

**No. 14,243. Improvements on Harvesters.***(Perfectionnements aux moissonneuses.)*

John P. Manny, Rockford, Ill., U.S., 24th February, 1882; for 15 years.

*Claim.*—1st. The grain platform composed of the transverse carrying beam D, and the two sections G G arranged on a common plane within the upper surface of such beam. 2nd. The combination of a permanent carrying beam arranged in the line of the driving wheel and the grain wheel, and a platform constructed in two parts, the rear one of which is made detachable. 3rd. The combination of a carrying-beam, supporting the front edge of the rear part of the divided grain platform, and a rigid overhanging wing or fence, supporting the back part of such portion of the platform. 4th. The casting F constructed so as to support the grain wheel, the divider, the wing I and the brace for the outer end of the finger beam. 5th. In combination with the finger beam, the shoe, guards and front edge of the platform, all arranged on the upper surface of the finger beam.

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*Claim.*—1st. A rake supporting standard carrying the rake-driving shaft, and projecting forward from the axle and the main gear wheel of the machine, and above and across the counter shaft of the same. 2nd. The combination of a stationary rake guiding cam, a revolving rake hub, and a revolving reel hub, these several devices being mounted on a common post, and the rake hub being placed above the reel hub. 3rd. The combination of a revolving reel hub, with the beater arms rigidly secured thereto, a rake hub revolving around the same centre, a rake pivoted to such hub and a cam constructed and arranged so as to cause the rake to rise above and fall below the path of the bats or beaters. 4th. The combination, of a revolving reel hub, a rake hub arranged above the same and revolving around the same centre, a rake pivoted to such hub, a cam for controlling the vertical movements of the rake and causing it to descend below and arise above the path of the bats, and a shipping mechanism arranged to show the rake out of gear and bring it to a rest when raised above the path of the bats. 5th. The combination of a revolving reel hub, a rake hub driven thereby and revolving around the same centre, a stationary cam guide for controlling the vertical movements of the rake, suitable shipping devices for disengaging the rake mechanism from the reel hub, and a stop arranged in connection with the cam, to prevent the forward movement of the rake when thus disengaged. 6th. In combination with the revolving rake hub, and the cam for controlling the movements of the rake, a depression in the cam track, or groove, for receiving the friction roller or lug on the rake arm, and thus arresting the advance of the rake, when the rake hub has been disengaged from the reel hub. 7th. The combination of the tubular rake post, the shipping rod mounted therein and the clutch pin arranged in a suitable bearing on the rake hub, and provided with a head for engaging with the head on the shipping rod when the latter is raised. 8th. In combination with the shipping rod mounted in the tubular rake post, and provided with a suitable head for acting upon the head of the clutch pin, a system of levers for operating the same, extending in front of the main driving wheel and connecting with a treadle, or some equivalent device, located under the easy control of the driver. 9th. The combination of the reel bats and the rake constructed and arranged in such manner that the rake, in descending to the platform, is made to follow immediately behind a bat so as not itself to act as a bat or beater on the standing grain. 10th. In combination with a rearwardly inclined rake post, the rake pivot arranged diagonally to the rake arm, so as to regulate the speed of the rake in different parts of its path.

**No. 14,245. Improvements on Cooking Stoves.***(Perfectionnements aux fourneaux de cuisine.)*

The American Stove Manufacturing Company, Belleville, Ill., (Assignee of William N. Vining, Southwick, Mass., and Edouard A. Quesnel, St. Louis, Mo.) U.S., 24th February, 1882; for 5 years.

*Claim.*—1st. The combination of the casing C having the register E and the burner B. 2nd. The combination of the burner B, the casing C and the chamber F. 3rd. The combination of the chamber F, the casing C, the projections *c c*, the hook *e* and eye *f*. 4th. In the stove A, the combination of the chamber F, the burner or burners B, the chamber G and the chamber H. 5th. The combination of the burner or burners B, the chamber G and the chamber H. 6th. The combination of the chamber F, the casing or casings C C and the registers E E. 7th. The combination of the chamber G, the flue I I and the oven J. 8th. The combination of the oven J, having the openings *j j*, the flue I and the flue K. 9th. The combination, in an oil or gas stove, of the chamber G, the oven J and the chamber H, the heated currents passing from the chamber G to without the stove, via either or both of its apartments J H. 10th. An oil or gas stove in which the heated currents can be directed from the combination chamber above the burner, either directly out of the stove without passing through the oven and thence to without the stove. 11th. In the stove A, the moveable rest M.

**No. 14,246. Improvements on Thrashers and Separators.***(Perfectionnements aux machines à battre et à séparer les grains.)*

The McDonald Manufacturing Company, (Assignee of Henry Hardgrave,) Fond du Lac, Wis., U.S., 24th February, 1882; for 5 years.

*Claim.*—1st. The combination, with the thrashing cylinder and straw conveying and separating mechanism, of a beater arranged over the straw conveying and separating mechanism, and in rear of the thrashing mechanism, said beater composed of a smooth cylinder having the round ribs secured on the periphery thereof, and the ends of the axle or journals of said beater, arranged in adjustable bearings or boxes. 2nd. The combination of the inclined separating and straw

conveying pan E having a corrugated or serrated imperforate bottom, composed of transverse overlapping bars having rearwardly projecting forks or fingers, the inclined separating and straw conveying pan F arranged in rear thereof, and mechanism whereby said pans are adapted to receive rising and falling, and longitudinally vibrating or reciprocating movements in opposite directions. 3rd. The combination of the inclined separating and straw conveying pan E having a corrugated or serrated imperforate bottom composed of transverse overlapping bars, having rearwardly projecting forks or fingers, the forks or fingers of each bar arranged intermediate of, or alternating with the forks or fingers of the succeeding bars, and the inclined separating and straw conveying pan F arranged in rear thereof and adapted to receive the straw and grain from said pan E. 4th. The combination, with the separating and straw conveying pan E and the separating shoe K, of the separating and straw conveying pan F arranged in rear of pan E and over shoe K, and having a bottom, the front portion of which is composed of overlapping bars having rearwardly projecting forks or fingers, the rear portion composed of reversely arranged overlapping bars having rearwardly projecting forks or fingers, and an intermediate slotted portion through which the grain passes. 5th. A separating and straw conveying pan having a corrugated or serrated closed bottom and rows of rearwardly projecting forks or fingers G having teeth *g* and rearwardly projecting ends *g*. 6th. A separating and straw-conveying pan, having a corrugated or serrated bottom formed by overlapping bars having rearwardly projecting forks or fingers with teeth *g* and rearwardly projecting ends *g*, the forks or fingers of each bar arranged intermediate of, or alternating with the forks or fingers of each succeeding bar.

**No. 14,247. Improvement on Upright Pianos.***(Perfectionnement des pianos droits.)*

Charles E. Bourne and William Bourne, Boston, Mass., U.S., 24th February, 1882; for 5 years.

*Claim.*—1st. The jointed fall board A B suspended by the arms C C D D. 2nd. The fall board A B, lever E and music rack F.

**No. 14,248. Improvements on Refrigerators.***(Perfectionnements aux garde-manger.)*

James T. Gurney and Samuel Little, Boston, Mass., U.S., 24th February, 1882; for 5 years.

*Claim.*—1st. The detachable ice receptacle for refrigerators, having side walls A A, the lips *b b* projecting inwardly from the planes of said side walls, the lips *c c* projecting outwardly from said planes, and the apertures *a a* between the inner lips *b b* and the outer lips *c c*. 2nd. The combination, with the refrigerator having sockets *h h*, in the side walls F, of the detachable ice tank having the walls *a a* provided with the arms E E and the hooks *g g* situated outside of the planes of side walls, and having the apertures *a a*, the inwardly turned lips *b b* and the outwardly turned lips *c c*. 3rd. The ice tank having the walls A, the apertures *a a*, the outwardly turned lips *c c* and the lips *b* turned inward and coiled upward, to form supports for the rack. 4th. The combination of the tank having the apertures *a a*, the inwardly turned lips *b b*, the outwardly turned lips *c c*, the perforated bottom C, the drip pan K suspended beneath the tank, and the pipe D.

**No. 14,249. Improvements on Refrigerator Waggon.***(Perfectionnements aux wagons frigorifiques.)*

James T. Gurney and Samuel Little, Boston, Mass., U.S., 24th February, 1882; for 5 years.

*Claim.*—1st. A supplementary compartment above the refrigerating compartment, adapted to receive material which it is not desired to refrigerate. 2nd. A compartment in the rear of the waggon, adapted to be used for the cutting and trimming of meat and communicating with the refrigerating compartment, by means of an opening and closing door.

**No. 14,250. Improvements on Fire Escape Ladders.***(Perfectionnements aux sautoirs d'incendie.)*

Obadiah Sherwood, East Fairfield, Vt., and Herbert R. Bartlett, Brownton, Minn., U.S., 24th February, 1881; for 5 years.

*Claim.*—1st. The combination of the ladder truck A B, adjustable turn table C having grooved and notched incline D provided with the pulley E, windlass F, and rope *c*, hinged extension prop F F, having rope *h* and windlass *i*, and hinged ladder section G having the hinged bracket I K K and sliding extensions G G, safety hooks H with their stops *t*, and any ropes L L M M. 3rd. In combination with the truck wheels B B, the brake mechanism, or attachment, composed of two pairs of hinged arms *s s* having the brake blocks or shoes R R, parallel cross-bars T T and hinged segmental bar U having offsets W W. 4th. An improved extension ladder fire-escape composed of the truck A B with its brake attachment, turn-table C provided at one end with the hinged ladder N, and at the opposite end with a hinged prop O, grooved and slotted incline D having pulley E, windlass F, and rope *c*, extension prop F F, having windlass *i*, rope *h* and roller *j*, hinged ladder section G having sliding extensions G G with their tackle P P and windlass Q, and adjusting or balancing screw *m*, hinged brackets I K K and guy-ropes or stays L L M M.

**No. 14,251. Improvements in Apparatus for Separating and Amalgamating Gold and other Precious Metals.***(Perfectionnements à l'appareils à séparer et amalgamer l'or et aux métaux précieux.)*

Charles Taylor, Montreal, Que., 24th February, 1882; for 5 years.

*Claim.*—1st. An apparatus for amalgamating gold, or other precious metals, one or more drums, or cylinders rotated in pans or dishes