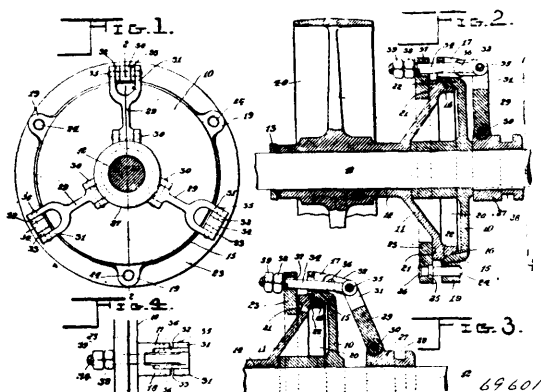
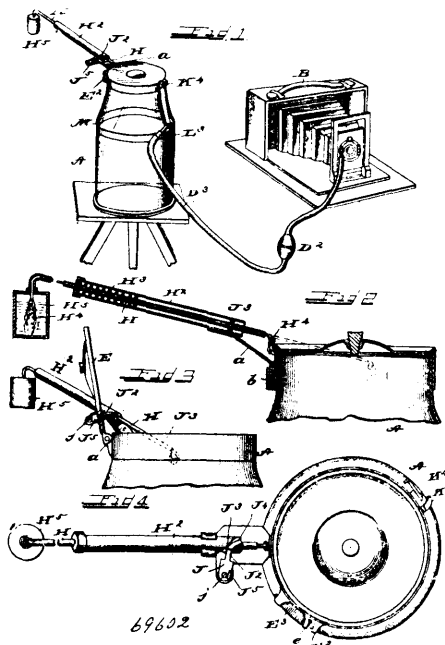


**No. 69,601. Friction Clutch. (*Embrayage à friction.*)**

François-Xavier Drolet, St. Roche, Quebec, Canada, 5th December, 1900; 6 years. (Filed 31st August, 1900.)

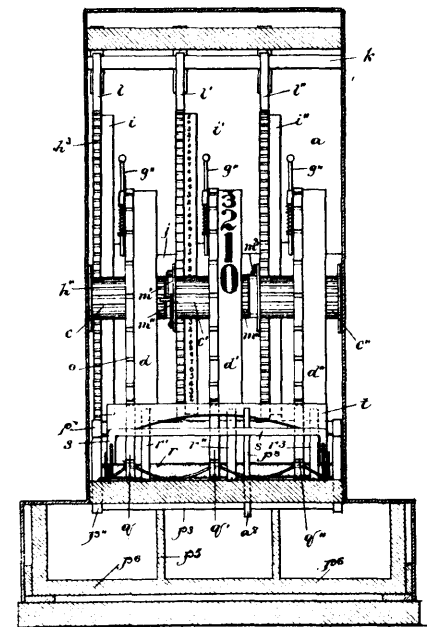
**Claim.**—1st. In a clutch, the combination with a driving member, a driven member, a loosely mounted ring and a shiftable collar, of group of short straight links arranged in pairs and with each pair connected pivotally to one clutch member, a series of draw bolts each loosely connected to the other clutch member, and a series of lever arms pivoted to the collar, each lever arm being pivoted by a common pin or bolt to one of the draw bolts and to a pair of the short links, the latter affording a shiftable fulcrum connection between each lever arm and one clutch member, substantially as described. 2nd. A clutch, comprising a member having integral bracket lugs, another member in opposing relation to the first member, a ring loosely mounted on the second member, groups of short straight links pivoted in pairs to the bracket lugs and with the links of each pair in lateral spaced relation one to the other, draw bolts passing loosely through the ring and the bracket lugs and disposed between the links of the pairs, each draw bolt having a nut adapted to impinge the ring, and said draw bolt capable of a limited loose movement relative to said ring, a shiftable collar, and lever arms pivoted to the collar and each having a pivotal connection at a common point with one pair of links and with the other-wise free end of the draw bolt, substantially as described.

**No. 69,602. Means for Producing Artificial Light in Photography. (*Moyen de production de lumière artificielle dans la photographie.*)**

Arthur H. Spurr and William V. McQuaid, Des Moines, Iowa, U.S.A., 5th December, 1900; 6 years. (Filed 7th December, 1899.)

**Claim.**—1st. Means for subjecting the sensitive plate of a photographic apparatus to the action of artificial light consisting in a

diaphanous gas containing reservoir having a suitable gas therein capable of illumination, and means for opening the reservoir to permit ignition of the gas as the sensitive plate is exposed. 2nd. A device for exposing the sensitive plate of a photographic apparatus and also produce an artificial light, comprising a pneumatic device connected with and operating the shutter, a diaphanous gas reservoir normally sealed, and pneumatically operated means for opening the reservoir, together with an ignition device which is operated to ignite the gas of the reservoir as the shutter is operated to expose the plate. 3rd. An apparatus for exposing the sensitive plate of a photographic apparatus and also produce an artificial light at or about the same time as the said exposure, consisting of a pneumatic generating member for generating a pneumatic pressure, a diaphanous reservoir containing an illuminant gas, means for operating the gas reservoir, and pneumatic connections between said means and the pneumatic generating member, and also between said member and the shutter, together with an ignition device operated when the reservoir is uncovered whereby the sensitive plate is exposed and the gas ignited from one and the same point of manual operation. 4th. In a photographic apparatus, a diaphanous gas reservoir, an illuminant gas therein, a cover pivoted thereon, a yielding pressure device tending to open the cover, a holding trigger for the cover, a pneumatic member for generating an air pressure to operate the trigger and release the cover, an ignition device which is brought into a position to ignite the gas in the reservoir when the cover is released, and a camera shutter, together with pneumatic connections between the shutter and the pneumatic member. 5th. In a photographic apparatus, a device for producing artificial light, consisting of a diaphanous gas reservoir, a movable cover therefor, an ignition device, the igniting flame of which is near the reservoir, said ignition device comprising in construction a holding trigger, a flame carrying member withheld by said trigger, means whereby said trigger is released when the gas reservoir is opened, and a yielding pressure device for advancing the flame carrier. 6th. In a photographic apparatus, a device for producing artificial light, consisting in a diaphanous gas reservoir, a movable cover therefor, an ignition device, the igniting flame of which is near the reservoir, said ignition device comprising in construction a holding trigger, a flame carrying member withheld by said trigger, means whereby said trigger is released when the gas reservoir is opened, a yielding pressure device for advancing the flame carrier, and a camera shutter, together with a lock for the cover, and a pneumatic device for concurrently operating said lock to release the cover and also actuate the shutter. 7th. In a photographic illuminating device, the combination with the shutter, of a camera, of a plurality of diaphanous reservoirs containing an illuminating gas, a pneumatic device for operating the shutter to expose the plate, a trigger for each of the covers of said reservoirs, a connecting member between said pneumatic device and the triggers, and means for connecting any one or more of said triggers to the connecting member, together with an ignition device for each reservoir.

**No. 69,603. Cash Register. (*Registre à monnaie.*)**

Joseph M. Mackin and Clarke R. Morrison, both of Palmerston, Ontario, Canada, 5th December, 1900; 6 years. (Filed 21st August, 1900.)