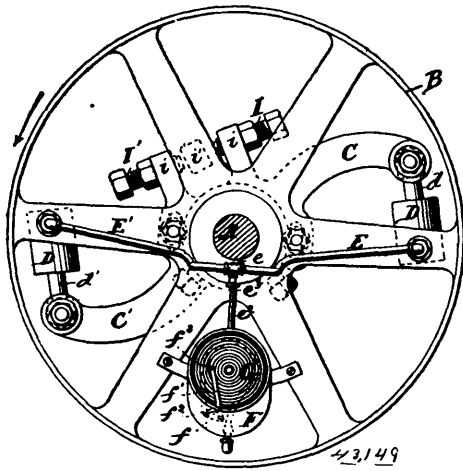


inclosing casing C, and felly H, substantially as described. 7th. In a pneumatic tube for bicycles, the combination with the air tube A, of an inclosing casing of flexible material C, and a loop or strip E, between the stitched edges of the casing and the tube, substantially as and for the purpose set forth.

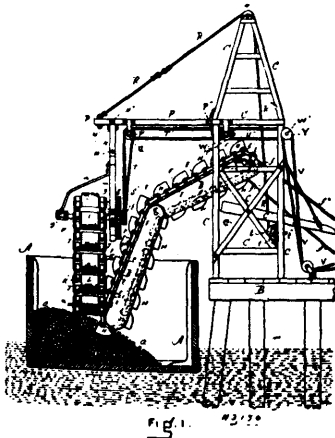
**No. 43,149. Dynamometer.** (*Dynamomètre.*)



Edgar James Wood, New York, State of New York, U.S.A., 7th June, 1893; 6 years.

*Claim.*—1st. In combination, a power transmitting device, a power applying device having a yielding connection with the power transmitting device, a record receiving disc or strip free to travel, an indicator arm adapted to be moved when the power transmitting and power applying devices move relatively to each other, and means for operating the record receiving disc or strip independently of the power transmitting and power applying devices, substantially as set forth. 2nd. In combination, a power transmitting device, a power applying device having a yielding connection with the power transmitting device, a record receiving disc or strip free to travel and mounted on a support fixed relatively to the movements of the power transmitting and power applying devices, an indicator arm adapted to be moved when the power transmitting and power applying devices move relatively to each other, and means for operating the record receiving disc or strip independently of the power transmitting and power applying devices, substantially as set forth. 3rd. In combination, a power transmitting device, a device for applying power to the power transmitting device, means for confining a body of fluid to form a connection between the power transmitting and power applying devices, and an indicator under the control of said confined body of fluid for indicating the varying loads upon the power transmitting device, substantially as set forth. 4th. In combination, a power transmitting shaft, a pulley loosely mounted on the shaft, means for confining a body of fluid to form a connection between the pulley and shaft, an indicator arm under the control of said body of fluid, and a dial having a pre-determined movement past the indicator arm, substantially as set forth. 5th. In combination, a power transmitting shaft, a pulley loosely mounted on the shaft, means for confining a body of fluid to form a connection between the pulley and the shaft, an indicating device held against movement with the pulley, and a fluid connection between the indicating device and the said means for confining a body of fluid, substantially as set forth.

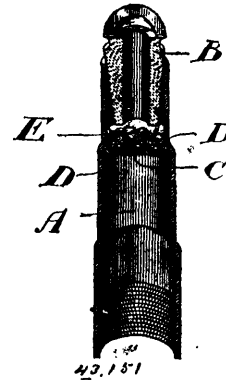
**No. 43,150. Conveyer for Coal.** (*Transport à charbon.*)



Theodore Harding Lewis, East Boston, Massachusetts, U.S.A., 7th June, 1893; 6 years.

*Claim.*—In a coal conveying apparatus, the combination of a jointed conveyer supported by the main portion of the frame, a pair of adjustable auxiliary conveyers arranged to be rotated, swung and spread apart at their lower ends, and a frame hinged to the main frame for supporting said auxiliary conveyers, substantially as set forth.

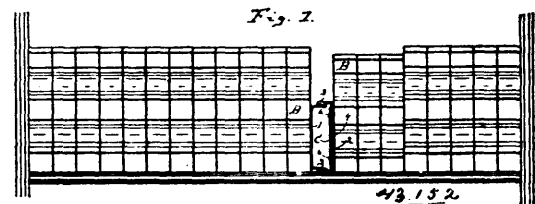
**No. 43,151. Gas Burner.** (*Bec à gaz.*)



John William Hayward, Toronto, Ontario, Canada, 7th June, 1893; 6 years.

*Claim.*—1st. A perforated disc, placed in a burner a short distance from the bottom of the tip, a small piece of cotton wool being placed between the disc and the bottom of the disc, substantially as and for the purposes specified.

**No. 43,152. Book Support.** (*Support pour livres.*)



Artemis Hiram, and Jacob Astor, both of Wichita, Kansas, U.S.A., 7th June, 1893; 6 years.

*Claim.*—1st. A book support for libraries, consisting of a two part frame of wire or other equivalent material, the said parts being yieldingly connected together, and adapted to exert force in opposite directions, substantially as and for the purpose set forth. 2nd. A book support for libraries, consisting of the two part wire frame, the said parts being yieldingly connecting together and adapted to exert pressure in opposite directions and of a card holder incorporated in the construction of one frame part, substantially as and for the purpose set forth. 3rd. The herein described book support comprising the opposite frame parts 1 and 2 connected together by means of bends or coils as set forth, and the card holder fixed to one of said parts and consisting of the parts to form a back support, and the spring arms for clamping the face of a card, substantially as specified and shown.

**No. 43,153. Machine for Making Nets.**

(*Machine pour faire des filets.*)

Henry W. Thurston, Woodside, New York, U.S.A., 7th June, 1893; 6 years.

*Claim.*—1st. Shuttles in combination with a table with races on which they are supported, shuttle carriers alternately engaging with opposite ends of said shuttles, and means for alternately releasing said carriers from said shuttles, substantially as described. 2nd. A double pointed shuttle with means for holding a bobbin therein and a recess in each end, substantially as described. 3rd. A double pointed shuttle with recesses in its ends, and a bobbin supported thereon. 4th. Shuttles in combination with a table having races on which said shuttles are supported, hooks on said tables, means for operating said hooks, and a central passage in said table, said hooks being on opposite sides of the said passage, and alternately engaging with the shuttles, substantially as described. 5th. The shuttles and shuttle races, a table for said races having a central passage in combination with rotatable heads with hooks mounted on said tables, arms carrying said heads, means for operating said arms, and cams on the frame, said heads, arms and cams being in pairs, one of each