

folded, as set forth. 6th. In a two-wheeled harvester, the combination, substantially as hereinbefore described, of the cutting apparatus, the bar or rod rigidly connected thereto at its inner shoe and projecting upwardly therefrom beneath the axle, and between the wheels of the machine, and means for vertically adjusting the opposite or upper end of said rod or bar for varying the height of cut, as set forth. 7th. The combination, substantially as hereinbefore described, of a rear side cut mowing machine frame, the pendent draft link having one or more holes for coupling with a whiffletree, the cutting apparatus and the rod or bar rigidly connected to said cutting apparatus at its inner shoe projecting forwardly and upwardly to the draft link and coupled thereto, as set forth, whereby the draft of the team is applied in a direct line from the pendent link to the inner shoe. 8th. The combination, substantially as hereinbefore described, of a rear side cut mowing machine frame, the vertically slotted pendent draft link, the cutting apparatus and a rod or bar rigidly connected to said cutting apparatus at its inner shoe, projecting forwardly and upwardly into the slot of the draft link and coupled thereto, as set forth, whereby the front end of said rod or bar is limited in its movements. 9th. The combination, substantially as hereinbefore described, of a rear side cut mowing machine frame, the vertically slotted pendent draft link, the cutting apparatus with its rod or bar rigidly connected thereto and projecting forwardly and upwardly into the slot of said link, and a draft hook extending from said link rearwardly along said rod and coupled thereto, as set forth, whereby the forward end of said rod can be freely raised or lowered, as set forth, for varying the height of cut. 10th. The combination, with the cutting apparatus, of lifting mechanism, substantially as described, adapted to first rock the cutting apparatus in its longitudinal axis, then lift it vertically while it maintains a practically horizontal position, and then fold it up sidewise, as set forth. 11th. The combination, with the shoe rod located between the wheels and beneath the axle of the machine and rigidly connected to the inner shoe of the cutting apparatus, and free to be lifted at its outer or forward end, of an adjustable support for said outer end for limiting the height of cut, substantially as described. 12th. The combination, substantially as hereinbefore described, of the cutting apparatus, the rotative rod or bar located between the axle and between the wheels of the machine and rigidly connected to the inner shoe and vertically adjusted at its outer or forward end, and a hand lever connected to said rod for lifting its outer end and varying the height of cut and also for lifting and folding the cutting apparatus, as set forth. 13th. In a harvester, the combination, substantially as hereinbefore described, of the cutting apparatus, the shoe rod, the hand lever for lifting the cutting apparatus, the jointed link pivoted to said lever and to said shoe rod, and the fulcrum for said link at the end of said lever, said link adapted to operate as a mere link during a portion of the movement of said lever, and then during further movement to operate as a lever by engagement with its fulcrum at the end of the hand lever, and thereby practically elongate said hand lever beyond its fulcrum. 14th. In a harvester, the combination of the hand lever for lifting the cutting apparatus, the complex link embodying a bar link serving in part as a link and in part as a prolongation of the hand lever, and a segment or quadrant notched to confine said hand lever when said link operates as a link and also when a part of said link serves as a lever, substantially as described. 15th. The combination, with the pendent portion B₁ of the frame, the cutting apparatus hinged thereto the shoe rod or bar and the stop *h* on said frame, which limits the upward movement of the cutting apparatus while in a practically horizontal position, substantially as described. 16th. The combination of the cutting apparatus and its rotative shoe rod rigidly connected thereto, the hand lever and the lever or arm on said rod linked to said hand lever, a stop for limiting the upward movement of said rod and a second stop for engaging with the lever arm on rod and thereby causing the latter to gradually rotate inwardly during the rising motion, substantially as described. 17th. The combination of the cutting apparatus and its rotative shoe rod rigidly connected thereto, the hand lever and the lever or arm on said rod linked to said hand lever, a stop for limiting the upward movement of said rod, and a second stop for engaging with the lever or arm on said rod and thereby limiting its inward rotation, substantially as described, when the cutting apparatus is in a folded position and also for inducing the initial outward rotation of said rod when lowered to drop the cutting apparatus from its folded to its working position, as set forth. 18th. The combination, of the rocking gear, the vibrating arm, the pendent portion of the frame and the bent swivelled rod *n* hinged at its inner or forward end to the frame upon a pivot bolt, and at its outer end swivelled within a cylindrical housing on top of said arm in a line at right angles to the line of said pivot bolt, substantially as and for the purpose described. 19th. The combination, with the cutting apparatus rocking gear and balance crank of a vibrating arm, the integral or jointless triangular truss *k* connected at its base to the hub and the periphery of the rocking gear and connected at its apex to the balance crank, substantially as described. 20th. The combination, with the cutting apparatus rocking gear and balance crank, of a vibrating arm consisting of the integral or jointless triangular truss connecting the rocking gear with the balance crank, and a second triangular truss provided with a ball head for connection with the cutting mechanism, substantially as described. 21st. The combination with the rocking gear and balance crank, of the skeletonized vibrating arm embodying the integral truss coupled to the hub of the gear and also to the balance crank and the second truss composed of said integral truss and the side plates projecting therefrom and the ball head to which they are bolted, substantially as described. 22nd. The combination, with the shoe rod and shafts or thills hinged to the machine, as described, of the cross brace connecting said shafts and a link suspended from said cross brace serving the double purpose of a draft link and a support for said shoe rod, substantially as described. 23rd. The combination, with the shaft or thill axle frame or wheels, of the pendent draft link having one or more holes for whiffletree connections at its lower end and the cutting apparatus coupled to said link above said whiffletree connection, substantially as described, whereby said link is fulcrumed at its point of coupling with the cutting apparatus and made to operate as a lever for enabling the draft of the team to oppose the lifting tendency of the cutting apparatus when in service, as set forth. 24th. The combination, with the shaft or thill hinged to the

frame sleeve, of the driver's seat mounted thereon and located centrally on the machine rearward of the axle and the foot stirrups also mounted on said thill or shaft, substantially as described. 25th. The detachable pendent frame piece, provided at its lower end with a hinge connection for union with the inner shoe of the cutting apparatus, and provided with the stop studs and the stud for mounting the lifting lever, substantially as described.

No. 21,503. Collar Button. (*Bouton de Col.*)

George Kremetz, New York, N.Y., U.S., 22nd April, 1885; 5 years.

Claim.—1st. A collar or sleeve button having a hollow head and stem, the said head stem and the base plate or back of the said button being shaped and made of a single continuous piece of sheet metal, substantially as herein shown and described. 2nd. A collar or sleeve button having a hollow stem formed on a base, a hollow head on the stem, the top and bottom layers of the head being pressed together to be in contact, and the edges of the head being bent to form a curved top surface for the head, the head, stem and base being formed of a single piece of sheet metal, substantially as herein shown and described.

No. 21,504. Military Water Bottle. (*Outre.*)

Peter B. Barnard, Hamilton, Ont., 22nd April, 1885; 5 years.

Claim.—1st. The combination of a water bottle A, made in two sections, with seam A, neck ring B, the stopper B with rubber B₁, provided with attachments D, buttons D₁ with strap rings *e*, the bar *f* with belt hook C, substantially as and for the purpose hereinbefore set forth. 2nd. In a water bottle, the combination of the canvas case A, provided with extended sides secured to the strap rings *e*, and with extended upright back with a belt hook C₁ secured thereto, and the overlap H to allow the case to extend so to receive the water bottle A and buttoned up with button H₁, substantially as and for the purpose hereinbefore set forth.

No. 21,505. Tobacco Pipe. (*Pipe.*)

Jacob Pfeiffer, Niagara Falls, N.Y., U.S., 22nd April, 1885; 5 years.

Claim.—A tobacco pipe adapted to be filled from the top, having a close fitting cover at the top of the bowl, and a small open tube projecting downward from the bottom, in combination with a tube forming a passage leading from a point near the top of the bowl, then down to near the bottom of the same, and from thence outward through the stem and mouth-piece, as and for the purposes described.

No. 21,506. Hoop Planing Machine.

(*Machine à Planer les Cercles.*)

Alexander F. Ward, Detroit, Mich., U.S., 22nd April, 1885; 5 years.

Claim.—1st. In a hoop-planing machine, a pressure foot provided with a toe loosely secured thereto, and adapt to adjust itself to hoops of different bevel, substantially as described. 2nd. A pressure-foot, provided with a self-adjusting toe secured in a socket of the pressure-foot by means of the round shank *a*, substantially as set forth. 3rd. A pressure-foot, provided with a self-adjusting toe, and means such as the recess *f* and pin *c* for preventing accidental displacement, substantially as described. 4th. In a hoop-planing machine, the bed E, having lateral flanges *g* arranged to secure the bed adjustably and removably to the underside of the stationary part of the bed, substantially as described. 5th. The bed E, provided upon its face with under-cut recesses filled in with babbit metal, substantially as specified.

No. 21,507. Button. (*Bouton.*)

Dilman B. Shantz, Berlin, Ont., 22nd April, 1885; 5 years.

Claim.—1st. A button consisting of a ring A, having flange B, and rim C, inserted disk D, having a covering material E, dished plate F and inserted concavo-convex disk G covered with a material I, as set forth. 2nd. A button consisting of a ring A, having flange B, and rim C, inserted ornamental front disk G, covered with a material I, as set forth.

No. 21,508. Vehicle. (*Voiture.*)

John H. Tiffany, Dimock, Penn., U.S., 22nd April, 1885; 5 years.

Claim.—1st. In a vehicle, the combination of a set of wheels, with runners which are adapted to co-operate with the wheels to sustain the load when the vehicle is in motion, substantially as described. 2nd. In a vehicle, the combination of a set of larger wheels, the smaller wheels, the runners and the flexible tongue adapted to each other, substantially in the manner and for the purposes set forth. 3rd. In a vehicle of the character described, the combination, with the body of the vehicle, of the large central wheels the bent swinging axle secured to the bottom of said body by supports so that the said axle or one part will roll therein, and swing under the body, the jointed tongue and the smaller wheels, as and for the purposes described. 4th. The combination, in a vehicle, of the flexible tongue with the body, the large central wheels and the smaller wheels, substantially as described.

No. 21,509. Curtain Fixture.

(*Bâton de Rideau.*)

John E. Wyant and Eff M. Wyant, Waterloo, Iowa, U.S., 22nd April 1885; 5 years.

Claim.—1st. The combination, with a curtain roll, of one or more metallic clamping plates adapted to secure the curtain to the roll without the use of other fastening devices, substantially as herein described. 2nd. The means described for securing curtains to rolls, which consists of metallic clamping plates, adapted to engage the