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INVENTIONS PATENTED

NOTE.—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

No. 21,346. Vehicle Spring. (*Ressort de Voiture.*)

John P. Callan, Aurora, Ill., U.S., 1st April, 1885; 5 years.

Claim.—1st. The vehicle spring, constructed as described, that is of the two parts or halves A and D, each having a central part substantially straight, terminating at each end in a curve, the parts being joined at their extremities, the upper half having leaves on its under side, and the lower half having leaves on its upper side, the springs being applied to the vehicle with the body or weight connected directly underneath to the lower half D, and with the additional springs underneath the lower half, as shown and described. 2nd. In combination, the described spring, consisting of the parts A, and D, constructed as set forth, the braces 3, and 4, connecting the upper part A, to the axle, the braces 5 connecting the same part to the shafts, A, and the body supported by, or upon, or underneath the lower half D of the spring.

No. 21,347. Rotary Engine. (*Machine Rotatoire.*)

Richard P. Park, South Melbourne, Victoria, 1st April, 1885; 5 years.

Claim.—1st. The rotary adjustable cut-off or expansion valve E, fitted on the engine shaft A, and with or without a governor E, substantially as herein described and explained, and as illustrated in my drawings. 2nd. The rotary adjustable cut-off or expansion valve E, provided with a peripheral groove and a port E, and with the divided metallic ring E, fitted on the engine shaft A, substantially as herein described and explained. 3rd. The metallic arm-piston U, keyed on engine shaft A, in a double flange on one side and concave on the other, and having its end and two edges grooved out to receive strips of metallic packing C, combined with the rotating eccentric ring D, held up by small spiral springs U, substantially as herein described and explained, and as illustrated in my drawings. 4th. The divisional ring D, whose edges abut on the before described arm-piston, and have metallic packing strips D, held forward by spiral springs D, substantially as herein described and explained, and as illustrated in my drawings. 5th. The compensating or wearing pieces K, fitted flush in the cylinder covers A7, and A12, inside said divisional ring D, substantially as and for the purpose herein described and explained, and as illustrated in my drawings. 6th. The arm-piston U, flat on one side and concave on the other, so as to present the same transverse area within the gap of the ring D, at all points of its revolution, combined with the packing D5 in said ring, on the rear side of said piston, and the friction-rollers D7, in said ring at the front side of said piston. 7th. The divisional ring D, whose end edges abut on the before described arm-piston, and are armed with metallic packings, which may both be strips D5, held forward by spiral springs D6, as shown in Fig. 14, or instead one may be provided with a packing roller D7, as shown in Fig. 9, substantially as herein described and explained, and as illustrated in my drawings. 8th. The compensating or wearing pieces K, fitted flush in the cylinder covers A7, and A12, inside said divisional ring D, substantially as and for the purpose described and explained, and as illustrated in my drawings. 9th. The joint piece or pad H, fitted into the recess formed in the bottom of a rotary engine cylinder A, in the manner and for the purpose substantially as herein described and explained, and as illustrated in my drawings. 10th. The combination of the special rotary cut-off chamber valve E, the trigger valve H, operating pin H6, spring H7, gas and air supply pipes H1 and H2, with the cylinder having an outer jacket L, through which a current of cold water

flows and the before-described arm C, piston and divisional ring D, for the purpose of producing a gas engine, substantially as herein described and explained, and as illustrated in Figs. 15, 16, 17 of the drawings. 11th. The governor E5, attached by a tap bolt E6, to the rotary valve E, and controlled by a spiral spring E7, also affixed to valve and governor, all substantially as herein described and explained, and as illustrated in my drawings.

No. 21,348. Laying-out and Embalming Board. (*Table pour Exposer et Embaumer.*)

Noah T. Shaw and William S. Carlile, Columbus, Ohio, U.S., 1st April, 1885; 5 years.

Claim.—1st. A laying out and embalming board, provided with a perforated or cane-bottom, in combination with a frame or posts erected thereon, to support a curtain or covering. 2nd. A laying out and embalming board of perforated hinged folding sections, each section having hinged folding legs. 3rd. The combination, with a perforated laying out board of a canopy top hinged folding legs and an adjustable head-rest. 4th. The combination, with a laying out board for corpses, of a head-rest consisting of a ring and a semi-ring, the former adjustably pivoted to the ends of the latter, and a vertically adjustable bar to which the semi-ring is adjustably pivoted, substantially as described for the purpose specified. 5th. The head-rest of a laying-out and embalming board, consisted of the pivoted ring a, the pivoted semi-ring b, the vertically adjustable bar c, and the clamp screw d, the several parts adapted for adjustment when arranged for use, as herein set forth. 6th. The combination, with the vertically adjustable bar c, having an eye in its upper end, and the clamping screw d, for said bar, of a head-rest consisting of a ring and a semi-ring pivoted together, as described, the said semi-ring having a cylindrical bearing f, forming a pivoted connection with said bar c, and the clamp screw a, for said semi-ring, whereby said semi-ring may be turned and held at an angle to either side, as set forth. 7th. The combination, with a cooling-board, of a head-rest adapted for adjustment to hold the head in any desired position, substantially as described.

No. 21,349. Manufacture of Compounds of India Rubber, Gutta-Percha, etc. (*Fabrication des Compositions de Caoutchouc, Gutta-Percha, etc.*)

Alfred H. Huth, F.S.A., London, Eng., 1st April, 1885; 15 years.

Claim.—1st. The combination resulting from the admixture of india rubber, gutta-percha, or like material, with resins or gums, and with sulphur, the said resins and gums being so combined as to have a melting temperature corresponding to the curing heat, and the material being cured, as herein set forth. 2nd. The combination, with india rubber, gutta-percha and like materials, of resins or gums, previously freed from volatile oils, whether mixed together or separately, as herein set forth. 3rd. The combination of india rubber, gutta-percha and like materials, with resins or gums freed from volatile oil, and with insulite, as herein set forth. 4th. The combination, with india rubber, gutta-percha and like materials, of sulphur and insulite, as herein set forth.

No. 21,350. Rock-Drill. (*Foret de Mine.*)

Frederic A. Halsey, New York, N.Y., U.S., 1st April, 1885; 5 years.

Claim.—1st. In a steam rock-drill or analogous machine, the cylinder, the elongated circumferentially grooved piston and the described means for distributing the steam to both ends of the cylinder, together with steam-induction passages leading from the said circumferential chamber of the piston, and located, one or all, relatively to the piston, as described, so that the piston, in its other stroke, closes the respective inlet ports before it reaches the limit of its stroke, whereby the steam is used expansively during a portion of the stroke of the piston, as specified. 2nd. In a steam rock-drill or analogous machine, the cylinder and elongated circumferentially grooved piston, and the induction and ejection steam passages, for distributing steam to the cylinder, substantially as described, and the single circumferentially-grooved steam-moved valve, working