

C hinged together at the sides and ends, as shown, and provided with hinge locks β and eye-bolts α , α , removably attached sheet B having a foot section and two head sections, the latter adapted to be united or separated, and having respectively eyes p and stiffening rods p_1 , the hooked operating cords and the turn-shaft, whereby the head-sections of the sheet may be lifted singly or together independently of the frame, or by properly locking or unlocking the hinges, the whole sheet either longitudinal half, or the foot-section may be raised in connection with the frame, as set forth. 3rd. The sheet B, composed of sections c , rubber portions β and sections α , α , the latter detachable from the frame, and each other, and having eyes p and stiffening-rods p_1 , combined with the lock-hinged frame C having screw eyes α , the hooked cords m_2 , m_3 , the longitudinally extensible shaft, having a turn-wheel pulley, a ratchet and pawl, the tripods h , h and the vertically extensible standards D , D braced by the said tripods h , h , as set forth.

No. 26,853. Knife Sharpener.

(*Rémouleur de couteaux.*)

Frank J. Reinhold, Detroit, Mich., U.S., 4th June, 1887; 5 years.

Claim.—1st. In a knife sharpener, the combination, with an inclosing case of sharpening rollers mounted therein, one or more of said rollers having a yielding engagement in the case, substantially as described. 2nd. In a knife sharpener, the combination, with a case, of sharpening rollers, having a lateral yielding engagement therewith, and a spring acting upon said rollers to restore them to normal position and cause the rotation of said rolls, substantially as described. 3rd. The combination, with a case, of sharpening rollers provided with elongated bearings and springs acting upon said rollers, the construction being such that when the blade is engaged with the rollers, they may yield to a limited extent, and be restored to normal position when the blade is removed, said rollers being partially rotated by said operation, substantially as described. 4th. The combination, with a case, of sharpening rollers having a yielding engagement therewith, and friction-rolls E, E, engaged therewith, substantially as and for the purpose described. 5th. The combination, with a case, of sharpening rollers having a yielding engagement therewith, friction-rolls E, E, located adjacent to said sharpening rollers, and springs acting upon said sharpening rollers, substantially as and for the purpose described.

No. 26,854. Manufacture of Trunks, etc., from Chemically Treated Fibre.

(*Fabrication des coffres, etc., de fibres traitées par un procédé chimique.*)

Henry W. Morrow, Wilmington, Del., U.S., 4th June, 1887; 5 years.

Claim.—1st. The mode herein described of making from chemically-treated fibrous material a shell for the body and lid of a trunk or like article, said mode consisting in first making a tube of said material, then applying this tube to a former of the proper shape for the body and lid, then shrinking the tube upon said former, then removing the latter, inserting and securing the end pieces of the trunk and finally severing the shell into body and lid portions, all substantially as specified. 2nd. The mode herein described, of making from chemically-treated fibrous material a trunk or like article, said mode consisting in first making a tube of said material, then shrinking this tube over a former to produce a shell of proper shape for the body and lid, then removing the former and severing the shell, all substantially as specified. 3rd. The mode described of making from chemically-treated fibrous material a lined shell for a trunk or like article, said mode consisting in first making a tube of said material, and then shrinking said tube over a box which is to form the lining, all substantially as specified. 4th. A trunk body, composed of chemically-treated fibrous material, and having end pieces with flanges along the bottom and sides, and a central portion constituting in one piece the bottom and sides of the body, and having end flanges also extending along the bottom and sides and overlapping the end pieces, all substantially as specified. 5th. A trunk lid of chemically-treated fibrous material, having end pieces with flanges along the top and sides, and a central portion constituting in one piece the top and sides of the lid, and having end flanges also extending along the top and sides and overlapping the end pieces, all substantially as specified.

No. 26,855. Horse Hay-Rake.

(*Râteau à cheval.*)

George K. Schauer and Christian A. Herr, Osborn, Ohio, U. S., 4th June, 1887; 5 years.

Claim.—1st. A vehicle rake, having the wheels loosely mounted on the hollow iron axle, the tines secured on the axle, a frame with revolving carrying rollers fixed on one wheel, and a lever pivoted on a fixed piece of the axle, and provided with a cam projection, and operating mechanism whereby said cam is thrown into and out of the path of said rollers, all combined substantially as herein shown and described. 2nd. In a rake, the combination, with an axle or shaft on which tines are secured, of wheels mounted loosely on the ends of the axle, a frame on the hub of one wheel, which frame carries rollers, a disk secured on the axle adjacent to said frame, a lever pivoted on said disk and a spring for pressing the lever from the disk, and operating mechanism for holding said lever against the spring out of the path of said rollers, substantially as herein shown and described. 3rd. In a rake, the combination, with an axle on which tines are secured, of wheels mounted loosely on the ends of the axle, a frame on the hub of one of the wheels, and carrying rollers, a disk on the axle, a lever pivoted on the disk, a spring for pressing the lever from the disk in different positions, substantially as herein shown and described. 4th. In a rake, the combination, with an axle on which tines are secured, of wheels mounted loosely on the axle, the frame E on one wheel, the rollers E_2 on the frame, the disk F on the axle, the lever J pivoted on the same, a spring for pressing the

lever from the disk, and of the pivoted arm N provided with the lug O, substantially as herein shown and described. 5th. In a rake, the combination, with an axle on which tines are secured, of wheels mounted loosely on said axle, a frame on the hub of one of the wheels, rollers on said frame, a disk fixed on the axle, a lever provided with a cam projection pivoted on the disk, a spring for pressing the lever from the disk, and of a pivoted arm for locking said lever in place, substantially as herein shown and described. 6th. In a rake, the combination, with the axle carrying tines, of wheels mounted loosely on the axle, a frame on one wheel, rollers on the frame, a disk on the axle, the lever J pivoted on the disk and provided with a cam projection, the arm N for locking the lever J in place, and of a crank-shaft on the frame of the rake connected with the arm N, and provided with devices for operating it, substantially as herein shown and described.

No. 26,856. Paper Bag. (*Sac de papier.*)

Kilgour Bros., Toronto, Ont. (assignees of William H. Honiss, Hartford, Conn., U.S.), 4th June, 1887; 5 years.

Claim.—A paper bag, the square bottom of which has the flaps M and O folded down upon the middle quadrangular portion of the diamond L, and in which the two side folds of that diamond lap over each other entirely across that middle quadrangular portion, and in which one of the flaps O and M has the recess cut away from the inner thickness thereof, and which bag has the thumb-lip I made from the paper cut away from another paper bag to form a recess P therein, all substantially as shown and described.

No. 26,857. Flower Pot. (*Pot à fleurs.*)

Sarah L. Hunter and Aaron Bales, Little Rock, Ks., U. S., 4th June, 1887; 5 years.

Claim.—A flower-pot, formed of the outer sheet metal vessel α , having a spout F and apertures f and G near its upper edge, and the inner smaller vessel α flared outwardly at its lower end, and there secured to the inner surface of the outer vessel and the outward and downward bent flange α_3 around the upper edge of said inner vessel, overlapping and secured to the upper edge of the outer vessel, the lower part of the inner vessel having apertures C communicating with the water space B formed between the said vessels, substantially as set forth.

No. 26,858. Grain Binder. (*Lieuse à grains.*)

The Noxon Bros. Manufacturing Company, Ingersoll, Ont. (assignee of John F. Seiberling, Akron, Ohio, U. S.), 4th June, 1887; 5 years.

Claim.—1st. The combination, with the cam wheel, of the knotted shaft crossing the plane of the knotted-actuating shaft and the face of said wheel, and inclined laterally in relation to and actuated by the latter, and the needle arranged to pass between said knotted-shaft and the cam-wheel, substantially as described. 2nd. The spiral segmental gear on the cam-wheel, in combination with the knotted-shaft, crossing the plane of the cam-wheel shaft and inclined laterally to the face of the cam-wheel, and having its actuating pinion located on one side of said cam-wheel shaft and the knotted on the opposite side thereof, substantially as and for the purpose described. 3rd. The combination, with the cam wheel and the shaft supporting and actuating it, of the knotted-shaft having its actuating-pinion on one end and the knotted-hook on the other, and arranged in close proximity to and crossing the plane of the cam-wheel shaft in laterally-inclined relation to the face of the cam-wheel and the spiral segmental gear on the cam-wheel for actuating said knotted-shaft, substantially as described. 4th. The jointed knotted-shaft, in combination with the vibrating hinged arm or frame E, carrying the swinging end or part of said shaft, a cam for opening the knotted-jaw, and a knife for severing the cord, and mechanism, substantially as described, for vibrating said arm or frame and the hinged part of the knotted-shaft journaled thereon, substantially as described. 5th. The combination of the cam-wheel A_1 , the shaft D_1 and tubular shaft or sleeve D_2 mounted and turning on said shaft D_1 , the vibrating arm or frame E, knotted B_2 and cord-disc G, and their supporting and actuating devices, substantially as described, whereby said knotted and disc are both vibrated from the same cam. 6th. The rock shaft D_1 and rocking sleeve D_2 mounted thereon, both connected with and adapted to be operated by the same cam, in combination with the cord-holder arm supported by and vibrating on said shaft, the swinging arm carrying the knotted, and the knife for severing the cord, and mechanism, substantially as described, for actuating said cord-holder and knotted-carrying arms. 7th. The combination of the cord-holding disc, its actuating pawl g_2 , the connecting-rod H and the spring H_2 arranged to be disengaged from said pawl, when the latter is raised in operating the disc, and to be brought into contact therewith when the pawl is depressed, substantially as described. 8th. The combination of the jointed knotted-shaft and the hinged arm or frame supporting the swinging end of said shaft, the joint in the shaft and the frame pivot being arranged to coincide, substantially as described. 9th. The swinging cord-holder arm or frame, provided with the fork or arms d_2 and d_3 and the cam on the cam-wheel shaft for actuating the same, in combination with the hinged arm of the knotted-frame, carrying the hinged end of the knotted-shaft knotted, and means, substantially as described, for vibrating said hinged arm of the knotted-frame and knotted.

No. 26,859. Bayonet. (*Baïonnette.*)

Conrad Schills and Lewis Stucker, Canton, Ohio, U. S., 4th June, 1887; 5 years.

Claim.—The combination of the sword or bayonet A, having formed integral therewith, the shank B and the head α , the hilt C provided with the apertures B and D, and the recess c , the lever E pivotally attached to the hilt C, the spring F, the handle or cheek-pieces G and the projection or sight d , substantially as and for the purpose specified.