more openings F, with the primary combustion chamber, and through openings E, with the interior of the ash pit, a chamber I, below the ash pit, communicating through one or more openings H with the rear chamber (4), steam coils L within the chambers (4), (4)and L, and a draft flue K, leading from the chamber I to the place of ignition, substantially as described.

No. 34,879. Mattress. (Matelas.)

Harriette Jeannette Webb, Lockport, N.Y., U.S., 15th August, 1890; 5 years.

There is a section of the rear or inner wall of the recess, loops attach-binged section and the rear or inner wall of the recess, loops attach-binged section and the rear or inner wall of the rear instance section attaches the section attaches the section attaches the section attaches the section attaches and the inner wall of section attaches and section attaches the section attaches and the section attaches and the section attaches and the section attaches attaches the section attaches att

No. 34,880. Mineral Separator.

(Séparateur de minerais.)

George Hutton Patterson, Montreal, P.Q., Can, 15th August, 1890; 5 years.

by vars. Claim.—Ist. In a mineral separator, the combination of the casing a having duct c. provided with a blast of air as described, also having a duct d. adapted to receive the said blast of air, with a hop-per as described adapted to present the material to the said blast in a thin sheet of falling material, or extended form, substantially as and for the purposes set forth. 2nd. In a mineral separator, the combination of the casing a, having duct c, provided with a blast of air, also having duct d, adapted to receive said blast of air, with hop-pers h, and f. constructed and arranged as described to present the material to be separated in a thin sheet or extended form of falling material, the whole substantially as described for the casing a, having duct c, provided with a blast as described, with duct d, adapt-ed to receive the said blast, said duct d, being further provided with the obstructions s, and with a hopper adopted to present the ma-terial, the substantially as described.

No. 34,881. Stock Car. (Char à bestiauz)

John Milton Burton and Duncan Alexander McNicol, Wichita, Kan-sas, U.S., 22nd August, 1890; 5 years.

John Miton Burton and Duncan Alexander McNicol, Wichita, Kan-sas, U.S., 22nd August, 1890; 5 years. Claim.-lst. The combination, in a stock car provided with the side posts P, and the sheathing N, extending down at the car sides a distance from the top and forming the outer wall of the hay-recep-tending up a distance from the car floor and forming the lower por-tion of the sides of said posts above said slatting G, by means of their oonnected bearings dapting them to turn between said posts, the ing the inner walls of the car, of the troughs C, pivotally secured to connected bearings adapting them to turn between said posts, the ing the inner walls of the car, of the lower part and form-the inner walls of the car, of the lower part and form-ing the inner walls of the car, of the lower part and form-the inner walls of the car, of the lower portion of sec-tion f, wherein arms a are arranged extending into the car ad-iton B, with troughs C, and the mechanism consisting of rods J, J', said side sections through the medium of said rods, whereby the said to position for use, substantially as specified. 2nd. The combina-N, secured to the outer upper part of said posts and forming the erine mall of the hay-receptacle, and the slats if, secured to the low-side of aid posts above said slatting, by means of their crank are of the car, of the troughs C, pivotally secured to the low-side of said posts above said slatting, by means of their connected ing arms a, a' hinged to turn between said posts, sections B has' said sheating, the links L, connecting the lower portion, said sec-ting arms a, a' hinged to the sides of said posts at the base of said said sheating, the links L, connecting the lower portion, said sec-tions B, with said to the sides of said posts, and forming the sole of said said sheating, the links L, connected with arms a of said said sheating, the links L, connecting the lower portion, said sec-and troughs can be turned lover so conton, said sec-tions B, with said to the said rods, whereby th

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ing racks R, hinged at their lower portion to the inner upper part of said posts and forming the inner wall of the hay-receptacle, the draw is a single of the equivalent, arranged to bear aranner and having arms a hinged to the side of said posts at the prace diagent said racks to yieldingly hold them folded, the side wall bear of said posts at the prace diagent said racks () is the mochanime condition of the rods J, J, cranks yieldingly hold them folded, and the rocks unfolded into position for use, and the racks automatically folded when hav in the receptacle is consumed or removed, substantially as specified. Sint the upper part of its side walls, of the racks R, hinged at their lower part and forming the inner wall of said receptacle, the sring arms F, or their equivalent arranged to bear against said racks to yieldingly hold them folded, and the mechanism consisting of arms a, of the side wall sections B, shaft S, boxed longitudinally in the arm of the car lever z, and dramks z', z', secured on weby said and rods J, J, connecting said cranks the visual arms, or use, subtantially as specified. Ght The combination, in a stock car provided with the side posts P, and the sheathing N, secured to the outer upper part of said posts and forming the oart with asid arms, or use, subtantially as specified. Ght The combination, in a stock car provided with the side posts P, and the sheathing N, secured to the outer upper part of said posts and forming the arm a, hinged to said posts and forming the arm a, hinged to said posts and forming the arm a, hinged to said posts and the receptacle, and the mechanism consisting of shalt S, cranks z', z', and lever z, secured on said are expectacle adjacent said racks, the eavnas ends of folds, arranged to protest said arms from contact with hay in the side posts and extending the said troughs, and the shalt AS. Longitudinally arranged to fash appear the said arms from the car the side of said posts and the side post said posts and the shalt AS. As

No. 34,882. Stock Car. (Char à Bestiaux.)

John Milton Burton and Duncan Alexander McNicol, Wichita, Kan., U.S., 22nd August, 1890, 5 years.

John Milton Burton and Duncan Alexander McNicol, Wichita, Kan., U.S., 22nd August, 1890, 5 years. Claim.—1st. A stock car, provided with receivers fixed in the roof frame work, accessible through doors in the car roof, with main pipes seated in pockets in the car lines adjacent to the car roof, ari-ranged along each side of the car in communication with side main for independently supplying water to each trough section through the car, substantially as set forth. 2nd. A stock car, provided with supply pipes seated in pockets in the car line, adjacent the car roof, along either sides of the car, in communication with a receiver or receivers into which the water is introduced into the car, and with side lead pipes communicating with said supply pipes arranged within the walls of the car, in roduced into the car with water, substantially as set forth. 3rd. In a stock car, the combination with associated in pocket in the car line, adjacent the car roof, along either sides of the car, in roduced into the car, and with side lead pipes communicating with said supply pipes arranged within the walls of the car, for independently and simultaneously supplying the several trough sections through the car with water, substantially as set forth. 3rd. In a stock car, the combination with pivoted watering troughs adapted to being turned into or out of posi-tion for use, of the shaft S seated in bearings in the car lines to one side from the car centre, of the lever L fixed to and adapted to rook the shaft of the crank arms C¹ and C², the former of which is shorter than the latter, of the connecting rods s and s¹ and s², and the bell granks J and J¹, substantially as and for the purpose specified. 4th In the stock car, described, the combination with the pivoted cross-sections C and the rook shaft S and the lever L thereof, of the crank arms C¹ and C², fixed on the shaft, the former of which is shorter than the latter, of the conceting rods s and d¹, the former of which is proportionately longer than the latte