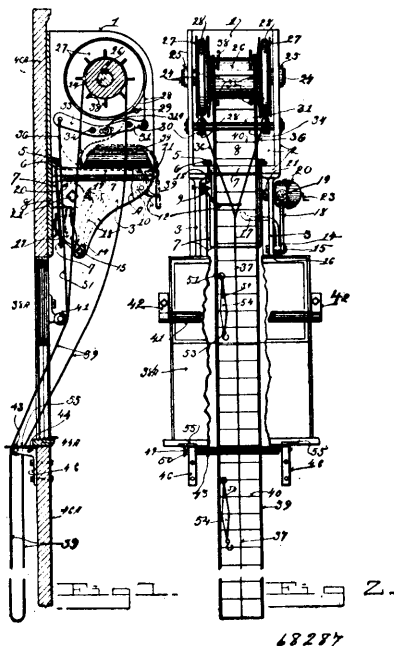


said brake bands, and a brake rope secured operatively to said brake levers, with an endless wire rope ladder comprising suitable sides,



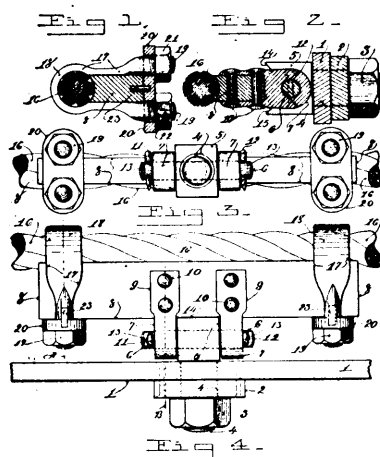
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and rounds arranged to roll on said drum and engage said pins with its rounds, substantially as specified. 3rd. In a fire escape, the combination of a cabinet, the drum journaled in said cabinet, the endless ladder mounted to roll on said drum, the projecting pins, the brake bands, the brake levers and the brake rope with the trap door hinged to said cabinet, and the trip latch arranged in the path of said ladder, substantially as specified. 4th. The combination with a fire escape, of the cabinet, a drum journaled therein, means including a brake flange on each end of said drum, and a depending rope for controlling the rotative speed of said drum, an endless rope ladder mounted on the surface of said drum and having suitable rounds, projections on said drum adapted to engage said rounds with a trap door hinged to said cabinet and adapted to hold said ladder and brake rope when in disuse, a trip latch arranged to be tripped by a movement of said ladder to place it in a position of use, and an alarm bell arranged to be sounded by the falling trap door, substantially as described. 5th. In a fire escape, the combination of the rotatable drum and the endless ladder, a cabinet, brackets arranged to support said cabinet, a trap door hinged in the floor of said cabinet between said brackets, a trip latch pivotally secured to one bracket and provided with two arms, one of which is arranged to hold up said trap door and having the other arm arranged to be engaged by said ladder when it is dislodged from said door, a spring actuating alarm bell pivoted to one of said brackets, a two armed lever pivoted adjacent to said bell, one arm of which is arranged in operative relation to ring said bell, and having the other arm arranged in the path of and adapted to be moved by the downward swinging movement of said trap door, whereby said two armed lever is actuated to ring said alarm bell, substantially as described. 6th. In a fire escape adapted to be placed at windows, the combination of the cabinet and the drum with the endless ladder mounted thereon, the brake flanges, the compound levers, the brake rope, and the trap door hinged in the floor of said cabinet, a trip latch arranged to support said door, an alarm bell arranged to be actuated by said door, a roller arranged across said window, and a pair of rollers arranged below the sill of said window, brackets adapted to support said rollers, and a platform leading from said sill to the front side of said ladder, substantially as described. 7th. In a fire escape to be placed at window and door openings of buildings, the combination of the drum, the supporting cabinet, the brake flanges on said drum, the pliable brake bands surrounding said flanges, and the brake rope, with a wire rope ladder arranged to rotate said drum, a trap door secured in said cabinet, the trip latch arranged to releasably support said door, the alarm bell arranged and adapted to be operated by the fall of said door, the brackets bolted to the building below the window sill, a platform on the outside of each bracket and extending in front of said ladder and two rollers pivoted to said brackets, there being a recess in one of said brackets adapted to allow one end of the outside roller to be raised out of its bearing, and means for securing the opposite end of the outer roller against displacement from its bearing, substantially as described. 8th. In a fire escape, the combination of a box-shaped cabinet secured above a window or door opening, a drum rotatably mounted in said cabinet, brake flanges on each end of said drum, a pliable brake band arranged to surround each flange, two levers pivotally attached

together at two of their ends, one lever of which is secured to one end of said brake band, and the other of which is connected to a rope depending from said lever to the ground, pivotal bearings for both of said levers at determined points of their respective length, an endless rope ladder mounted to roll on said drum, projections on said drum arranged to engage the rounds of said ladder, a roller arranged across said window, a second bracket at the outside of the sill of said window, supporting said roller at each end, one of which brackets is vertically slotted to allow said roller to be disengaged quickly from it, a platform on the outside of each bracket leading to the front of said roller, a trap door pivotally mounted in said cabinet, and arranged to support said ladder and brake rope in a position of disuse, means for locking said trap door in a position to support the ladder, means for unlocking said trap door and for moving it out of the operative path of said ladder and brake rope when said ladder is in use, a two armed lever pivoted to said cabinet, one arm of which is arranged to be engaged by said trap door, and an alarm bell arranged to be engaged by the other arm of said lever and to be sounded by the movement of said lever and said trap door when the ladder drops into a position of use, substantially as described.

No. 68,288. Bucket Clip for Wire Rope Tramways.

(*Mâchoire pour cables et augets.*)



68288

Byron C. Riblet, Nelson, British Columbia, Canada, 1st August, 1900; 6 years. (Filed 16th July, 1900.)

Claim.—1st. In a rope and bucket clip, the combination of a bar having a concaved edge adapted to fit against a rope, a yoke-shaped clip adapted to surround said rope and opposite sides of said bar, threaded ends on said clip, a strap on said ends against the edge of said bar and nuts on said threaded end arranged to clamp said rope and bar between said strap and clip, substantially as described. 2nd. In a rope and bucket clip, the combination of a bar fitted against a rope, a yoke arranged to clamp said rope and bar together, a hinge bolt pivotally secured to the opposite edge of said bar from said rope and arranged to be pivotally secured to a rope carried bucket, substantially as described. 3rd. In a rope clip, the combination of a rope and a bucket, with the rope fitting bar and the yoke clip and strap clampably securing said rope to said bar, substantially as described. 4th. In a rope and bucket clip, the combination with the rope, of a flat bar concaved at one edge to fit against the rope and clips arranged to clamp said rope and bar together, substantially as described. 5th. In a rope and bucket clip, the combination with the rope, of a flat bar concaved at one edge to fit against the rope, clips folded around said rope at each end of said bar, and arranged to lay against the opposite sides of said bar, threaded ends on said clips, nuts on said threaded ends, a strap on said threaded ends, a dowel pin in said strap and bar adapted to hold it against displacement and a bolt pivotally secured to the opposite edge of said bar from said rope to swing vertically and having stop projections arranged to define its vertical movement to about an angle of 45 degrees above and below its horizontal centre, a round threaded end and a nut on the end of said bolt, and a shoulder adjacent to said nut, substantially as described. 6th. In a rope and bucket clip, the combination with the rope, of the rope bar, the rope and rope bar clips, the straps and the pins adapted to hold the strap to the bar, with two lugs spaced a short distance apart and projecting from the opposite edge of said rope bar from said rope at the central portion of said rope bar, a pin extending through said lugs, a bolt pivoted to said pin and having a concentric portion adjacent to the edge of said bar, stops on said concentric portion adapted to define the pivotal movement of said bolt, and a round stud end to said bolt having a shoulder at one end