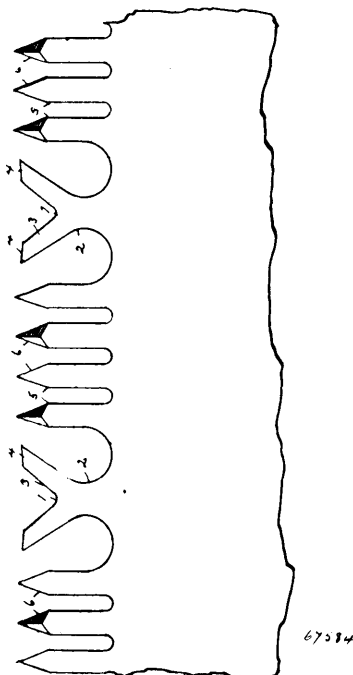


frame, the combination of a continuous tube consisting of two members angularly located relatively to each other, having a flattened intermediate portion forming a loop, a crank hanger tube secured in said loop, and a fork having a flattened portion joining the two members thereof and secured to said tube intermediately of the latter and said loop, substantially as set forth. 8th. In a bicycle frame, the combination of a continuous tube consisting of two members angularly located relatively to each other, having a flattened intermediate portion forming a loop, a crank hanger formed with a circumferential and a longitudinal depression upon its outer surface, and a fork consisting of two members which are joined by a flattened portion, said loop, secured in said circumferential depression and said flattened portion secured in said longitudinal depression intermediately of said tube and loop, substantially as set forth.

No. 67,584. Saw Blade. (*Lame de scie.*)



Charles E. Guenther, Knowlton, and Peter Murray, Wausan, both in Wisconsin, U.S.A., and Edward Layton Anderson, Whitney, Ontario, Canada, 1st June, 1900; 6 years. (Filed 18th May, 1900.)

Claim.—The design for a saw blade, substantially as shown and described.

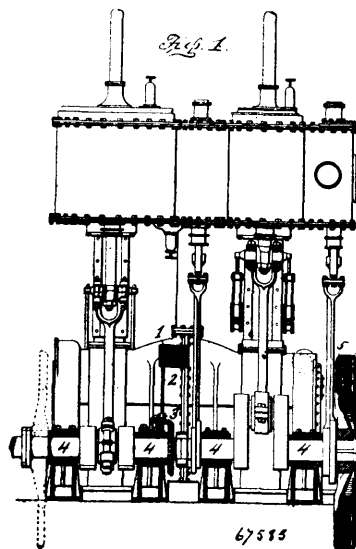
No. 67,585. Engine Governor.

(*Gouverneur de machine à vapeur.*)

Elmer Ambrose Sperry, Cleveland, Ohio, U.S.A., 1st June, 1900; 6 years. (Filed 15th March, 1900.)

Claim.—1st. As a governor for prime movers, a rotating shaft, a member connected for rotation with the shaft, presenting a braking face, a non-rotatable brake co-operating with such face, and an automatic means for varying the brake application. 2nd. As a governor for prime movers, a rotating shaft, a member connected for rotation with the shaft, presenting a braking face, a non-rotatable brake co-operating with such face, and electrically actuated means for varying the brake application. 3rd. As a governor for prime movers, a rotating shaft, a member connected for rotation by the shaft, presenting a braking face, a non-rotatable brake co-operating with such face, electrically actuated means for varying the brake application, a mechanically driven electrical generator supplying the said means, and a driving connection between the generator and the mover. 4th. As a governor for prime movers, a rotating shaft, presenting a braking face, a non-rotatable water jacketed brake co-operating with such face, and means for automatically varying the braking pressures. 5th. As a governor for prime movers, a friction brake rotatably connected with the mover, a device for cutting off or restriction of the energy located between the source of supply and the mover, and a common means for actuating both the device and the brake. 6th. As a

governor for prime movers, a disc rotatably connected with the shaft of the mover, presenting a moving face or faces, an electro-



magnetic system, presenting a magnetic surface or surfaces, co-operating with the faces of such disc, and means for varying the electrical supply to the magnet. 7th. As a governor for prime movers, a disc rotatably connected with the shaft of the mover, presenting a moving face, an electro-magnetic system, presenting a magnetic surface, co-operating with the face of such disc, means for varying the electrical supply of the magnet responsive to the speed changes of the prime mover and an independent manually actuated means of control. 8th. As a governor for prime movers, a disc rotatably connected with the shaft of the mover, presenting a moving face, an electro-magnetic system, presenting a magnetic surface, co-operating with the face of such disc, and means for reversing the direction of the current in the magnet. 9th. As a governor for prime movers, a disc rotatably connected with the shaft of the mover, presenting a moving face, an electro-magnetic system, presenting a magnetic surface, co-operating with the face of such disc, means for varying the electrical supply to the magnet and a step-by-step controller for the electrical circuits of the magnet. 10th. As a governor for prime movers, a disc rotatably connected with the shaft of the mover, presenting a moving face, an electro-magnetic system, presenting a magnetic surface, co-operating with the face of such disc, means for varying the electrical supply to the magnet, and means called into action by the motion of the braking members for reversing the direction of current to the brake. 11th. In a system of governing for prime movers, an electrical braking device and a governor responsive to speed change, each rotatably connected with a moving part, a source of electrical supply, a plurality of switches for handling the electrical energy to the brake and an operating connection between the switches and the governor. 12th. In an electrical braking system for movers, a power-driven electrical switch for controlling the electrical energy to the brake, a catch for holding the switch out of action and means for releasing the catch. 13th. In an electrical braking system for movers, a power-driven electrical switch for controlling the electrical energy to the brake, a catch for holding the switch out of action, and means operated by a governor responsive to speed changes for actuating the catch. 14th. As a governor for marine engines, a plurality of systems of rotating weights, one actuated by each system of weights, and means for mechanically coupling the parts for opposite movement. 15th. In an electrical brake for movers, a multipolar magnet presenting a plurality of independent electro-magnetic circuits, electrical conductors suitably disposed in reference to the poles, and a plurality of terminals for the said conductors. 16th. In a governor for prime movers, a throttle for the energy or fuel supply, a piston for operating such throttle, a floating link valve operating system controlling said piston, an electro-magnet for controlling one of the pivots of the link, and a means for regulating the current supply to the electro-magnet. 17th. In a governing system for an engine, a disc upon the engine shaft, and a co-operating non-rotatable friction clutch mounted upon the main engine frame or bed. 18th. In an electro-magnet friction device, a disc having circular grooves in its face, transverse grooves connecting the circular grooves, leaving sector-like projections and windings disposed within the grooves wound upon three sides only of the said projections.