Claim---lst. The process of preparing hygienic food by desiccating, hulling and crushing the grains of cereals. 2nd. A hygienic food prepared from cereal grains by torrefaction, hulling and crushing

No. 16,662. Improvements in Screw Cutting Machines. (Perfectionnements aux machines à fileter les vis.)

Harrison H. Taylor, Detroit, Mich., U.S., 12th April 1883; for 5 years.

Harrison H. Taylor, Detroit, Mich., U.S., 12th April 1883; for 5 years.
Chaim.—1st. The combination, with the milling tool and the threading die of a sorew cutting machine, of the longitudinally reciprocating bed, the transversely reciprocating carriage mounted in ways on said bed, the transversely reciprocating carriage mounted in ways on said bed, the transversely reciprocating carriage mounted in ways on said bed, the transversely reciprocating the head mounted on, and moving with said carriage and provided with blank holding jaws and mechanism for rotating the head mounted on and moving with said carriage and provided with blank holding jaws, when they face the dies, and mounentarily opening said jaws, when they face the dies, and mounentarily opening such approximation of the longitudally reciprocating bed, the transversely adjustable carriage, the rotatable head arried by a shaft mounted in bearings on the carriage and provided with pairs of blank holding jaws normally held closed by springs, a lever connected with the said shaft for rotating it and the head, and devices for holding one pair of jaws in a closed position, when they face the dies, and momentarily opening such pair of jaws, when moved away from the die. 3rd. The combination of the rotatable head -, the pairs of jaws L pivoted to said head and each provided with a projection s. 4th. The combination of the rotatable head -, the projection and a serve weuting die, both arranged in the same horizontal plane, a rotatable head provided with opening and closing jaws and yournalled in a carriage which is capable of transverse reciprocations on a lengitudinally reciprocating well, said head moving in the same horizontal plane as the milling tool and serve weuting die. 6th. The combination of the following devices, to wit : a milling to with set serverse rock shaft I, connecting with rojections s thereon, and pivots on a lengitudinally reciprocating bed. St. The combination of the same horizontal plane as the milling tool and server cutting

No. 16,663. Improvements on Horse Rakes.

(Perfectionnements aux râteaux à cheval.)

Hiram Myers, Springfield, Ohio, U. S., 12th April 1883; for 15 years. Casim. In Just 5, optimized with only of 15, the head or axis of 15 years. Casim. Is. The combination, with the rake head or axis $F_{\rm s}$ of the teeth L formed with loops N, and the strip o passing through said loops and bolted to the rake head. 2nd. The combination of the rake heads or axis F with pawls a pivoted in the flanges c, the spiral springs nn, the oscillating rod H having on its ends the paws or levers the paws or levers e, the lever g and the spring pressing plate j.

No. 16,664. Improvements in Milking Pails. (Perfectionnements aux seaux à lait.)

Arza C. Tracy, Mitchellville, Iowa, U.S., 12th April 1883; for 5 years. Claim.—A combination wire and cloth strainer arranged with the flanges b c of a milk pail cover.

No. 16,665. Improvements on Thrashing Machines. (Perfectionnements aux machines à battre.)

Nathaniel Burkholder, Cherrywood, Ont., 12th April, 1883; for 5 years.

years. Claim.-Ist. In a thrashing machine in which the shoe has a longi-tudinal shaking movement imparted to it, the combination of a tail-ing spout situated in the usual position, at right angles to the shoe and arranged to vibrate longitudinally. 2nd. In a thrashing machine provided with a bottomless shoe having an ordinary screen or sieve, the combination of a stationary slanting board held in the body of the machine independent of the shoe, and extending from a point near the bottom of the screen over the tailing spout to the grain spout.

No. 16,666. Improvements on Shower Baths. (Perfectionnements aux appareils à douches.)

John H. Crocker, Brussels, Ont., 12th April, 1883; for 5 years.

Claim.—Ist. The combination of the guards B B, guard support⁵ CC, screws D D provided with enlarged heads, wire loops E E and bath pan A provided with flange A1. 2nd. The combination, with a portable force pump I, of a curved outlet tube (J, sprinkler H and stir-rup J.

No. 16,667. Improvements on Life Boats.

(Perfectionnements aux bateaux de sauvetage.) Benjamin F. Chapman, Wiarton, Ont., 13th April, 1883 ; for 5 years.

Claim.—let. A life-boat having flat forward deck B, rear deck C and an intermediate semi-tubular deck E with closed ends provided with doors G, lights H and ventilating tubes I. 2nd. A life-boat hav-ing a hold or cabin D covered by a semi-tubular deck E with entrance from the ends. 3rd. A life-boat having a cabin amidships covered by a semi-tubular deck E, with end doors G entered from flat decks B

and C fore and aft. 4th. A life-boat provided with a screw propelling hand-power in a cabin, covered by a semi-tubular deck E having doors, lights and ventilators at the ends.

No. 16,668. Improvement in Sleigh Shafts. (Perfectionnement des limonières de traîneaux.)

Frank Jones and Warren Woolsey, Ypsilanti, Mich., U.S., 13th April, 1883; for 5 years.

1883; for 5 years. Claim-1st. The combination of the outer tube A with or without slitted ends and provided with the holes a b secured to a sleigh or in any suitable manner, with the tube E adapted to flide within the tube A and having a hole d near its outer end, and the thill-couplings C F adapted to be fastened in said holes a b d. 2nd. The combination, with the telescopic tubes A E, provided with the holes ad and secured to a sleigh in any suitable manner, the additional tube H secured to the tube A by the split pin g and having a hole h similar to hole d, at or near its outer end, and the pole couplings adapted to fit and fasten in said holes h d.

No. 16,669. Register for Wood Working Machines. (Compteur des machines à travailler le bois)

Albert A. Palmer, Owesso, Mich., U.S., 13th April, 1883; for 5 years.

ADDET A. Falmer, Owesso, Mich., U.S., 13th April, 1883; for 5 years. Claim.—Ist. A registering attachment for wood working machines, consisting of a suitable box or casing having a hinged top provided with means for locking it, a transparent front and a series of rotating disks having numerical characters thereon, and traversing wheel con-nected with pawls, for operating the ratchet teeth upon the sides of the disks. 2nd. The box or easing A provided with a transparent front a and hinged lock engaging top c, said box or casings contain-ing a series of rotating disks having numerical characters upon their periphery operated by a rubber-tired traversing wheel D and a pawl and ratchet mechanism, and adapted to be adjustably attached to the frame of a wood working machine by means of a clamp Chaving right angular extensions d hinged or pivoted to said depending extension ρ in which works a crank shaft E having connected thereto a traversing wheel D. in combination with the pawls G and disks H I K L baving numerical characters upon their periphery and provided with ratchet wheels *i k*, all rotating upon shaft *l*, and inclosed with in the adjust-able box or casing A. 4th. The traversing wheel D i keyed to a crank shaft E provided with a rubber-tire *s*, said wheel with is tire being of a particular circumference, in combination with the oscillating shaft *F*, pawls *G* and rotating disks H I K L provided with ratchet-wheels *i k* placed upon their respective sides, said disks and their operative mechanism being inclosed in a box or casing A capable of being adjustably connected to the frame of a wood working machine. 5th. The box or casing A having a hinged cover and transparent front, said front having set therein a plate *b* provided with a series of openings, in combination with the rubber-tired traversing wheel D crank shaft E provided with a slotted extension *d* and ears *h*, the pawles *G* rotating numerical disks H I K L, each having ratchet-wheels *i k* upon their respe

No. 16,670. Improvements on Vehicle (Perfectionnements aux ressorts Springs. des voitures.)

Alpheus O. Wilbur, Davis, Mich., U.S., 13th April, 1883; for 5 years. Alpheus O. whour, Davis, Mich., U.S., 13th April, 1993; 107 Stells. Claim. — Jst. The bottom plate which forms the bed of the spring having flanges to embrace the bolster, and perforated ears to embrace the waggon stake and be secured thereto, combined with the top plate having flanges to embrace the said stake near its upper extremity, the springs and bolts. 2nd. In combination with a bolster, its stake and the body of a waggon, the bed plate C having lugs c and ears a per-forated at b, the top plate B having ears d, the bolts D and the springs A.

No. 16,671. Method of Producing Photo-graphic Images and Apparatus therefor. (Methode de produire des images photographiques et appareil pour cet objet.)

William Kurtz, New York, N. Y., U.S., 13th April, 1883; for 5 years. Claim.—Ist. The improvement in the art of portrait photography by woving the camera and sitter, while practically fixed relatively to each other, through arcs of circles in a uniform horizontal plane during exposure, whereby a balf light may be changed to a full light during exposure and a more artistic distribution of light and shade obtained. 2nd. A photographic apparatus composed of a main plat-form adapted to rotate on a centre pivot in a socket of the floor, a rotary platform mounted on one end of the main platform and a camera at the other end.

No. 16,672. Improvements in Memorandum Books. (Perfectionnements aux agendas.)

Alexander Gardner, Hamilton, Ont., 13th April, 1883; (Extension of Patent No. 10,804.)

No. 16,673. Improvements on Water Traps.

(Perfectionnements aux soupapes hydrauliques.) William J. English and William Wood, Cohoes, N. Y., U. S., 13th April, 1883; (Extensionof Patent No. 15,777.)

No. 16,674. Improvements on Waters Traps. (Perfectionnements aux soupapes hydrauliques.)

William J. English and William Wood, Cohoes, N. Y., U. S., 14th April, 1883; (Extension of Patent No. 15,777.)