

No. 28,585. Wire Fabric Machine.*(Machine à toile métallique.)*

Alva L. S. Kitzelman, Ridgeville, Ind., U. S., 1st March, 1883; 5 years.

Claim.—1st. In a wire fabric machine, a series of sectional twistors, each of which comprises a central section for carrying a warp wire and having rotary motion imparted thereto, and the shifting sections for carrying the weft wire and receiving rotary motion from the central section to form the twist, substantially as and for the purpose herein described. 2nd. In a wire fabric machine, the combination of a series of sectional twistors geared together for simultaneous rotation, and each comprising a central portion movable on its axis, and side portions capable of a compound movement, that of rotation, of their axis, and of a shifting longitudinal movement, substantially as described for the purpose set forth. 3rd. In a wire fabric machine, the combination of a series of sectional twistors comprising the central section having rotary movement imparted thereto, to rotate the same on its axis only, the shifting side sections adapted to align with the central sections to be rotated thereby, and mechanism for shifting the said side sections, to cause the side section of one twistor to coincide with the central section of the adjacent twistor, substantially as described for the purpose set forth. 4th. In a wire fabric machine, the combination, with the series of sectional twistors, of the shifting frames carrying the movable sections of the twistors, the central section of the twistors being held from longitudinal movement during the shifting of the frames, and the side sections being carried by the frames to cross the wires, the side sections being rotated by the central sections, substantially as described for the purpose set forth. 5th. In a wire fabric machine, the combination, with the sectional twistors comprising the central sections capable of rotating movement on their axis only, and the side sections having longitudinal movement and rotated by the central sections of the shifting frames carrying the said side sections, which are capable of free rotation thereon, substantially as described for the purpose set forth. 6th. In a wire fabric machine, the combination of the sectional twistors comprising the central section having the projecting heads, and the side sections fitted against the central section, and the sliding frames in which the side sections are carried and are capable of free rotation, substantially as described for the purpose set forth. 7th. In a wire fabric machine, the sectional twistors comprising the central and side sections movable with respect to each other, the sliding frames movable in opposite directions simultaneously and carrying the side sections therewith, and means for shifting the said frames, substantially as described for the purpose set forth. 8th. In a wire fabric machine, the sectional twistors comprising the central and side sections, in combination with the sliding frames having the recesses in which the side sections of the twistors are fitted, and a lever connected with the slides for moving them in opposite directions simultaneously, substantially as described. 9th. In a wire fabric machine, the series of sectional twistors comprising the central and side sections, the central section of each twistor being geared to the twistor adjacent thereto for simultaneous operation, substantially as described for the purpose set forth. 10th. In a wire fabric machine, the combination of a series of twistors geared directly together for simultaneous operation, and each comprising a central section and the side section, each side section carrying a spool or reel for the wire, substantially as described for the purpose set forth. 11th. In a wire fabric machine, a series of twistors connected for simultaneous operation, and each consisting of a central section and the side section, in combination with the spools carried by the side section, the central section of each twistor being provided with a longitudinal opening for the passage therethrough of the warp wire, substantially as described. 12th. In a wire fabric machine, the combination of a carrying frame, the sliding frames thereon, the sectional twistors having the stationary central section of the side sections fitted to the sliding frames and means for moving the carrying frame with a stop-by-stop motion, substantially as described for the purpose set forth. 13th. The combination of a series of twistors geared directly together, and each consisting of a central section capable of rotation of its axis only, and the side sections, the oppositely movable slides in which the side sections are fitted, the spools carried by the side sections, and a lever for shifting the slides simultaneously, substantially as described. 14th. The combination of a series of sectional twistors, each consisting of a central section having the projecting heads and the side sections in contact with the central section, and having the segmental heads with their flat sides in contact with the heads of the central sections, the said heads of the central and side sections forming a complete circle when the sections are placed together side by side, substantially as described for the purpose set forth. 15th. In a wire fabric machine, the combination of a series of rotary twistors geared directly together for simultaneous operation, each twistor having a central section capable of rotary movement only, and two side sections, which are capable of a shifting movement independently of the central section in opposite directions simultaneously, whereby the said shifting sections of the twistor are adjusted to register with the central sections of twistors on opposite sides of the same, substantially as described for the purpose set forth. 16th. In a wire fabric machine, the combination of a series of rotary twistors geared together for simultaneous operation, each twistor comprising a central section capable of rotation on its axis only, and the shifting sections arranged on opposite sides of the central section, each side section having segmental heads which impinge upon the central section when the twistor is rotated, substantially as described for the purpose set forth. 17th. In a wire fabric machine, the combination of a series of rotary twistors, each of which consists of two shifting sections capable of movement in opposite directions simultaneously, and a central section having rotary movement imparted thereto and interposed between the shifting sections to impinge upon the latter, when they align therewith and rotate the same, substantially as described. 18th. In a wire fabric machine, the combination of a series of rotary twistors, each of which consists of a central section held from endwise movement and capable of rotation on its axis only, and the side sections capable of shifting movement in opposite directions simultaneously, the side section of one twistor being arranged on opposite sides of the central section thereof and impinging upon the latter to be rotated on their axis therewith, the twistors being capable of rotary

movement only when the shifting side sections thereof are in line with the central section, substantially as described for the purpose set forth. 19th. In a wire fabric machine, the combination of a series of rotary twistors, each twistor comprising the shifting side sections provided with the segmental heads through which the warp wires are to be passed, and the central section disposed between the side sections and held from shifting movement, the central sections of the series of twistors being geared directly together and impinging upon the side sections when the latter are in line therewith, to rotate the said side sections, substantially as described for the purpose set forth. 20th. In a wire fabric machine, a series of sectional twistors, each comprising a central section, the central sections being geared together to be simultaneously rotated on their axis, and the shifting side sections adapted to align with the central sections to be rotated therewith, substantially as described for the purpose set forth.

No 28,586. Fanning Mill. (Turare-embleur.)

Robert K. Flooter, Chatham, Ont., 1st March, 1883. 5 years.

Claim.—1st. In a fanning mill, the combination and arrangement of the deflecting board I, with the air chamber N, fans F, F, upper riddle R, smut board J and hopper K, said deflecting board I being arranged to conduct the air blast above the upper riddle and smut board, substantially as shown and described and for the purpose specified. 2nd. In a fanning mill, the combination and arrangement of the deflecting board I, with the air chamber N, fans F, F, upper riddle R, smut board J, hopper K, having valve V, shoe S, and hangers H, said deflecting board I being arranged to conduct the air blast above the upper riddle R and smut board J, substantially as shown and described and for the purpose specified. 3rd. In a fanning mill, the combination of the roller x, bearings z, serrated plate y and hinged board x, with the shoe s, hangers H, screens L, L, pins U, crank shaft A and connecting rod C, substantially as shown and described and for the purpose specified.

No. 28,587. Horse Collar. (Collier de cheval.)

Carl Block, Merrill, Wis., U.S., 1st March, 1883; 5 years.

Claim.—As an improved article of manufacture, a horse-collar composed of two sections formed of wood, having suitable fastening devices for their lower ends, the metallic face-plates on the lower portions thereof, the martingale loop secured to the lower end of one of the sections, the inner and outer plates C, D, the posts having apertures in their outer ends, and their inner ends threaded, and the bolts in the outer ends of the posts, substantially as specified.

No. 28,588. Meat Chopper. (Mache viande.)

John R. Philp, Toronto, Ont., 1st March, 1883; 5 years.

Claim.—A meat chopper constructed with five steel knives, less or more, secured in slots in the under edge of the cross-bars D or fingers d, by being closely fitted therein and soldered, substantially as shown and described.

No. 28,589. Railway Signal.*(Signal de chemin de fer.)*

John W. Harkom, Richmond, Que., 1st March, 1883; 5 years.

Claim.—1st. The combination, with the bar of a railway crossing gate, having a swinging lantern attached thereto, of a shield adapted to obscure said lantern on two of its sides, for the purpose set forth. 2nd. The combination, with the bar of a railway crossing gate, of a shield affixed thereto and having two wings, a lantern supported between said wings, and bearings to which said lantern is pivoted, substantially as and for the purposes described. 3rd. The combination, with the gate bar A, of the shield C having two wings C, C, strap D and a lantern pivoted to said shield, substantially as and for the purposes set forth.

No. 28,590. Adaptation to Cigars, Cigarettes, etc. (Disposition aux cigares, cigarettes, etc.)

Heinrich F. Riedel, Dresden, Germany, 1st March, 1883, 5 years.

Claim.—1st. A cover or wrapper adapted to serve as a case or carrier for a cigar or a cigarette during transport, and also as a mouth-piece for holding a cigar or cigarette whilst it is being smoked, substantially as described. 2nd. A cover or wrapper adapted to serve as a case or carrier for a cigar or a cigarette during transport, said case or cover having a contracted part at one end for holding a cigar or cigarette, whilst it is being smoked, substantially as described. 3rd. A cover or wrapper, serving as a case or carrier for a cigar or cigarette and as a mouth-piece, and comprising a tube having a contracted part of conoidal form at one end, substantially as described for the purpose specified. 4th. A cover or wrapper, adapted as a case or carrier for a cigar or cigarette and as a mouth-piece, formed with a contracted part at one end, and with a bent part or strip that acts as a spring to retain a cigar or cigarette within said cover or wrapper during transport, as a stop or abutment for the inner end of a cigar or cigarette, when the same is being smoked, substantially as described and for the purpose set forth. 5th. A cover or wrapper for a cigar or cigarette, comprising a tubular part A of uniform diameter, and a conoidal or contracted part B, substantially as described and for the purpose set forth. 6th. A cover or wrapper for a cigar or cigarette, comprising a tubular part A of uniform diameter, a conoidal or contracted part B and a bent strip A', substantially as described for the purpose set forth. 7th. A cover or wrapper formed internally with a contracted part, in combination with a cigar or cigarette formed with an enlarged end and adapted for use with said cover or wrapper, said contracted part being of a form corresponding with the enlarged end of said cigar or cigarette, substantially as described.