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Note.—Throughout this *Gazette* the names in Italics within parentheses are those of Communicators of Inventions.

Complete Specifications.

Patent Office, Perth,
2nd January, 1903.

NOTICE is hereby given that the undermentioned Applications for the Grant of Letters Patent, and the complete Specifications annexed thereto, have been *accepted*, and are now open to public inspection at this Office.

Any person or persons intending to oppose such applications must leave particulars, in writing, in duplicate (on Form D), of his or their objections thereto, within two calendar months from the date of this *Gazette*. A fee of Ten shillings (10s.) is payable with such notice.

Application No. 4134.—JOSEPH ALEXANDER CARRUTHERS, of High Street, St. James, in the State of Victoria, Australia, Mechanic, "*Improvements in electrically actuated and controlled Clocks and other Time-recording Apparatus.*"—Dated 21st November, 1902.

Claims:—

1. In electrical clocks and other time recording apparatus a pendulum having at its base an armature, an electro-magnet set beneath the said armature, means as claimed in Claim 2 carried by the pendulum for causing make and break of the electrical circuit to energise and de-energise the electro-magnet substantially as and for the purposes described.
2. A hinged plate set in a box supported from pendulum and arranged to cause spring plates to make contact in one direction of travel of pendulum and to pass idly over plate on return substantially as and for the purposes described.
3. In combination bracket *j* adjustable on pendulum rod and supporting box *j*2, a hinged plate *j*3 within the box, spring plates *h*2 *h*3 set beneath said hinged plate, electrical wire connections with the spring plates and cell or battery substantially as and for the purposes described.
4. The combination and arrangement of the several parts for the purposes described and substantially as illustrated on the accompanying drawings.

Specification, 6s. Drawings on application.

Application No. 4135.—JOSEPH ALEXANDER CARRUTHERS, of High Street, St. James, in the State of Victoria, Australia, Mechanic, "*Electrically actuated and controlled Clock.*"—Dated 21st November, 1902.

Claims:—

1. In electrically actuated and controlled clocks a pendulum having at its base an armature, an electro-magnet set beneath the said armature, means carried by the pendulum for causing make and break of electrical circuit to energise and de-energise the electro-magnet, a rod *l* oscillated by the pendulum and pivoted in a block *s* that limits its travel and actuating a bar *m*, an escapement carried by the bar *m* and an escapement wheel on spindle actuated by the escapement substantially as and for the purposes described.
2. In electrically actuated and controlled clocks in combination a pendulum, an armature at its base, an electro-magnet beneath the armature a bracket *h*1 carrying spring plate *h*3, bracket *h* carrying spring plate *h*2, a hinge plate *j*3 adjustably supported from the pendulum so as to bear on the plate *h*3 at intervals, a rod *l* oscillated by the pendulum and pivoted in block *s* that limits its travel, a bar *m* attached to rod *l* and carrying escapement *n n*1 *n*2 a ratchet wheel engaging with escapement and set on a spindle from which the dial mechanism of the clock is actuated substantially as and for the purposes esc ribed.
3. The combination and arrangement of the whole of the parts for the purposes described and substantially as illustrated on the accompanying drawings.

Specification, 7s. 6d. Drawings on application.

Application No. 4142.—CONSTANTINE ALEXANDER HEGE, Manufacturer, of Salem, in the County of Forsyth, State of North Carolina, U.S.A., "*Machine for Cutting Railroad Cross-ties.*"—Dated 25th November, 1902.

Claims:—

1. In a cross-tie cutting machine, a main frame comprising vertically disposed head and tail frames and a cutter head shaft mounted therein, in combination with a sliding log carrying frame comprising vertical head and tail slides moving on ways on the frames and carrying head and tail stocks, and means for rotating the head stock.
2. In a cross-tie cutting machine, a main frame comprising vertically disposed head and tail frames and a cutter head shaft mounted therein, in combination with a sliding log carrying frame comprising head and tail slides moving on ways on the frames and carrying head and tail stocks, means for rotating the head stock, and means extending between the two slides of the log carrying frame for bracing them against outward strains.
3. In a cross-tie cutting machine, a main frame comprising vertically disposed head and tail frames and a cutter head shaft mounted therein, in combination with a sliding log carrying frame comprising head and tail slides moving on ways on the frames and carrying head and tail stocks, means for rotating the head stock, bearings in the head and tail slides for the parts carrying the head and tail stocks, arms projecting from opposite sides of each of said bearings and braces connecting the opposite arms.
4. In a cross-tie cutting machine, the combination of a main frame carrying a gaug of rotating cutters, a log carrying frame sliding in ways thereon, a head stock carried by one side of the sliding frame, a tail stock carried by the other, and braces extending between said two slides and arranged respectively in planes above and below the ways in which the sides slide.
5. In a cross-tie cutting machine, the combination of a stationary frame comprising horizontally slotted vertical end members, a cutter shaft mounted in bearings in said members in rear of the slots, a log carrying frame sliding on said members, a power-driven head stock shaft extending through the slot in one of said members and a tail stock and its support extending through the slot in the other of said members
6. In a cross-tie cutting machine, the combination of a stationary frame comprising horizontally slotted vertical end members, a cutter shaft mounted in bearings in said members in rear of the slots, a log carrying frame sliding on said members, a power-driven head stock shaft extending through the slot in one of said members, a tail stock and its power actuated shaft or pis on extending through the slot in the other of said members.
7. In a cross-tie cutting machine, the combination of a main frame, a gang of rotating cutters, a main driving shaft, a movable log carrying frame, normally inactive head and tail stocks carried thereby, a rotatable "former" also carried thereby whose axis is coincident with that of the head and tail stocks, mechanism for advancing the carriage toward and retracting it from the cutters, mechanism whereby the head stock and "former" are rotated when the carriage is advanced to the cutters and means, under the control of the operator, for causing the rotation of the "former" by power from the main shaft when the frame is in its retracted position, to thereby adjust the "former" with reference to the cross section of the log to be cut.
8. In a cross-tie cutting machine, the combination of a stationary main frame, a gang of rotating cutters mounted therein, a movable log carrying frame mounted thereon, head and tail stocks carried by the movable frame and power devices carried by the log frame and controlled by the operator for actuating the tail stock.
9. In a cross-tie cutting machine, the combination of a stationary main frame, a gang of cutters rotating therein, a movable log carrying frame, head and tail stocks carried thereby, a piston rod on which the tail stock is mounted, its piston, fluid pressure cylinder and valve.
10. In a cross-tie cutting machine, the combination of a main frame, a gang of cutters carried thereby, a movable log carrying frame mounted hereon, head and tail stocks and a "former" carried by the movable

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