

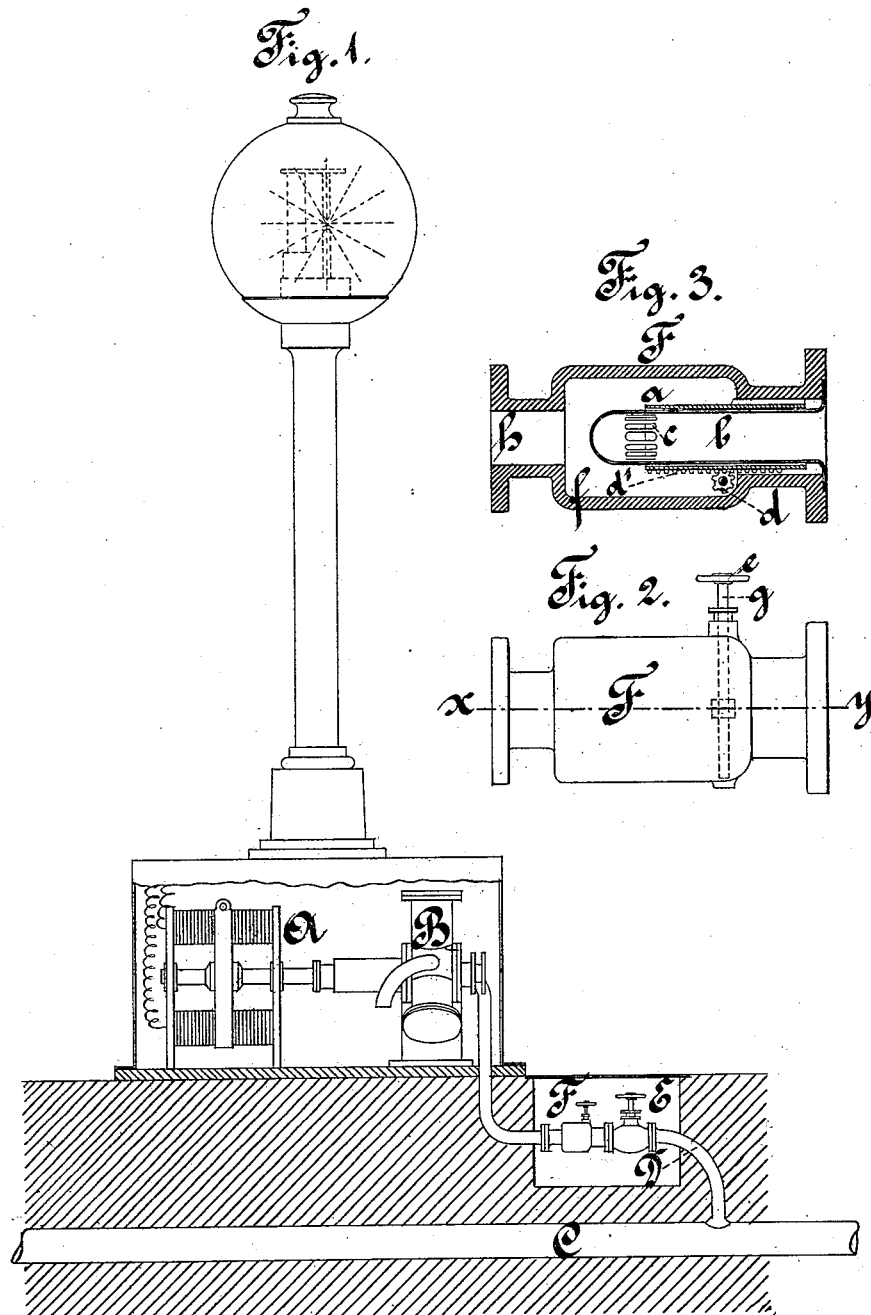
(No Model.)

G. A. TABOURIN.

GOVERNOR VALVE FOR ELECTRIC LIGHTING APPARATUS.

No. 265,290.

Patented Oct. 3, 1882.



Witnesses:

J. D. Petersen

Hugomontze

Inventor:

Georges A. Tabourin

per William Mayer Atty.

UNITED STATES PATENT OFFICE.

GEORGES A. TABOURIN, OF MARSEILLES, FRANCE.

GOVERNOR-VALVE FOR ELECTRIC LIGHTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 265,290, dated October 3, 1882.

Application filed May 11, 1882. (No model.) Patented in France January 5, 1881, No. 140,546.

To all whom it may concern:

Be it known that I, GEORGES A. TABOURIN, a citizen of the French Republic, residing at Marseilles, in the department of Bouches-du-Rhône and French Republic, have invented certain new and useful Improvements in Governor-Valves for Electric Lighting Apparatus, (for which I have obtained a patent in France No. 140,546, dated January 5, 1881,) of which

the following is a specification.

Heretofore the division of the electric current could not be effected in a practical and satisfactory manner, because the smallest disturbance at one point of the circuit would cause an interruption of the current and thereby with the extinction of the lamps of the whole line. I therefore use lamp-posts provided at the foot with a small dynamo-electric machine and a compressed-air engine as a motor therefor, which receives its driving-power from a main reservoir filled with compressed air, and distributing the latter by a convenient system of pipes to the lamp-posts.

The object of my invention is to insert in such pipe system, directly before the compressed-air engines, valves or governors, which are opened automatically for the passage of the compressed air from the pipes to the compressed-air engine only after the compression of the air exceeds a certain degree, thus starting all engines at once, and thereby lighting all lamps at the same moment. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation, partly in section, of a lamp-post with a part of the pipe system. Fig. 2 is a side elevation of the pressure-governor on a larger scale, and Fig. 3 a horizontal section thereof on the line *x y*.

Similar letters refer to similar parts throughout the several views.

A is a dynamo-electric machine, and B a compressed-air engine. The latter is driven by

compressed air, which is conducted from a compressing-machine through the main pipe C and the branch pipe D, passing thereby the valve E and the governor F.

The governor F is composed of the cylindrical shell *f*, the one end of which is closed by the rubber bag *b*. The latter is inclosed in a cylinder, *a*, which is open at both extremities, and may be moved like a telescope by the pinion *d* and the rack *d'* fastened to *a*. At little or no pressure the bag *b* rests entirely inside the cylinder *a*; but when extended by the enlarged presson its bottom comes out and the small holes *c*, becoming open, allow the compressed air to pass the outlet *h* of the shell *f*, wherefrom it is conducted to the compressed-air engine B.

The pinion *d*, which is fastened to the shaft *g*, can be turned by the hand-wheel *e*, and thereby cause the adjusting of the governor F. By moving the cylinder *a* nearer to the outlet *h* of the shell the bag *b* requires more pressure to be extended so as to show the holes *c* outside the cylinder *a*.

Having thus fully described my invention, what I desire to claim and secure by Letters Patent is—

In a governor for regulating the degree of pressure necessary for driving a compressed-air engine and dynamo-electric machine for lighting purposes, the combination of the shell *f* and the cylinder *a*, adjusted by means of rack and pinion, with the rubber bag *b*, provided with openings *c* near its bottom, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of 80 February, 1882.

GEORGES A. TABOURIN.

Witnesses:

LOUIS DESIRÉ COURSAINT,
FREDERIC MATRAN.