

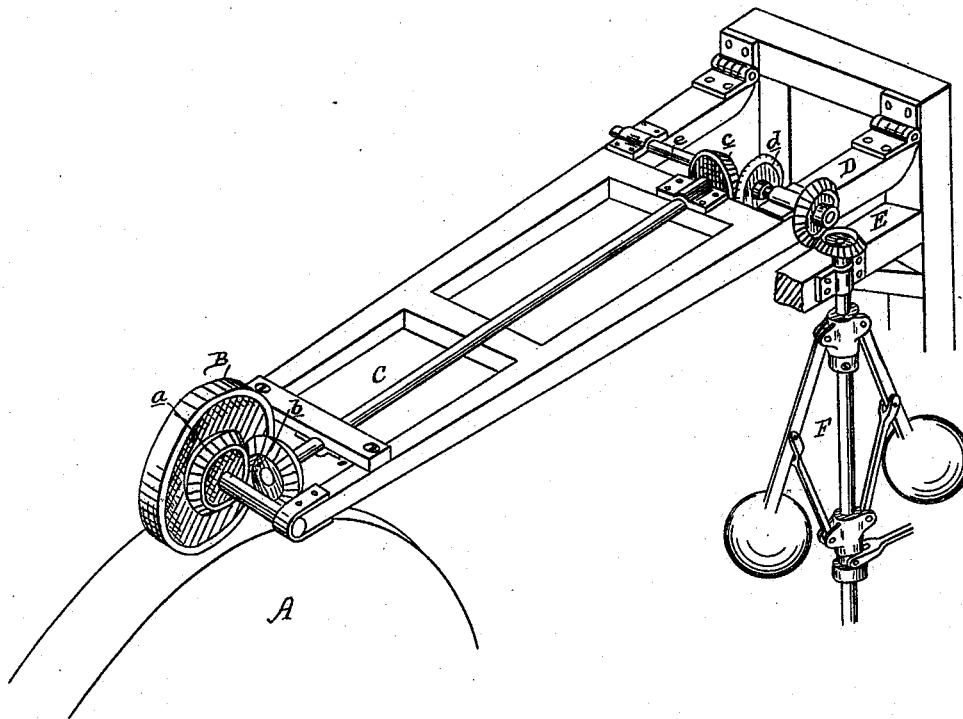
(No Model.)

W. M. FERRY.

DEVICE FOR OPERATING STEAM ENGINE GOVERNORS.

No. 260,090.

Patented June 27, 1882.



Attest
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By
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UNITED STATES PATENT OFFICE.

WILLIAM M. FERRY, OF PARK CITY, UTAH TERRITORY.

DEVICE FOR OPERATING STEAM-ENGINE GOVERNORS.

SPECIFICATION forming part of Letters Patent No. 260,090, dated June 27, 1882.

Application filed April 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. FERRY, of Park City, in the county of Summit and Territory of Utah, have invented new and useful Improvements in Devices for Operating Governors of Steam-Engines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification.

The nature of this invention relates to certain new and useful improvements in devices for operating the governors of steam-engines, especially adapted to control the movements of the governor where the ordinary means for controlling such movement are useless, or comparatively so.

The invention consists in the peculiar arrangement and operation of the various parts of the device, as more fully hereinafter described.

In the accompanying drawing, wherein my invention is shown in elevation as deriving its motion from a section of a balance-wheel, A represents such section of balance-wheel, and B a friction-wheel, supported upon a suitable shaft, so that the periphery of the two wheels A B may be in constant frictional contact.

Upon the face of the wheel B, or upon the same shaft, is secured a bevel-pinion, *a*. This pinion engages with a similar pinion, *b*, secured upon the shaft C, which is also provided with another similar pinion, *c*, which engages with still another similar pinion, *d*, secured to a counter-shaft, *e*, or to the face of the pinion D, secured upon said counter-shaft *e*. This pinion

D engages with the pinion E, which is secured upon the governor-shaft F. These parts are all supported by a light frame swinging upon the governor-shaft, so that as the speed of the fly-wheel or other suitable part of the engine increases or diminishes such changing speed is immediately communicated to the governor.

This device is peculiarly adapted for controlling the governors of steam-engines where it is almost or quite impracticable to use any of the ordinary means.

What I claim as my invention is—

1. A steam-governor and its operating means, consisting of a hinged frame having journaled therein a transverse shaft carrying two beveled gears, which mesh with and connect similar gears upon the governor-standard and upon a longitudinal shaft having a beveled gear, which meshes with and connects a friction-wheel journaled in the hinged frame, the gravity of said frame and carried mechanisms serving to hold the said friction-wheel in contact with a fly-wheel or the like, substantially as set forth.

2. The hinged frame D, carrying transverse shaft *e* and longitudinal shaft C, the beveled gears, and the friction-wheel B, combined with the governor F, fly-wheel A, and friction-wheel B, the latter being journaled in the hinged frame and held in contact with the said fly-wheel by the gravity of the frame D, as and for the purposes specified.

WM. M. FERRY.

Witnesses:

H. S. SPRAGUE,
E. SCULLY.