 3rd. In a device for cutting bung blanks and like circular objects, the combination with a cutter stock, of a cutting knife, and a trimming knife, both projecting beyond the end of the cutter stock, and means for retaining same in place, substantially as set forth. 4th. In a device for cutting bung blanks and like circular objects, the combination with a cutter stock, cutting knives (two or more) trimming or clearing knives (two or more) arranged in pairs opposite each other, and a collar and set screws for retaining said instrumentalities in their relative positions, substantially as set forth.

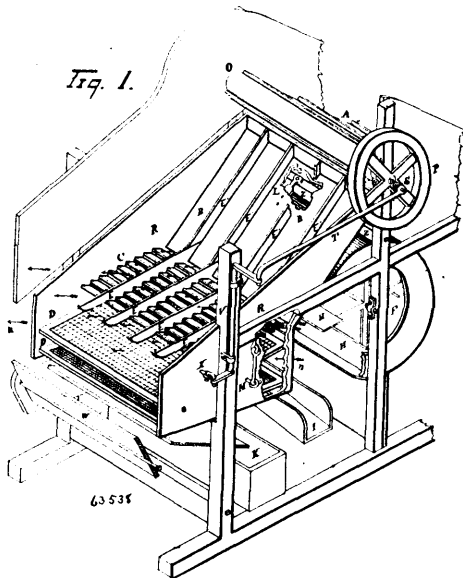
No. 63,537. Pneumatic Tire. (Bandage pneumatique.)



William Evans Body, Collens Street, Melbourne, Australia, 2nd August, 1899; 6 years. (Filed 4th April, 1899.)

Claim.—1st. In pneumatic tires, strips of flexible metal or other flexible non-puncturable material arranged to overlap at the edges and set diagonally within or upon the tire, substantially as and for the purposes set forth. 2nd. In pneumatic tires, strips of flexible metal or other flexible non-puncturable material set diagonally within or upon a tire and having an overlap and bound together by or connected with a central band as E, substantially as and for the purposes set forth. 3rd. In pneumatic tires, strips of flexible metal or other flexible non-puncturable material set diagonally within or upon a tire and having an overlap and bound together or connected with side bands as G, substantially as and for the purposes set forth.

No. 63,538. Grain and Straw Separating Machine. (Machine à séparer le grain et la paille.)



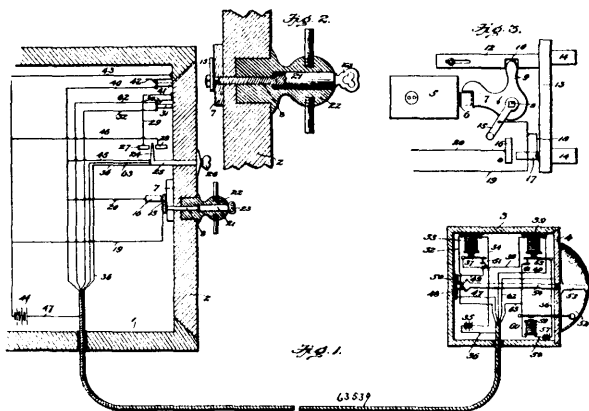
David T. Lowther, North Carlton, Prince Edward Island, Canada, 2nd August, 1899; 6 years. (Filed 20th May, 1899.)

Claim.—1st. In a straw and grain separating machine, the combined shake and riddle box R, R, with its single sidewise motion, consisting of the inclined plane B, B, with wooden pieces E¹, E¹, E¹, E¹, two and a-half inches wide or thereabouts connecting with the slat riddle C, with horizontal slats notched at an angle of thirty degrees or thereabouts into and nailed underneath wooden pieces E, E, E, E, in continuation of those on the inclined plane B, the whole being fastened together by wooden sides, in combination with the ordinary riddles D, D, substantially as and for the purpose hereinbefore set forth. 2nd. In a straw and grain separating machine, the slat riddle C, with horizontal slats notched at an angle of thirty degrees or thereabouts into and nailed underneath wooden pieces E, E, E, E, substantially as and for the purposes hereinbefore set forth. 3rd. In a straw and grain separating machine, the combination of the slat riddle C, with its wooden pieces E, E, E, E, and the fans H, H, &c., and the wind guide board G, substantially as and

for the purpose hereinbefore set forth. 4th. In a straw and grain separating machine, the method of separating the grain from the straw and chaff and carrying the straw and chaff from the separating machine over the tailboard W by means of the sidewise motion of the combined shaker and riddle box R, R, assisted by the force of the wind from the fans H, H, &c., passing through the combined shaker and riddle box R, R, at an angle of thirty degrees or thereabouts and guided in that direction by the wind guide board G, substantially as and for the purpose hereinbefore set forth. 5th. In a straw and grain separating machine, the combination of the combined shaker and riddle box R, R, with single sidewise motion, consisting of the inclined plane B, B, with wooden pieces E¹, E¹, E¹, E¹, the slat riddle C, with wooden pieces E, E, E, E, ordinary riddle D, D, &c., the pivot L, the hangers M, the pulley P, the pitman T, the rocker V, the eyebolt attachment Y, with the fan box F, the fans H, H, &c., the wind guide board G, the elevator A, substantially as and for the purpose hereinbefore set forth.

No. 63,539. Electrical Safe Protection System.

(Système électrique pour la protection des coffres-forts.)



Henry F. Freed, Isaac Freed, both of Harrisburg, Pennsylvania, and George Judd Reed and David Key Clink, both of Chicago, Illinois, all in the U.S.A., 2nd August, 1899; 6 years. (Filed 3rd January, 1899.)

Claim.—1st. The combination with the fixed safe door knob, a lock mounted in said knob, and a tumbler operating shaft carried by said lock barrel, of an electrical circuit having one of its terminals connected to an insulated contact finger carried by said shaft, and the other terminal connected to a contact plate fixed in the safe in the path of said contact fingers, substantially as and for the purpose set forth. 2nd. In an electric safe protection system, the combination with the safe, its hinged door and locking bolts, of an electrical circuit having its terminals extending within the safe and in the path of said door, an electrical alarm mechanism forming a part of said circuit, a knob spindle fixed to the door, a key operated lock contained within said knob spindle and operatively connected to said locking bolts and adapted to interrupt said circuit. 3rd. The combination with the safe, of the plunger 41 mounted in the path of the safe door, the contact finger 42, of a normally closed relay circuit comprising the magnet 39, battery 44, conductors 40, 43 and 47, the lock 25, the insulated finger 24 carried thereby, the contact plate 27 fixed in the path of said finger, the branch conductors 45 and 46 connecting said plunger and finger and conductor 43 and plate 27 respectively, and a local alarm circuit adapted to be energized upon the interruption of the normally closed relay circuit, substantially as and for the purpose set forth.

No. 63,540. Ice Tongs. (Tenailles à glace.)

Jacob Streity, Wendelen Zweng and Herman Springborn, assignees of Walter G. Stinchcomb, all of Marine City, Michigan, U.S.A., 2nd August, 1899; 6 years. (Filed 28th January, 1899.)

Claim.—1st. A grapple, comprising a handle having parallel pendent members, crossed jaws having slidable pivotal connections with the said pendent members, and a supplemental handle slidable on the main handle having bifurcated arms, pivotally connected to the jaws, substantially as shown and described. 2nd. An ice tong, comprising a U-shaped handle, a pair of crossed jaws, the upper ends of which have a slidable pivotal connection with the ends, and a supplemental handle having pivotal connection with the jaws at points inside their pivotal connection with the U-shaped handle, as set forth. 3rd. An improved tong, comprising in combination, a U-shaped handle having stud bolts at the ends of its side bars, grip jaws having their upper ends crossed but freely movable on each other, the upper extremities of such ends having elongated longitudinal slots engaging the handle stud bolts, and the supplemental