

No. 24,459. Burglar Alarm. (Verlisseur de voleur.)

The National Manufacturing Company, Louisville, Ky., (assignee of Frank Cross, Washington, D.C., U.S., 7th July, 1886; 5 years.)

Claim.—1st. The combination, with the driving shafts, a series of slides having racks adapted to rotate said shaft, a shaft carrying an index geared to the driving shafts, and independent bell striking mechanism adapted to be operated simultaneously when the driving shafts are rotated, substantially as described. 2nd. As an improvement in burglar alarms, the combination of an enclosing case, the driving shafts, one of which carries a cam, a series of slides adapted to rotate said shafts, a rod supported on the cam, and bell striking mechanisms connected with the rod and adapted to be set for operation either separately or jointly, substantially as described. 3rd. In a burglar alarm, the combination of an enclosing case, provided with a dial, the operating shafts, the slotted slides having rack bars connected thereto and gearing with the driving shafts, a shaft provided with an indicating hand and geared to the driving shafts, and separate bell striking mechanisms connected with each other or jointly, substantially as described. 4th. The combination, with an enclosing case having a dial driving shafts journaled in said case, and having a series of pinions, a series of slides having a stop and rack-bar, adapted to mesh with and rotate the pinion of the driving shafts, said rack-bars being secured in said slides by headed pins projecting through a slot therein, a shaft *N*, geared to said driving shafts, an index shaft geared to said support *N*, two independent trains of gearing *D*, *D*, bolts *K*, *K*, hammers *J*, *J*, one of which has an arm *d*, and a sliding rod *b* having a friction roller *a* at its upper end operated by the cam *M*, and having an arm *b* from which the arm *d* is released when said rod is operated, substantially as described. 5th. In a burglar alarm of the class described, the combination, with the slide, of a plate *T* secured to the slide, and a spring also secured to the slide, and bearing on the plate to clamp the operating cord or wire between said spring and plate, as set forth.

No. 24,460. Bustle. (Tournure.)

Jacob W. Truxel, (assignee of Daniel Wertz,) Sedalia, Mo., U.S., 7th July, 1886; 5 years.

Claim. 1st. A bustle comprising a single wire, consisting of a bow having a double loop near each end, which ends project forming supports, and supplemental bows secured at each end to the rear loops of the double set of loops, substantially as described. 2nd. In a bustle, the combination of a single wire, consisting of a bow having, and having a double loop near each end, which ends project downward and upward forming U-shaped supports terminating in eyes, bands connecting the ends of the supports with the first of the double loops, a lacing to adjust the set of the bustle, waist straps and supplemental ribs secured at each end to the second or rear loop of the double set of loops, substantially as shown and described. 3rd. The herein shown and described bustle, comprising the following elements, in combination: a single wire consisting of a bow having a double loop near each end, which ends project downward and upward forming U-shaped supports terminating in eyes and folded on itself and having supplemental eyes, bands connecting the folded portions with the first of the double loops, a lacing passing through the eyes to adjust the set of the bustle and permit the self-adjustment of the supports, waist-straps and supplemental ribs secured at each end to the second or rear loop of the double set of loops, as set forth.

No. 24,461. Burial Case. (Cercueil)

J. Carroll House, Lowville, N.Y., U.S., 7th July, 1886; 5 years.

Claim.—1st. A burial case, constructed of asbestos superimposed in layers over a suitable form, said layers being cemented each to the other by a stratum of asphaltum or its equivalent, and one or more of the respective layers saturated with a solution of asphaltum or its equivalent, whereby it is rendered impervious to water, the whole strengthened and supported by transverse strips of metal, soldered or otherwise united at their points of intersection, and retained in place between layers of the constituted case, substantially as shown and for the purpose specified. 2nd. The stiffening of the shell of said case, by the saturation of one or more of the layers of the same, with a solution of silicate of soda, or silicate of potash either separately, or in combination with chloride of calcium. 3rd. The strengthening and supporting rim and flange *F*, and the groove encircling the same to receive the finishing cord, as set forth. 4th. The use and interposition of the sealing felt, saturated with a compound of petroleum, distillates between the upper and lower sections of the shell, as shown and for the purposes set forth.

No. 24,462. Motor. (Moteur.)

Roswell M. Fairfield, (assignee of Elijah B. Benham,) Holyoke, Mass., U.S., 7th July, 1886; 5 years.

Claim.—1st. In a motor, a series of fixed cylinders radiating from a common center, a standard to which said series of cylinders is fixed, having therein a valve chamber with which said cylinders communicate induction and ejection passages, substantially as described, communicating with said chambers, a rotary valve located in said valve-chamber having thereon a shaft extending rearwardly to receive a driving pulley, and a second shaft in a line with the former extending forward between the converging ends of said cylinders, a series of pistons in the latter, a ring encircling the outer ends of said pistons with which the latter engage, a bar secured to said ring and extending transversely across it, and a crank secured to the latter and to the end of said shaft, which extends between the converging ends of the cylinders, combined and operating substantially as set forth. 2nd. In a motor, the standard *A* having the head *12* in which is the valve chamber, said standard having the induction passage *n* therein communicating with said chamber, the cap *H* secured to said head and having a shaft bearing therethrough, substantially as described, and the chamber *7* therein having an ejection passage leading therefrom, combined with the valve *v* having a shaft on each end projecting through opposite sides of the

machine, the series of pistons *c*, the ring *r* engaging with the latter, and the bar *A* having a crank-connection, substantially as described, with one of said valve-shafts, all as set forth. 3rd. In a motor, a standard having a suitable head, substantially as described, forming a support for the operating parts of the machine, and having a valve chamber, and the induction passage *n* therein communicating with said chamber, the series of cylinders *c* and pistons *c* secured to said standard head, the hollow cap *K* secured to the latter opposite said cylinders, and having an ejection passage therefrom, the ring *r* engaging with said pistons, the bar *A* secured to said ring, combined with the hollow valve *v* provided with a shaft on its opposite ends, one of which passes through the cylinder head and has a crank-connection with said bar, and the other extends through said cap and serves as the driving shaft of the machine, substantially as set forth.

No. 24,463. Bleaching Compound.

(Composition pour Blanchiment.)

Charles Toppon, Salem, Mass., U.S., 8th July, 1886; 5 years.

Claim.—The above described bleaching compound, consisting of expressed oil of mustard seed, paraffine, caustic soda, tallow, soap, sulphate of soda and water, as set forth.

No. 24,464. Physician's Buggy Case.

(Poche de voiture de Medecin.)

Joseph J. Stephens, Conesburg, Mo., U.S., 8th July, 1886; 5 years.

Claim.—1st. A physician's buggy case, made with two boxes *A*, *A*, each provided with an opening at the top and front, and with swinging trays, as at *B*, substantially as specified, and said boxes *A*, *A* secured together back to back, and a cover *C* fastened at its transverse centre to the top of the case and overlapping the top and front openings of both the boxes, substantially as herein set forth. 2nd. In a physician's buggy case, the combination, with opposite boxes, as at *A*, *A*, secured together back to back, and having openings giving access to their interiors, and a flap cover *C* placed over the openings of both boxes of angle plates, as at *D*, fastened to the back walls of the boxes and also to the central portion of the cover, substantially as herein set forth. 3rd. In a physician's buggy case, consisting of a case divided into two compartments by a central vertical partition, and provided with an opening at the upper part of the front of each compartment, trays pivoted to swing in and out of said openings, and a cover secured to the central vertical partition and covering the top and front openings of the compartments, substantially as herein shown and described.

No. 24,465. Hot Air Furnace.

(Calorifere a Air.)

Issac D. Smend, Toledo, Ohio, U.S., 8th July, 1886; 5 years.

Claim.—In combination with the fire-box *A* of a furnace, the brackets *D* and the lining plates *C*, provided with the horizontal slots *a*, said plates having their upper edges arranged to fit closely against the inner walls of the fire box, and their lower edges set some distance from the side walls, substantially as shown and described.

No. 24,466. Roller Mill. (Moulin a Cylindres.)

Frank Lenthoff, Detroit, Mich., U.S., 8th July, 1886; 5 years.

Claim.—1st. In a roller mill, the combination, with grindin' rollers, of an intermediate stationary grinding-bed separating said rollers, and having concave faces upon which said rollers grind, rotatable shafts eccentrically connected with said rollers, and worm gears to operate said shafts and adjust said rollers upon their concave grinding-bed, substantially as described. 2nd. In a roller mill, the combination, with grinding rollers, of an intermediate stationary grinding bed having concave faces upon which said rollers grind, said bed separating said rollers, and the grain ground thereby upon its opposite concave faces, rotatable shafts eccentrically connected with said rollers, worm gears to operate said shafts and adjust said rollers upon said grinding bed, and indicators connected with said gears, substantially as described. 3rd. The combination, with the adjustable grinding rollers *F*, *F*, and the intermediate stationary bed *E*, separating said rollers and having concave faces, of the hopper *B* having ridge-shaped way *D*, throats *b*, *b*, and auxiliary inner walls *b*, *b*, the feed-rollers *C*, *C*, and adjustable gates *C*, *C*, substantially as described. 4th. The combination, with the hopper *B* having throats *b*, *b*, the feed rollers *C*, *C*, adjustable grinding rollers *F*, *F*, and intermediate stationary bed *E*, of the adjustable gates *C*, *C*, the crank-shafts *c*, *c* mounted beneath said gates in engagement therewith, and provided with indicating fingers, and the indicators *I* attached to the end of the hopper, substantially as described. 5th. The combination, with the casing *A*, brackets *G*, *G*, grinding-rollers *F*, *F*, sliding boxes *K* and the intermediate stationary bed *E*, of the studs *h* having index fingers *h*, the rotatable indicators *I*, the worm shafts *h* having hand wheels *H*, and pinions *h*, the shafts *h* having gears *h* and eccentric *J*, *J*, and eccentric-rods *k* for connecting the eccentric straps and sliding roller boxes, substantially as described.

No. 24,467. Tricycle. (Tricycle)

Frederick Whitte, Westborough, Mass., U.S., 8th July, 1886; 5 years.

Claim.—1st. The driving-wheels and divided shaft, having one portion connected with each wheel, and the pinions *a*, *a*, connected with two portions of the shaft, combined with the intermediate gearing *a*, *a*, *a*, *a*, between the said pinions, the box inclosing the said pinions, and gearing having bearings for the said gears *a*, *a*, and their connected pinions and actuating mechanism for the said box, substantially as described. 2nd. The main shaft and hubs *b* carried thereby, each hub provided with an annular groove around its periphery, the said groove being intersected by transverse recesses, and rollers placed in the said recesses combined with rings surrounding the said hubs, and rollers, drive-chains, or bands to engage and operate the said rings, and connected with the actuating levers *E*, the annular groove of each hub affording space for the circulation of oil