No. 19,307. Reed and Hat-Sweat.

(Jone et Bourrelet de Chapeau.)

George S. Bracher, New York, N.Y., U.S., 12th May, 1884; 5 years.

Claim.—1st. As a new article of manufacture, a reed of rattan, or Claim.—1st. As a new article of manufacture, a reed of rattan, or hardsons material, impregnated with a filling material, and surface pardened by compression and friction, substantially as and for the qualities and appearance, for hat-sweats and oher purposes, consisting in colouring, filling, compressing and surface-finishing, substantially as set forth. 3rd. A hat-sweat provided with a reed, dressed said hat-sweat without a coating of varnish, and attached to the edge of hat-sweat without a covering, substantially as set forth, 4th. A variant provided with a reed dressed and finished with a coating of the remaining without covering except the enclosing stitches, whereby it is much state of the covering except the enclosing stitches, whereby it is much state of the state of varnish, without covering except the enclosing stitches, whereby it is united to the sweat, substantially as hereinbefore set forth. 5th. A hat-sweat provided with a reed a without covering, and the back tially as and for the purposes hereinbefore set forth.

No. 19,308. Apparatus for Cutting Pile Fabrics. (Appareil pour Tailler les Tissus à Poil.)

Charles Coupland, Seymour, Ct., U.S., 12th May, 1884; 5 years. with its upper edge substantially in line with the space a between bars, supplemental tension bars h, bi, bi, etc., arranged construction bars bars, as upplemental tension bars h, bi, bi, etc., arranged to rotate cointars, as supplemental tension bars h, bi, bi, etc., arranged to rotate cointars, as series or system of circular cutters arranged to rotate cointars, as series or system of circular cutters arranged to rotate cointars, as series of rollers, and so rotate with the space a, means for operating said cutters of rollers, and substantially as and for the purpose dering set forth. 2nd. The combination, with straining bars and to, and between the same, of a bar carrying a series or system of circular cutters D, extending substantially the width of the fabric to be said bars, and gears or toothed pinions, attached to the spindles of binions aforesaid, and means for transmitting a reciprocating motion between cutter carrying bar, all substantially as and for the purpose cular cutter carrying bar, all substantially as and for the purpose cular cutter carrying bar, all substantially as and for the purpose cular cutter carrying bar, all substantially as and for the purpose cular cutter carrying bar, all substantially as and for the purpose cular cutter carrying bar, all substantially as and for the purpose cular cutter carrying bar, all substantially as and for the purpose cular cutter carrying bar, all substantially as and for the purpose cular cutter control of said shell or socket, a gear or pinion attached to the lower end of driv pindle projected through the stuffing box aforesaid, means for relation the said pinion, and a bar Gi for carrying the cutter in due and for the double pile fabric to be severed, all substantially as the middle of such cylindrical part, with a shell or socket cylinarial as to the lower, and tapering as to the upper part of its interior, and a bar Gi for carrying the cutter on the spindle in due relation the double pile fabric to be severed, all substantially as and for the purpose pose deans for rotating said shaft, substantially as and for the purhand as pindle tapered at its upper part, with a shell or socket combination of a circular cutter D posed of an internally cylindrical flanged sleeve II, and a cap III havanged fan internally cylindrical flanged sleeve II, and a cap III havanged to carry the cutter in due relation with the double pile fabric forth. 7th. The combination of a cutter and its carrying spindle circumferentially recessed at or near the middle of its said cylindrical as to its lower portion, drical portion and having the thin or thread-like spiral groove is above call below and tapered above, and a bar (I for carrying the cutter on all substantially as and for the purpose herein set forth. 8th. The combination of a cutter and its carrying spindle in due relation with the double pile fabric to be severed, combination of a cutter and its carrying spindle I, a shell or socket carrying the said shell or socket, and a bolt or pin T4, extended transformed in one side of the shell or socket, whereby provision is made resely through the bearing portion with the double pile fabric to be severed, combination of a cutter and its carrying spindle I, a shell or socket carrying the said shell or socket, whereby provision is made resely through the bearing portion thereof, a bar (If for supporting and resely through the bearing portion with the double pile fabric to be severed all substantially as and for the purpose herein set forth. 9th. The as to its upper portion, provided at or near the centre of its cylindriases with a circumferential recess, and having at its extremity a socket thread so with a circumferential recess, and having at its extremity as socket thread so with a circumferential recess, and having at its extremity as socket thread so its pile fabric to be severed and the spindle, an oil feeding pipe r, arranged coincident the circumferential recess of the spindle, a bar (I, for carrying severed lar cutter in due relation with the double pile fabric to be relation of tating said shaft, a collar k fast upon the shaft n, cheeks K1 and the bracket G, depending from the bar G1, substantially as and for the purpose herein set forth. 11th. The combination, substantially as described, of a series or system of sharpening devices, corresponding in number with the cutter, with a series or system of circular cutters extending substantially the width of the fabric. and a bar arranged to carry the said cutters in due relation with the double pile fabric to be severed, and means for operating the said cutters, all substantially as and for the purpose herein set forth. 12th. The combination, with a reciprocating bar G1 and the circular cutters carried on said bar G1, in due relation to the double pile fabric to be severed, of a shaft supported in suitable bearings upon said bur G1, sharpening devices provided on said shaft, and which, by the rotation of the said shaft, are brought at intervals upon the circumferential or edge portions of the rotary cutters, and means for actuating the said shaft, the cutters and the bar G1, all substantially as and for the purpose herein set forth. 13th. The combination, with the reciprocating bar G1 and the circular cutters carried by said bar, in due relation with the double pile fabric to be severed, of two shafts K2 and K3 supported in bearings upon the said bar G1, means whereby said shafts are geared to gether for simultaneous rotation in opposite directions, each shaft being provided with sharpening devices, which, by the rotation of the two shafts, are brought at intervals upon the opposite upper and lower edge portions or edges of the rotary cutters, and means for actuating the cutters, the bar G1 and the shafts K2 and K3, all substantially as and for the purpose herein set forth. 14th. The combination, with the bar G1 means for reciprocating said bar, the cutters carried by said bar and means for rotating the same, of the standards u, and the two parallel shafts K2 and K3, the latter having its end projected and formed with a longitudinal spline and for the purpose nerein set forth. 15th. The combination, with circular cutters and means for rotating said blocks, shafts carrying said blocks and means for rotating said shafts, all substantially as and for the purpose herein set forth. 16th. The combination, with circular cutters arranged to act in due relation with the double pile fabric to be severed, of sharpening devices composed of an adjustable block b*, an adjusting screw bolt f*, a spring K*, an arc-shaped sharpening block m*, and a shaft carrying the said parts and arranged in relation with the cutters to bring the sharpening block in contact with the cutters during a portion of the revolution of said shaft, means for actuating said shaft and the cutters, and means for transmitting movement from one to the other of the shafts K2, K3, all substantially as and for the purpose herein set forth. 17th. The combination, with a circular cutter and its spindle, means for operating said shaft, and means for actuating said shaft, all substantially as and for the purpose herein set forth. 18th. The combination with the block b*, spring K*, block m*, shaft K3, means for connecting blocks b* to the said shaft, and means for actuating said shaft, all substantially as and for the purpose herein set forth. 18th. The combination, with circular cutters arranged to act in due relation with the double pile fabric to be severed, of a shaft arranged parallel with said cutters and radially bored to receive bolts f*, the said bolts f* constructed with flanges g*, and squared ends f*, blocks b*, adjustable by means of the bolts f*, are-shaped sharpening block m* connected with the blocks f* by bearing against the flanges of the bolts f* and means for actuating the cutters and shaft, all substantially as and for the purpose herein set forth. 19th. The combination of the following elements, to wit: straining bars, across which the parts of the double pile fabric may be strained in opposite directions, rolls arranged to draw under tension the said fabrics across the said st lowing elements, to wit: straining bars, across which the parts of the double pile fabric may be drawn in opposite directions, rolls for drawing said parts in opposite directions across said bars, tension bars for resisting the traction of the aforesaid rolls to duly strain the double resisting the traction of the aforesaid rolls to duly strain the double pile fabric as it is drawn over the straining bars, a series or system of circular cutters, extending substantially the width of the fabric, earried by spindles of length greater than the diameter of the cutters, and means, substantially as described, for actuating the said parts in unison, substantially as and for the purpose herein set forth. 21st. The combination of the following elements, to wit: straining bars, across which the parts of the double pile fabric may be strained in opposite directions, to present the pile under tension to the action of the cutters, as series or system of circular cut ers provided with gears for driving the same with a positive or non-slipping motion, sharpening devices for maintaining uniformly keen edges upon the said cutters, a bar arranged to carry the said cutters and gears, and means, substantially as described, for actuating the said parts in unison, substantially as and for the purpose herein set forth. 22nd. The combination of the following elements, to wit: straining bars, across which the parts of the double pile fabric may be drawn in opposite directions, means, substantially as described, for carrying or adjusting the space between the said straining bars, a series or system of directions, means, substantially as described, for carrying or adjusting the space between the said straining bars, a series or system of circular cutters extending substantially the width of the fabric arranged opposite, and parallel with the centre of said space, means, substantially as described, for straining the parts of the double pile fabric in opposite directions across the straining bars, and means, substantially as described for simultaneously rotating the cutters, each upon its own axis, and reciprocating said cutters as a series or system, all substantially as and for the purpose herein set forth. 23rd. The combination of straining bars A. Al, with vertical guides for controlling the vertical movement thereof, means, substantially as described, for directing the vertical movement thereof, means, substantially as described, for adjusting and retaining the said straining bars at varied distances from each other as required by the exig-