

grip, substantially as described. 2nd. In combination with the picker F, and double headed plunger, with means for operating them, the carrier grip pivoted in the forked end of the rod O, the bar Q, connected to the said rod and moving on the guide bar U, the wheel T, and belts R and S, connecting said wheel with the bar Q, substantially as described. 3rd. In combination with the picker F, and double headed plunger A, with means for operating them, the carrier grip pivoted in the forked end of the rod O, and means for reciprocating said rod, consisting of the bar Q, connected with its rear end moving on the guide bar U, the wheel T, secured to the shaft W, belts R, S, connecting said wheel with the bar Q, the quadrant x , also secured to the shaft W, the quadrant Y, meshing therewith, and the rod 2, eccentric 3, and shaft 4, substantially as and for the purpose set forth. 4th. In combination with the carrier grip N, pivoted in the forked end of rod O, the bar O formed on the end of said rod and moving on the guide bar U, the wheel T, belts R and S, connecting the wheel with the bar Q, and the bars b , with means for operating them, said means consisting of arms f , depending from a rod g , and having their lower ends pivotally connected to said bars, an arm i , carried by the rod g , a cam on the main shaft and connections between the said arm and main shaft, substantially as described. 5th. The carrier grip N, pivoted in the forked end of the rod O, means for reciprocating the rod, the notches n^1 , n^{11} , formed in the grip in the rear of the pivot point, and the plunger P, provided with spring p , substantially as and for the purpose set forth.

No. 41,152. Weighing Scale, Recorder and Register.
(*Balance à registre.*)

Robert McFarlane and Waldo E. Holmes, both of Minneapolis, Minnesota, U.S.A., 9th December, 1892; 6 years.

Claim. 1st. The combination, with a scale beam and means for applying the weight thereto, of a beam poise slidable on said beam, a registering wheel independently arranged with respect to said parts, and means whereby on the movement of the sliding weight said wheel is operated, substantially as described. 2nd. The combination, with the scale beam and the frame wherein the same is pivoted, of a beam poise, a registering device, a cord connected with said poise and with said registering device, whereby on the moving of said weight said device is operated, said device being immovable with respect to the beam, substantially as described. 3rd. The combination, with a pivoted scale beam, of sheave arranged at the ends thereof, a beam poise, a cord, belt or wire arranged on said sheaves or pulleys, said cord connected with said sliding weight, a gear in connection with the innermost pulley, a rack engaging the same, and a registering device to be operated by the movement of said rack, substantially as described. 4th. The combination, with the pivoted scale beam, and means for applying weight thereto, of sheaves arranged on said beam, an endless cord passing over and between the same, a beam poise arranged upon the beam and engaging said cord, wire or belt, a gear arranged in connection with the innermost sheave, a rack meshing therewith to be operated thereby, a registering wheel, a gear wheel to move therewith, said rack engaging the same, figures arranged on said registering wheel and means for taking impressions therefrom, substantially as described. 5th. The combination of the scale beam and the counterpoise thereof, with detachable counterpoise weights, a frame or bar whereon the same are stored when not in use on the counterpoise, a registering wheel, a slidable head to engage the end of the row of stored weights, and means in connection therewith for operating the registering wheel, substantially as described. 6th. The combination, with the beam and the counterpoise swung from the end thereof, of detachable weights adapted to be placed thereon, a bar or frame for storing said weights when not so in use, a rack having an end adapted to engage the end of the stored row of said weights, a registering wheel and a gear arranged in connection therewith to engage said rack, whereby on the movement of the rack said registering wheel is operated, means being provided in connection with said wheel for permanently indicating the weights registered thereby, substantially as described. 7th. The combination, with the beam pivotally supported in a suitable frame, of a counterpoise plate and rod therefor, detachable counterpoise weights, a stationary bar or frame therefor, a movable rack having an end to engage the same when on said frame, a registering wheel supported upon a suitable shaft, a gear wheel arranged in connection therewith and meshing with said movable rack, said rack provided with the end 54, and the finger lug 55, substantially as and for the purpose specified. 8th. The combination with the pivoted scale beam and the beam poise slidable thereon, with a counterpoise hung from the end of the beam, separable counterpoise weights therefor, a fixed frame adapted to receive said weights when not in use, a rack longitudinally slidable with respect to the row of weights thus stored, the head or end of said rack adapted to engage the foremost counterpoise weight in the frame, a registering wheel having figures indicating the units and adapted to be operated by the movement of said rack, sheaves or pulleys arranged at the ends of said beam, a cord belt or wire arranged upon the same and fixed on said beam poise and rack, a gear interposed between the same and the innermost sheave or pulley, a second registering wheel arranged to be operated by the movement of said second rack, said second registering wheel provided with figures to indicate fractions of a unit, and means for simultaneously printing from said wheels to record the total weight, substantially as described. 9th. The combination with

the beam and the counterpoise hung therefrom, of separable counterpoise weights, a stationary frame or bar whereon the same are adapted to be stored, a rack having a head or end to engage the end of the row of weights, a registering wheel adapted to be operated by the movement of said racks, sheaves on the beam, a cord, belt or wire passing over and between the same, the beam poise arranged on the bar and fixed to the cord, a second registering wheel and a rack adapted to operate the same and to be operated by the movement of said slidable weight communicated through said cord, belt or wire, substantially as described. 10th. The combination with the pivoted scale beam and the counterpoise arranged thereon, of the beam poise provided on the beam, an endless cord, belt or wire arranged in connection with said weight, a rack to be operated by the cord, an interposed gear, a shaft, a registering wheel yieldingly fixed to the same, a gear provided on said shaft and meshing with the lower part of said rack, means for holding said rack thereon, a stationary frame or rod, the counterpoise weights to be stored thereon, another rack slidably arranged with respect to the same, a second registering wheel arranged on a sleeve loosely provided on said shaft, and having a gear to engage the second rack, said second wheel yieldingly fixed on said sleeve, and a printing plate movably arranged with respect to said wheels, and means for forcing the same against the peripheries thereof, substantially as described. 11th. The combination with the beam 2, of the frame whereon the same is pivoted, the sheaves 22 and 23 arranged on opposite ends of the beams, the endless cord 24 passing over the same, the beam poise 13 arranged on the bar and whereon one side of the cord is fixed, the gear wheel 26, to move therewith, an idler gear 27 meshing therewith, the rack bar 28 engaging the same, the gear 30 arranged on the shaft journaled in standards, the lugged arm 31 guiding said bar 29, and the registering wheel to be operated by the movement of the rack 29, substantially as described. 12th. The combination with the pivoted beam and the registering wheels, the beam poise on said beam, the sliding rack 48 to engage the stored counterpoise weights, the printing plate 35, provided on the shaft 26, the pivoted lever 38, the treadle 40 linked thereto, and a spring for raising the same, substantially as described. 13th. The combination with the standards, of the shaft, with a registering wheel arranged thereon, an arm clamped thereon, springs arranged on the sides of said arms, and a pin on said wheel or disc and engaged by said spring, substantially as described. 14th. The combination of the beam 2, and the beam poise thereof with grooved sheaves 22 and 23 arranged thereon, and the latter provided with a spiral groove 45, the endless cord, wire or belt wound upon said sheaves, and a registering device to be operated thereby, substantially as described.

No. 41,153. Barbed Wire. (*Fil de fer barbelé.*)

John Drennan Curtis, Worcester, Massachusetts, U.S.A., 10th December, 1892; 6 years.

Claim. 1st. The combination with a strand of wire, of a four pointed wire barb, made of wire non-circular in cross section, having divided ends which form the barb, and a solid centre portion which is spirally wrapped around the wire strand, substantially as and for the purpose hereinbefore set forth. 2nd. The combination with a strand of wire, of a four pointed wire barb made of one piece of wire, having divided ends which form the barb points, and solid centre portion which is spirally wrapped around the wire strand, substantially as set forth.

No. 41,154. Method of Attaching Vehicle Springs.

(*Méthode d'assujettir les ressorts de voitures.*)

Malcolm Elwin Robb, Knowlton, Quebec, Canada, 10th December, 1892; 6 years.

Claim. 1st. The combination with a carriage or vehicle spring of the elongated hook C, formed either by part of the spring, bent over, or by the addition of a metal piece B, and the swiveled bearing piece or block D, retained in position by ears or lugs G or M, and the bearing piece or coupling R, rigidly secured to one end of a spring, substantially as and for the purpose hereinbefore set forth.

No. 41,155. Cleaner for Mucilage Brushes.

(*Nettoyeur de pinceau à mucilage.*)

Frederick Theophilus Aikins, Toronto, Ontario, Canada, 10th December, 1892; 6 years.

Claim. 1st. A strip of metal B, detachably connected to the neck of a bottle A, and having fingers C, extending from it, jaws D, being formed on the ends of the said fingers, which fingers are set so that the tension of their spring shall cause the jaws to press elastically towards each other, substantially as and for the purpose specified. 2nd. A strip of metal B, detachably connected to the neck of a bottle A, and having fingers C, extending from it, jaws D, being formed on the ends of said fingers, which fingers are set so as to leave a space between them and cause the jaws to press elastically towards each other, substantially as and for the purpose specified. 3rd. A strip of metal B, detachably connected to the neck of a bottle A, and having fingers C, extending from it, jaws D, being formed on the ends of the said fingers, the strip B, at its connection with the finger C, being set inwardly so as to bring the jaws B, squarely opposite to each other, substantially as and for the purpose specified.