

No. 25,181. Refrigerator Store House for Fruits and Vegetables. (*Magasin Frigorifique pour les Fruits et les Légumes.*)

Samuel Brown, Russellville, Ark., U.S., 22nd October, 1886; 5 years.

Claim.—1st. The combination with a store house formed with walls a, of doors B and C, the doors C being made in sections d, di, substantially as described. 2nd. The combination with a store house, formed with double walls, the spaces between the walls being filled in with non-conducting material that is covered and held by strips b, of doors B and C, toothed arms F and brackets G, substantially as described. 3rd. The combination with a double-walled store-house, of double-walled doors, one of which is made in sections, toothed arms F, brackets G and a weather cap N, substantially as described. 4th. The combination with a double-walled store-house, of double-walled doors, one of said doors being formed in sections and one of the doors carrying a facing cushion D, bracket E, arms F F and brackets G, substantially as described.

No. 25,182. Reed Organ. (*Orgue.*)

James B. Hamilton, Worcester, Mass., U. S., 22nd October, 1886; 5 years.

Claim.—1st. The combination of the series of reeds and their induction and eduction passages, the valve or valves thereof, the closure-board provided with an orifice extending through it over the upper end of each of such eduction passages and the series of mouths arranged upon such closure-board, and having induction openings in their bottoms, with the air exhaust chamber fixed to and extending above the closure-board, and movable therewith, and the said valve or valves, all being substantially as set forth, and the said valve or valves, if such combination being exposed to the external air, or arranged within a chamber into which the external air has free access and circulation. 2nd. The combination of the vibrating diaphragm or drum covering the air exhaust chamber with such chamber fixed upon and movable with the said closure board and with the series of reeds and their induction and eduction passages, the valve or valves thereof, the said closure-board provided with an orifice extending through it over the upper end of each of such eduction passages and the series of mouths arranged upon such closure board and having induction passages in their bottoms, all being substantially as set forth, and the said valve or valves of such combination being exposed to the external air or arranged within a chamber into which the external air has free access and circulation. 3rd. The combination of the air exhaust chamber, fixed upon and extending above the closure board, and having in its bottom an air passage leading to and opening into one through the reed block, with such block, its reeds reed, induction and eduction passages valve or valves, and mouths arranged adapted and to operate substantially as set forth. 4th. The combination of an air induction chamber arranged under the reed block, and having an air inlet and a swell valve or register thereto, as described, with the series of valves, the reeds, the induction and eduction passages of such reeds, the closure-board having openings and hinged to the reed block and provided with mouths and an air eduction passage, as described, and with the air exhaust chamber fixed to and extending above such closure-board, and provided with an eduction passage to extend over and communicate with the said air eduction passage of the reed block, all being essentially as set forth.

No. 25,183. Reed Organ. (*Orgue*)

Henry W. M'calf, Worcester, Mass., U. S., 22nd October, 1886; 5 years.

Claim.—1st. In a reed-organ, the combination, with the keys pivoted at the centre and provided with adjusting buttons at their rear ends, of the reed-valves located above the reeds and operated by the keys without the intervention of any pitman or levers, substantially as set forth. 2nd. The combination, with keys H pivoted at its centre and provided with an adjustable button I at its rear end, of the reed-valve F and its actuating spring located above the reeds, substantially as shown and described. 3rd. The combination, with the key H and the adjusting button I secured upon the rear end of said key, and adapted to engage directly with the free end of the reed valve to open the same, of the reed valve F provided with a spring, and hinged at one end, and having its free end extend out beyond the rear end of the key to be acted upon by the same, in the manner substantially as set forth. 4th. The combination, with the key H and the adjusting button I secured upon the rear end of said key for the purpose stated, of the reed-valve F located within the swell box and hinged at its rear end, and having its forward free end extend out beyond the rear end of the key H, and adapted to engage therewith for the purpose stated, substantially as shown and described. 5th. The combination, with the key H and adjusting button I secured upon its rear end, of the reed-valve F adapted to engage with, and operated by the button I and located within the swell-box G, and said swell-box G and the reed-boards E for holding the reeds in a vertical position below the reed-valves, substantially as shown and described. 6th. In a reed-organ, the combination, with the keys provided with adjusting buttons at their rear ends, of the reed-valves located above the reeds and adapted to be operated by the keys, substantially as set forth.

No. 25,184. Block Presser for Paper Pulp Mills. (*Presse-Bloc pour Moulins à Pâte à Papier.*)

Warren Curtis, Coranth, N.Y., U.S., 22nd October, 1886; 5 years.

Claim.—1st. The combination, with a cylinder, of a piston, a tubular piston rod and a rod sliding in the tubular piston, and valve-operating gear operated by the rod in the piston-rod, substantially as herein shown and described. 2nd. The combination, with a cylinder, of a piston in the same, a tubular piston-rod on the piston, a rod sliding in the tubular piston rod, a lever pivoted on the cylinder, a valve connected with the lever, which lever is also connected with

the rod in the tubular piston rod, substantially as herein shown and described. 3rd. The combination, with the cylinder D, of the piston C, the tubular piston rod B, the rod M in the same, the cylindrical piece K on the upper end of the rod M, the pivoted lever J having its upper end connected in a suitable manner with the piece K, and a valve connected with the lever J, substantially as herein shown and described. 4th. The combination, with a cylinder, of a piston in the same, a tubular piston rod connected with the piston, a sliding rod in the tubular piston rod, a pivoted lever connected with the sliding rod in the piston rod, a rod pivoted to the lever and connected with the valve on the cylinder, and springs acting on the said valve-rod, substantially as herein shown and described. 5th. The combination, with the cylinder D, of the piston C, the tubular piston rod B, the rod M in the same, the lever J, the rod G connected with the same, the valve F on the rod G, the block P on the said rod, the spring Q and R acting on the rod G, the spring-catch N connected with the lever J, substantially as herein shown and described. 6th. The combination, with the cylinder D, of the piston B, the tubular piston rod B, the rod M in the same, the piece K on the upper end of the rod M, the head M₁ in the lower end of the rod M, the stop-nut S in the upper end of the piston rod, the lever J, the rod G connected with the same, the valve F on the rod G, a spring acting on the rod G, and a latch for holding the rod, which latch is operated from the lever J, substantially as herein shown and described.

No. 25,185. Roller Grinding Mill.

(*Moulin à Blé à Cylindres.*)

Robert Morrell, Summit, N.J., U.S., 22nd October, 1886; 5 years.

Claim.—1st. In a grinding mill consisting of a series of grinding rolls and separators in the alternate arrangement described, the said series of rolls and separators arranged in two ranges located side by side, in combination with an elevator intermediately arranged therewith, substantially as described. 2nd. In a grinding mill consisting of a series of grinding rolls and separators in the alternate arrangement described, the said series of rolls and separators arranged in two ranges located side by side, in combination with an elevator intermediately arranged therewith, the partition x and the shutters h, substantially as described. 3rd. In a grinding mill consisting of a series of grinding rolls and separators in the alternate arrangement described, the combination of the said rolls and separators arranged in two ranges located side by side, the driving belt running directly from one set of rolls to another of the two ranges alternately throughout the whole series, whereby one of the rolls of each pair is driven, and connecting gearing, whereby the other roll of each pair is driven, substantially as described.

No. 25,186. Block Presser for Paper Pulp Mills. (*Presse-Bloc pour Moulins à Pâte à Papier.*)

Warren Curtis, Corinth, N.Y., U.S., 23rd October, 1886; 5 years.

Claim.—1st. The combination, with a cylinder, of a piston in the same, a piston rod on which the piston is mounted, the upper end of the piston rod projecting through the upper end of the cylinder, and of a plunger or presser-head on the lower end of the piston rod, substantially as herein shown and described. 2nd. The combination, with a cylinder, of a piston in the same, a rod on which the piston is mounted, the said rod projecting through the upper end of the cylinder, a plunger or presser-head on the lower end of the piston rod, a lateral projection on the upper end of the rod, and a lever connected with a valve for regulating the admission of steam, water or compressed air into the cylinder, substantially as herein shown and described. 3rd. The combination, with the cylinder B, of the piston rod C, the piston A on the same within the cylinder, a plunger or presser-head on the lower end of the piston rod, the piece, ion K on the upper end of the rod C, the lever G having a notch J, and the valve F connected with the lever G, substantially as herein shown and described.

No. 25,187. Snow Clearer. (*Charrue à Neige.*)

Finlay A. McRae, Montreal, Que., 23rd October, 1886; 5 years.

Claim.—1st. The combination, with a locomotive, of a shell or case secured thereto in place of the cow-catcher, and carrying rotating shaft on which is mounted a lifting screw, substantially as and for the purpose set forth. 2nd. The combination, with a rotating shaft, carried in shell A, and carrying screw B, of fans E, E operating to drive snow out through openings in shell, all as herein set forth. 3rd. The combination, with the openings F in shell A, of a slide or hook G, substantially as described and for the purposes herein set forth. 4th. The combination, with the hollow shaft C and screw B carried in shell A, of steam pipe H, as and for the purposes described.

No. 25,188. Explosive Compound.

(*Composition Explosible.*)

Béla Brones, Oberdöbling, Austria, 23rd October, 1886; 5 years.

Claim.—1st. In manufacturing explosive compounds, the employment and application of the double salt compounds of picrate of sodium with other picrates, and especially the picrates of baryta and lead, substantially in the proportions and for the purpose described in the foregoing specification. 2nd. In explosive compounds which contain the compounds or double salts as mentioned in the preceding claim, or picric acid or its salts; the application and employment of highly nitrated naphthalene for the purpose of obtaining on the one hand the utmost possible oxidation of the carbon, and on the other hand a slower consumption of the explosive compounds through the large quantity of nitrogen contained in the same, and for generally increasing the volume of gas evolved, substantially in the proportions described in the foregoing specification and for the purposes set forth.