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

Patent Office, Perth,
1st January, 1904.

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. 4744.—NATHANIEL LOMBARD, Mechanical Engineer, of 81 Thomas Street, Worcester, in the County of Worcester and State of Massachusetts, United States of America, "*An improved Governor for controlling the speed of Motors or like powers.*"—Dated 17th December, 1903.

Claims:

1. In a governor, the combination with a hollow actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft located in part within said actuating-shaft, power-mechanism acting upon the connectors, and means for controlling the application of power.
2. In a governor, the combination with a hollow actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft located in part within said actuating-shaft, a power-cylinder acting upon the connectors, and a valve controlling the admission of pressure to the cylinder.
3. In a governor, the combination with an actuating-shaft, of two oppositely-rotating driving-shafts, pairs of co-acting clutch-members, one member of each pair being secured to the actuating-shaft and the other to a driving-shaft, a power-cylinder acting upon one of the clutch-members of each pair, and a valve controlling the admission of pressure to the cylinder.
4. In a governor, the combination with a hollow actuating-shaft, of two oppositely-rotating driving-shafts, pairs of co-acting clutch-members carried by the actuating-shaft and driving-shafts, a rod movable within the actuating-shaft, and flexible members connecting the rod and one of each pair of clutch-members.
5. In a governor, the combination with an actuating-shaft, of two oppositely-rotating driving-shafts, an outer clutch-member fast upon each driving-shaft, a pair of arms fast upon the actuating-shaft, a divided ring carried by each arm within the outer clutch-member, means for expanding the ring, power-mechanism acting upon the expanding-means, and means for controlling the application of power.
6. In a governor, the combination with an actuating-shaft, of two oppositely-rotating driving-shafts, an outer clutch-member fast upon each driving-shaft, a pair of arms fast upon the actuating-shaft, a divided ring carried by each arm within the outer clutch-member, a toggle-lever connecting the parts of the ring, a flexible member connected with the toggle-lever, a power-cylinder connected with the flexible member, and a valve controlling the admission of pressure to the cylinder.
7. In a governor, the combination with a hollow actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft located in part within said actuating-shaft, power-mechanism acting upon the connectors to cause the rotation of the actuating-shaft in one direction or the other, and automatic means for counteracting the effect of the power-mechanism upon the connectors.

8. In a governor, the combination with a hollow actuating-shaft, of two oppositely-rotating driving-shafts, pairs of co-acting clutch members one member of each pair being secured to the actuating-shaft and the other member to a driving-shaft, a power-cylinder acting to effect the engagement of the clutches, and means for disengaging the clutches independently of the power cylinder.

9. In a governor, the combination with an actuating-shaft, of two oppositely-rotating driving-shafts, clutches connecting the driving-shafts and actuating-shaft, a lever connected with the clutches at a point intermediate its ends, power-mechanism acting upon one end of the lever, and mechanism connected with the actuating-shaft for moving the other end of the lever.

10. In a governor, the combination with an actuating-shaft, of two oppositely-rotating driving-shafts, clutches connecting the driving-shafts and actuating-shaft, a lever connected with the clutches at a point intermediate its ends and provided at each end with gear-teeth, a rack meshing with one set of gear-teeth, a power-cylinder for operating the rack, a worm meshing with the other set of teeth, and gearing for rotating the worm from the actuating-shaft.

11. In a governor, the combination with a hollow actuating-shaft, of two oppositely-rotating driving-shafts surrounding the actuating-shaft, an outer clutch-member fast upon each driving-shaft, co-acting inner clutch-members fast upon the actuating-shaft, a rod with *n* the actuating-shaft connected with the inner clutch-members, a lever connected with the rod, and means for applying power to the opposite ends of the lever.

12. In a governor, the combination with a hollow actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft located in part within said actuating-shaft, power-mechanism acting upon the connectors, means for controlling the application of power, and a centrifugal mechanism for actuating the controlling-means.

13. In a governor, the combination with an actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft, power-mechanism acting upon the connectors, means for controlling the application of power, a primary weight-support rotatable from the motor, a secondary weight-support mounted to turn on the primary-support and yieldably connected therewith, a centrifugal weight carried by the secondary-support, and a connector between the weights and controlling-means.

14. In a governor, the combination with an actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft, power-mechanism acting upon the connectors, means for controlling the application of power, a centrifugal weight rotatable from the motor, a rack mounted upon the weight, and a gear carried by the controlling-means and meshing with the rack.

15. In a governor, the combination with an actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft, power-mechanism acting upon the connectors, means for controlling the application of power, a centrifugal weight rotatable from the motor, a rack mounted upon the weight, a sleeve carried by the controlling-means provided with an internal thread and with external teeth meshing with the rack, and a threaded member with which the thread of the sleeve co-acts.

16. In a governor, the combination with an actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft, power-mechanism acting upon the connectors, means for controlling the application of power, a rotatable casing, a screw fixed to the casing, a centrifugal weight movable in the casing, a rod connected with the controlling-means, and a threaded member swiveled to the rod co-operating with the screw and geared to the weight.

17. In a governor, the combination with an actuating-shaft, of means for rotating the actuating-shaft in opposite directions, connectors between the rotating-means and actuating-shaft, power-mechanism acting upon the connectors, means for controlling the application of



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Trade Marks