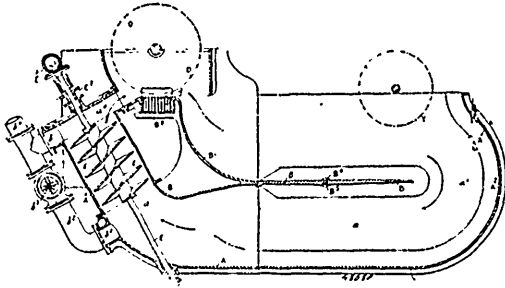
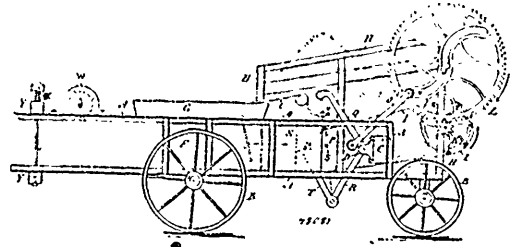


A, of a mid-feather partition B, B<sup>1</sup>, B<sup>2</sup>, dividing it off into pulp circulating spaces *a* to *a'*, substantially as set forth. 2nd. In beating engines, the combination with a vat shell A, of a mid-feather partition B, dividing it off into pulp circulating spaces *a*, *a'*, said



mid-feather being pivoted or hinged at B<sup>1</sup>, or made removable, substantially as set forth. 3rd. In beating engines, the combination comprising a deep vat shell A, a mid-feather partition B, and a recess B<sup>3</sup>, near end of said partition to carry the fixed block D<sup>1</sup>, of beating roll D, substantially as set forth. 4th. In beating engines, the combination comprising a deep vat shell A, a mid-feather partition B, with recess B<sup>3</sup>, for fixed block D<sup>1</sup>, of beating roll D, and a feeding screw worm E, interposed in the lower pulp, circulating space *a'*, between vat shell A, and fixed end face B<sup>2</sup>, of mid-feather B, substantially as set forth. 5th. In beating engines, the combination comprising a deep vat shell A, a mid-feather partition B, and a movable flap plate G at upper part of pulp, circulating space *a*, substantially as set forth. 6th. In beating engines, the combination comprising a deep vat shell A, a mid-feather partition B, and water jet cleaning out pipes F, substantially as set forth.

**No. 48,081. Hay Press. (*Presse à foin.*)**



Peter Lord, Iberville, and Pascal Amesse, Montreal, both in Quebec, Canada, 29th January, 1895; 6 years.

*Claim.*—1st. In a hay press, the cog-driving-wheel L, having diametrically an S-shaped cam path J, in combination with a pitman O, levers Q and R, rods S, and lever T, as set forth to effect two pressing strokes of the plunger at one rotation of said wheel, as set forth. 2nd. The combination with the cog-wheel L, having an S-shaped diametrical cam path J, of the pitman O, having a friction roller N, travelling in said cam path, and a friction roller at the opposite end, levers Q, and R, pivoted at one end to a thrust or resistance block C, and the other ends connected by a rod S, said lever Q, bearing on the lower friction roller at the lower end of the pitman, and a lever T, connecting the plunger and lever R, as set forth. 3rd. The spring fork U, attached to the rod S, for automatic action in pressing the hay into the hopper and bailing chamber, in combination with the levers Q, R, T, pitman O, and cog-wheel L, having diametrically an S-shaped cam path J, as set forth. 4th. A hay press having a measuring indicator W, near the discharge end, said indicator comprising a rotary-wheel to have frictional contact with a bale and a pointer and an index, operating as set forth. 5th. The yoke Y, having springs Z, as and for the purpose set forth.