

between the said pincer mechanism and its actuating mechanism and constituting a spring-bearing for the actuating mechanism in either direction from the central position, substantially as described. 18th. In a lasting machine, the combination of the pincers, the actuating mechanism for imparting thereto lateral movements for causing the upper to be plaited and a single spring device arranged between the pincers and the said actuating mechanism, and including a rocking connection between the spring member of the device and the said actuating mechanism, arranged to transmit the movements of the actuating mechanism in either direction to the said spring member, substantially as described. 19th. In a lasting machine, the combination of the pincers supported to permit movements in opposite directions for plaiting the upper, the reciprocating, actuating mechanism therefor, a single yielding device interposed between the actuating mechanism and the pincers, including a spring which is put under tension by the said mechanism as it operates to move the pincers in either direction and means for varying the tension of the spring, substantially as set forth. 20th. In a lasting machine, the combination of the pincers, the carrier in which the pincers are mounted, a driver, supported movably in the carrier and arranged to impart lateral movement to the pincers in order to plait the upper, a spring carried by the pincers, and power transmitting mechanism interposed between the spring and the driver and arranged to bear equally upon the said spring, whether the driver be moved in one direction or the other, substantially as set forth. 21st. In a lasting machine, the combination with the pincers, of the reciprocating rod 51, adapted to impart lateral movement thereto, the rocking lever 55, to which the rod is connected and having the arms of equal length, the single spring connected with the pincers, and the bearing carried by the said spring and with which the arms of the said rocking lever are made to bear in whichever direction the rod 51 is moved, substantially as set forth. 22nd. In a lasting machine, the combination of a pincers mechanism and a pivotally connected supporting carrier therefor, a rod 51 supported movably in the carrier, and a yielding power-transmitting mechanism interposed between the rod and carrier, composed of spring 49, levers 13, 15, and supporting studs 11, 42 and 46, substantially as described. 23rd. The combination of the tack hopper shaft, 206, upon which the tack hopper is mounted and recessed or grooved in the direction of its length, whereby it is adapted to be engaged by the shaft, provided with a worm wheel which drives the shaft, 206, the frame work supporting the said shaft and covering the connecting gearing between them and operating mechanism for driving the shaft, substantially as described. 24th. The combination of the tack-hopper 100, the shaft 206 upon which the hopper is mounted, the shaft provided with a worm-wheel which drives the shaft 206, the shaft *k* parallel with the shaft *l*, the connecting gearing between the shafts, the driving shaft 204, connected by gearing with the shaft *k*, the framework supporting the said shafts and covering their connecting gearing and the distributing devices for the tacks, substantially as described. 25th. In a machine for conveying tacks, the combination of the tack-hopper, 100, for holding the mass of tacks, the tilting pan, having converging edges, into which the tacks are conveyed from the hopper, the tack chute, into which the pan delivers the tacks, a support for the pan, upon which it is adjustable, and means for securing the pan to support, in the various positions to which it may be adjusted, the said parts being arranged as described whereby the inclination of the pan to the tack chute may be varied substantially as described. 26th. The combination of the tack-hopper 100, the pan 209, into which the tacks are slowly conveyed from the hopper, the tack chute, into which the pan delivers the tacks, and means substantially as described for adjusting the position of the pan, relatively to the tack chute, substantially as described. 27th. The combination of the hopper 100, into which a mass of tacks are placed, the chute into which the tacks are conveyed from the hopper, the detachable bridge-block, arranged above the tack chute and having a groove in its side, the screw 305, engageable with the said groove to hold the removable bridge-block in place above the tack-chute, substantially as described. 28th. The combination with the hopper, 100, in which is placed a mass of tacks, the tack chute, into which the tacks are delivered from the hopper, the detachable lid 180, for the tack chute and the lock or holding device for securing the said detachable lid upon the chute, consisting of a stud 181, acted upon by the spring 184, and provided with a pin 183, adapted to engage with the recess in the said lid, substantially as described. 29th. In combination, the revolvable tack distributor 81, the rotating driver-shaft and a yielding clutch interposed between the shaft and distributor, against which the latter is revolved, substantially as described. 30th. In combination, the revolvable tack distributor, its rotation driver shaft, the spring-actuated clutch pin, supported to turn with the distributor and yieldingly engage in a recess of the driver-shaft, against which the distributor is revolved, and means by which the distributor is held against rotation of the driver-shaft, substantially as described.

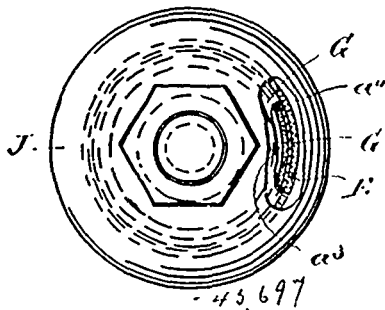
No. 45,697. Gas Governor.

(Régulateur de pression pour le gaz.)

Frank Peterson, Montreal, Quebec, Canada, 4th April, 1891; 6 YEARS.

Claim. 1st. The improved gas governor consisting of an integral body part or casing having an inlet in its bottom and an outlet on its side, and provided with an annular trough at its upper end, a

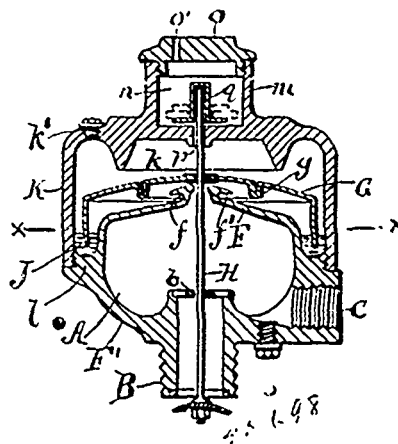
centrally perforated and depressed diaphragm extending over the casing and formed integral with the side walls of the same, sealing fluid partially filling the annular trough, an inverted cup-shaped



float arranged above the diaphragm and having its edge playing in said fluid, a valve stem secured to the float and extending downward therefrom through the diaphragm, and into the inlet passage, a valve secured to the lower end of the said stem and adapted to close the lower end of the inlet and a cap secured to the upper end of the casing and provided on its inner side with a depending annular flange of about the same diameter as the diaphragm. 2nd. The improved gas governor consisting of an integral body part or casing having an inlet in its bottom and an outlet on its side, and provided with an annular trough at its upper end, a centrally perforated and depressed diaphragm extending over the casing and formed integral with the side walls of the same, sealing fluid partially filling the annular trough, an inverted cup-shaped float arranged above the diaphragm, having an intermediate downwardly projecting flange or wall and having its edge playing in said fluid, a valve stem secured to the float and extending downward therefrom through the diaphragm, and into the inlet passage, a valve secured to the lower end of the said stem and adapted to close the lower end of the inlet and a cap secured to the upper end of the casing and provided on its inner side with a depending annular flange of about the same diameter as the diaphragm. 3rd. In a gas governor, a float having a central connection with the valve operating stem, an outer downwardly projecting edge playing in the sealing fluid and an intermediate downwardly projecting flange or wall, for the purpose set forth.

No. 45,698. Gas Governor.

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F. Peterson, Montreal, Quebec, Canada, 4th April, 1891: 6 years.

Claim. 1st. The improved gas governor consisting of an integral body part or casing having an inlet in its bottom, an outlet in its side and a top or diaphragm portion, a part of which forms the inner wall of the trough for the sealing fluid, and also having an annular shoulder or projection in the exterior forming the bottom of said trough, a cover provided on its inner side with a depending annular flange, and having a vertical wall portion forming the external wall of said trough and being secured to said shoulder, sealing fluid in the trough so formed, an inverted cup-shaped float arranged above the diaphragm portion of the body and having its edge playing in said fluid, a valve stem secured to the float and extending downward therefrom through said diaphragm portion and into the inlet passage, and a valve secured to the lower end of said stem and adapted to close the inlet. 2nd. The improved gas governor, consisting of a body part or casing having an inlet in its bottom, an outlet on its side and a top or diaphragm portion, the central part of which is perforated and has an external annular recess guarded by a lateral flange, a cover provided on its inner side with a depend-