

# The Canadian Patent Office

## RECORD




Vol. XI.—No. 10.

OCTOBER, 1883.

Price in Canada \$2.00 per An.  
United States — \$2.50 “

### CONTENTS.

INVENTIONS PATENTED.....	349
ILLUSTRATIONS.....	381
INDEX OF INVENTIONS.....	I
INDEX OF PATENTEES.....	II

### INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

#### No. 17,555. Emery or Corundum Wheel.

(*Tambour à émeri.*)

James T. Barnard, Hamilton, Ont., (Assignee of Gilbert Hart, Detroit, Mich., U. S.) 1st September, 1883; 5 years.

*Claim.*—1st. An emery, corundum or other composition wheel having embedded therein and extending from the center toward the circumference thereof a brace or braces formed of a substance as easily or more easily worn away by friction than the body of the wheel whereby the composition of which such wheel is formed is braced against the centrifugal strain resulting from a rapid rotation and an even wear of the periphery of said wheel secured, substantially as set forth. 2nd. An emery, corundum or other composition grinding or polishing wheel having embedded therein a concentric reticulated or foraminous metal disk or disks equally subject to wear by friction as the body of the wheel whereby said wheel is re-enforced in all directions, substantially as set forth.

#### No. 17,556. Couplings for Shafting.

(*Embrayage des arbres de couche.*)

John Killip, Allegheny, Penn., U. S., 1st September, 1883; 5 years.

*Claim.*—1st. A shaft-coupling composed of longitudinal separable sections having a central bore, one of said sections having rectangular flat-faced keys, which project into the cavity of the coupling, said keys surrounded by relief-channels, substantially as and for the purposes specified. 2nd. A shaft-coupling composed of longitudinally separable sections having a central bore, each section having longitudinal grooves on its edges parallel to the axis of the bore, substantially as and for the purposes specified. 3rd. The combination with the shafts having flat recesses *h h*, of a coupling composed of longitudinally separable sections, one of said sections having rectangular flat-faced projections *f f* which project into the recesses *h h* of the shafts, substantially as and for the purposes specified.

#### No. 17,557. Telephone.

(*Téléphone.*)

Allen W. Rose, London, Eng., 1st September, 1883; 5 years.

*Claim.*—1st. Connecting the receiver and transmitter of a telephone, both to one rod or carrier so as to form a portable telephone which can be grasped and carried in the hand and simultaneously placed in position opposite or against the ear and the mouth respectively of the user, substantially as described with reference to figure 1 of the drawings. 2nd. Constructing telephonic transmitters of two diaphragms, discs or plates separated from each other by insulating material, so as to form a recess or cavity between them to contain divided or powdered carbon or its equivalent, a space being left between the outward surfaces of the diaphragms and the holder in which they are secured to admit of free vibration, substantially as described with reference to figure 2 of the drawings. 3rd. The telephonic receiver, as described, with reference to figures 3 and 4 of the drawings, the said receiver being provided with a circular or coiled magnet, one pole of which is carried inwards to the center to receive the bobbin so that the body part of the magnet and the coil are situated in or about the same plane.

#### No. 17,558. Pipe Grapple. (*Tenaille à tuyau.*)

Elisha K. Green, Los Angeles, Cal., U. S., 1st September, 1883; 5 years.

*Claim.*—1st. A pipe-grapple, consisting of the two jaws A B hinged together and provided with the connecting-link C, substantially as described. 2nd. In a pipe-grapple, the hinged jaws A B formed with concaves *h*, substantially as and for the purpose specified.

#### No. 17,559. Wire Woven Mattress and other Spring Beds. (*Matelas de fil de fer tissé et autres lits à ressorts.*)

William C. Norman, Montreal, Que., 1st September, 1883; 5 years.

*Claim.*—In combination, with the head and foot, of an iron bedstead, a woven wire mattress frame composed of head bars B and side rails C secured together by castings A holding the ends of both, and provided with pins D setting into shoulders E on the posts, all as set forth and for the purposes described.

#### No. 17,560. Elevator. (*Élévateur.*)

Levi Daso, Pioneer, Ohio, U. S., 1st September, 1883; 5 years.

*Claim.*—1st. In an elevator, the combination of the platforms D D<sub>1</sub> provided with suitable guide rollers with the grooved standards A, substantially as shown and described. 2nd. In an elevator, the combination of the platforms D D<sub>1</sub> provided with suitable guide rollers with the grooved standards A, cables secured to said platforms and extending over suitable pulleys at the top and bottom of the standards, substantially as described. 3rd. In an elevator, the combination of the platforms D D<sub>1</sub> with the standards A, cables G secured to each of said platforms, said cables passing around a drum H, in opposite directions, the construction being such that both elevators may be operated simultaneously by turning the drum alternately in opposite directions, one platform being raised while the other is lowered, substantially as and in the manner described. 4th. In an elevator, two platforms in combination with suitable standards, cables for operating said platforms, said cables passing around a drum in opposite directions, and in connection therewith mechanism whereby said drum may be turned alternately in opposite directions, the construction being such that one of the platforms may be hoisted as the other is lowered, substantially as described. 5th. In an elevator, the combination of a platform provided with guide rollers with grooved standards A<sub>1</sub> and in connection therewith a cable secured to said platform and over a hoisting drum with suitably intervening pulleys, the construction being such that by rotating the drum in opposite directions the platform may be hoisted and lowered, substantially as described. 6th. In an elevator, the combination with suitably grooved standards, of the platforms D D<sub>1</sub>, cables secured to said platforms and to the hoisting drum, the shaft of said drum provided with a suitable pinion, the bevelled gear wheels N<sub>1</sub> located upon a suitable shaft and adapted to mesh with said pinion, and means for bringing said wheels alternately into mesh with said pinion, the construction being that the drum may be operated alternately in opposite directions thereby causing one platform to ascend as the other descends, substantially as described. 7th. In an elevator, the combination with a winding drum provided with a ratchet-wheel, of a forked pawl, substantially as and for the purpose described. 8th. In an elevator, the combination with the standards A, of the platforms D D<sub>1</sub> and hoisting drum connected to said platforms by suitable cables, the shaft of said drum provided with a suitable pinion, bevelled wheels N<sub>1</sub> mounted upon a driving shaft fitted for endwise movement, and in connection therewith means for bringing either of said bevelled gear wheels into mesh with said pinion, substantially as described. 9th. In an elevator, the combination with the platforms, of the safety stop, consisting of the spring pawls F, connecting rods *f*, draw-bar E provided with a spring *c*, substantially as described. 10th. In an elevator, the combination with the platform, of the draw-bar E provided with a spring *e*, said draw-bar constructed with an interior groove *e<sup>1</sup>* in which the cable may be located, the clamp secured to said draw-bar, and in connection therewith a ratchet and pawl drum adapted to tighten the cable, substantially as described. 11th. In an elevator, the guide roller M mounted upon a suitable frame, and frame *m* provided with a suitable pulley *m<sup>1</sup>* adapted to hold the cable upon said roller, the construction being such that the roller may shift from side to side upon its shaft, substantially as and for the purpose described. 12th. In an elevator,