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INVENTIONS PATENTED.

No. 13,078. Improvements on Egg Beaters.

(*Perfectionnements aux verges de cuisine.*)

Alexander Luttrell, Kincardine, Ont., 9th. July 1881; for 5 years.

Claim.—1st. The combination of the handle A of beater B with the motive power at K. 2nd. The attaching of handle A of beater B to the upright L.

No. 13,079. Improvements on Traction Engines. (*Perfectionnements aux machines de traction.*)

Walter S. Fletcher, St. Catharines, Ont., 9th July, 1881; for 5 years.

Claim.—1st. The improved intermediate equalizing gearing consisting of cog wheels I, bevelled cog wheels 1 and 2, intermediate disk 3, carrying bevelled pinions or friction wheels 4 and having a bevelled cog-faced periphery C, meshing with driving pinion G on diagonal shaft F, in combination with intermediate shaft H having cog wheel I, said wheels I J, meshing with cog wheels K L, and traction wheels N, journalled on axle M. 2nd. The intermediate shaft H mounted in adjustable bearings, on brackets having slotted faces, and diagonal shaft F having a universal joint connection with a bracket carrying cog-wheel E, whereby the shaft H with the differential gear can be moved from disengagement with the traction wheels N.

No. 13,080. Improvements on Railway Wheels. (*Perfectionnements aux roues des railroutes.*)

The Atwood Railway Wheel Company, New York. (Assignee of Anson Atwood, Brooklyn.) N. Y., U. S., 9th July, 1881; (Extension of Patent No. 6,263.)

No. 13,081. Horse Power Link. (*Chaînon de manège.*)

Barnard L. Olds, St. Albans, Vt., U. S., 9th July 1881; (Extension of Patent No. 6,288.)

No. 13,082. Improvements on Eave Trough Formers. (*Perfectionnements aux moules à gouttières.*)

James Dunn, Port Hope, Ont., 9th July, 1881; (Extension of Patent No. 12,622.)

No. 13,083. Improvements on Eave Trough Formers. (*Perfectionnements aux moules à gouttières.*)

James Dunn, Port Hope, Ont., 11th July, 1881; (Extension of Patent No. 12,622.)

No. 13,084. Barn Door Hanger. (*Pature de porte d'étable.*)

Samuel H. Moore and Edward Y. Moore, Chicago, Ill., U. S., 11th July 1881; (Extension of Patent No. 6,295.)

No. 13,085. Improvements in Lubricators. (*Perfectionnements dans les graisseurs.*)

Luther B. Bailey, London, Ont., 11 July, 1881; for 5 years.

Claim.—The combination of the valve chamber V and gauge glass G with reservoir R.

No. 13,086. Improvements on Machines for Perforating Paper for Telegraphic Purposes. (*Perfectionnements aux machines à percer le papier pour l'usage télégraphique.*)

Frank Anderson, Peekskill, and Theodore M. Foote, Brooklyn, N. Y., U. S., 12th July, 1881; for 5 years.

Claim.—In a telegraphic perforator, a movable punch head actuated by suitable mechanism, to operate in conjunction with a series of punches to perforate the paper. 2nd. The combination of the key, levers and supplementary levers, for operating the punch selecting bars. 3rd. In combination with the key levers, a series of punch selecting bars and mechanism for alternating the same, to select the punches in the punch head or carrier. 4th. The combination of a reciprocating punch head carrying a series of movable punches, and a die with a series of separately and independently adjustable punch selectors, adapted to be brought into the paths of the said punches and hold them while the die is forced against them, and mechanism for operating said punch head, and punch selectors respectively. 5th. The combination of the key levers, the supplementary levers actuated by said key levers, devices for giving said supplementary levers a lateral motion, the notched punch selecting bars and the reciprocating punch head, carrying the series of movable punches and die. 6th. In combination with the key levers and the punch head, mechanisms for operating the punch head or carrier at each depression of a key. 7th. In combination with the series of separately movable key levers, punch selectors and punch head carrying a series of punches mechanism for operating the punch head and punch selectors at each depression of a key. 8th. In combination with the key levers of a perforating apparatus, a movable punch head, a rotating shaft and loosely fitting sleeve, and mechanism for connecting the sleeve to the shaft at the depression of the key lever to operate the punch head. 9th. In combination with a series of key levers, a series of punch selectors operated by said levers and a reciprocating punch head carrying a series of movable punches, a rotating shaft carrying a loosely mounted sleeve adapted to operate the punch head through intermediate connections, and mechanism for locking the sleeve to the shaft simultaneously with the depression of each key lever. 10th. In combination with the key levers and mechanism for actuating the feed, the auxiliary bars for regulating the motion of the paper feed to correspond with the length of the perforations forming each character. 11th. In combination with the key levers, punch selecting bars, and punches of the paper feeding devices and the auxiliary bars Y adapted for operation by the key levers to regulate the feed, to correspond with the punch selected bars operated at the same time. 12th. In combination with the key levers and the supplementary levers, mechanism for operating punch head, and a drum for moving the paper and its operating mechanism, so arranged in relation to each other that the punches will be operated in advance of the paper feed devices. 13th. In combination with the paper drum and its rotating devices, the arm V connected to said rotating devices, the rotary shaft A and devices communicating positive motion in one direction therefrom to said arm, a spring for retracting said arms, and the bars Y having shoulders or stops z at different distances from their free ends, and the key levers for operating said bars. 14th. In combination with the rotating shaft and loosely fitting sleeve carrying the cams, for operating the punch and feed devices, the ratchet on said shaft, and pawl on the sleeve, and the angle lever and mechanism for tripping the same. 15th. The combination with the key levers and the several punch selecting bars, of intermediate mechanism through which said bars are operated by the key levers in alternating or non-alternating order, according to the character of the respective levers. 16th. The combination, with the angle lever a for tripping the pawl c on the sleeve, of the rotating shaft stop lever e for retaining said angle lever in its normal position, and the latch bar G actuated by each of the keys and engaging with the lever pawl e, and operating to trip the latter. 17th. In combination with the key levers and supplementary levers, the oscillating frame R, rod r, arm q, and pawl and ratchet, by means of which the cam Q is rotated to impart a reciprocating motion to the rack bar, and alternate the lifting of the punch selecting bars. 18th. In combination with the paper drum and its ratchet wheel, the arm b and its pawl connected to the levers V, and the auxiliary bars adapted to abut against said arm when elevated, and serve to limit its movement and the movement of the feed devices. 19th. In combination with the punch head and punches, the bar v extending through the slots or recesses in the punches, and adapted to withdraw the punches