

(No Model.)

P. LOCHMANN.  
GOVERNOR.

No. 491,219.

Patented Feb. 7, 1893.

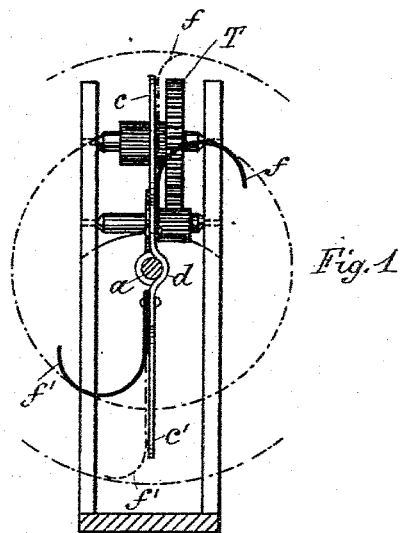


Fig. 1

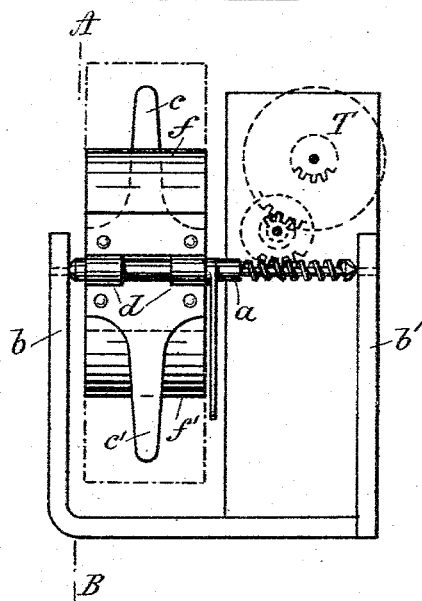


Fig. 2.

Witnesses  
*H. A. [Signature]*  
*H. [Signature]*

Inventor  
Paul Lochmann  
per Heinrich Lade  
Attorney

# UNITED STATES PATENT OFFICE.

PAUL LOCHMANN, OF GOHLIS, NEAR LEIPSIC, GERMANY.

## GOVERNOR.

SPECIFICATION forming part of Letters Patent No. 491,219, dated February 7, 1893.

Application filed June 7, 1892. Serial No. 435,891. (No model.) Patented in Switzerland January 20, 1892, No. 4,487.

*To all whom it may concern:*

Be it known that I, PAUL LOCHMANN, a subject of the King of Saxony, Germany, and a resident of the city of Gohlis, near Leipsic, in the German Empire, have invented a certain new and useful Governor for Regulating the Speed of Spring Driving Mechanism, (for which I have obtained a patent in the Republic of Switzerland, No. 4,487, bearing date January 20, 1892,) of which the following is a specification.

My invention relates to a governor for regulating the speed of spring driving mechanism.

The object of the invention is to regulate automatically the speed of the driving mechanism by means of spring air vanes or fliers which present a larger or smaller surface to the pressure of the air according to the increase or decrease of the speed of the driving mechanism. I attain this object in the manner shown in the accompanying drawings in which

Figure 1 is a sectional end view of the apparatus, the section being taken through line A—B of Fig. 2. Fig. 2 is a view of the governor and driving mechanism.

T is the driving mechanism. *a* the regulator spindle carried in bearings *b*, *b'* and driven by driving mechanism T.

*c*, *c'*, are arms fixed by their boss *d* on spindle *a* to which arms, spring vanes *f*, *f'*, are fixed so as to be diametrically opposite each other. These latter are made of a springing or yielding material and are curved or bent round at their free ends.

The governor works in the following man-

ner: The driving mechanism being set in motion, the spindle *a* and with it spring vanes *f*, *f'*, is driven round by it. When the speed of the driving mechanism increases that of the spring vanes will also increase and by reason of the centrifugal force, the resistance of the springs at the free ends of the vanes will be overcome causing these to extend more or less in the direction (shown in dotted lines) of the radius of the circle which they describe. Thus, the surface of the vanes exposed to the pressure of the air is increased as also is the resistance to their rotation so that the speed of the driving mechanism is lessened and the vanes return to their original curved or bent form. In this way the speed of the driving mechanism is automatically regulated and kept steady. The arms *c*, *c'* prevent the vanes from turning too far backward when the speed of the driving mechanism is very fast.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:—

A governor for driving mechanism comprising a spindle resilient vanes or fliers fixed diametrically opposite each other on said spindle, the free ends of said vanes being curved or bent, for the purpose specified substantially as described and shown.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

PAUL LOCHMANN.

Witnesses:

CARL BORNGRAEBER,  
MAX LOCHMANN.