

as described. 3rd. The combination, with the supporting frame, of a dumping car consisting of two separate dumping boxes having an oscillatory engagement upon said frame at the edges thereof, and a locking device for holding the boxes in a horizontal plane, substantially as described. 4th. The combination, with the supporting frame, of a dumping car consisting of two separate dumping boxes having an oscillatory engagement upon the edges of the frame, and extending over said edges, and a locking device for holding said boxes in a horizontal plane and permitting them to be dumped in either direction, substantially as described. 5th. The combination, with the supporting frame provided with uprights at its edges, of two dumping boxes having a central oscillatory engagement on said uprights, arc-shaped braces secured to said boxes, and locking devices adapted to engage with said braces for the purpose of holding the boxes in a horizontal plane and to permit the boxes being dumped in either direction, substantially as described. 6th. The combination, with a supporting frame, of a dumping car, consisting of two separate dumping boxes having a central oscillatory engagement upon the frame, the construction being such that both boxes can be dumped inward and outward at the will of the operator, substantially as described.

### No. 36,568. Hay Carrier. (*Monte-foin*.)

James White Provan and John White Provan, 9th May, 1891; 5 years.

*Claim.*—1st. Two beams independently pivoted to the main body of the carrier, each beam being supported by a pair of wheels located one on each side of its pivot, substantially as and for the purpose specified. 2nd. A pair of dogs pivoted at right angles to the bail-holding dogs and designed to drop in between the said bail-holding dogs when the latter are pushed apart by the button of the bail-pulley, substantially as and for the purpose specified. 3rd. A pair of dogs pivoted at right angles to the bail-holding dogs, in combination with a diamond-shaped block located in the centre of an open ended flanged plate, substantially as and for the purpose specified. 4th. A plate having a downwardly projecting flange formed on each side, and having an opening at each end, in combination with a diamond-shaped block connected to and projecting below the bottom surface of the said plate, substantially as and for the purpose specified.

### No. 36,569. Band Cutter for Threshing Machines. (*Tranche-hart pour machines à battre*.)

George N. Brintnell, Canifton, Ontario, Canada, 9th May, 1891; 5 years.

*Claim.*—1st. The combination, with the main frame 1, of the parallel cranked shafts 2, 3, the knives 4, sleeved on said cranks and connecting both shafts, and geared to drive simultaneously, whereby a combined chop and draw motion will be imparted to the knives, as described. 2nd. The combination, with the main frame 1, cranked parallel shafts 2, 3, of a series of pendant fingers 14, pivotally hung to swing combinedly by a bar 13, and connecting with a reciprocating bar 15, and pitman 16, crank shaft 17, and gears 18, reciprocating said bar 15, from one of the knife shafts, whereby said fingers are oscillated to distribute the stalks of grain prior to entering the threshing cylinder. 3rd. The combination, with the main frame 1, carrying parallel cranked shafts 2, 3, connected by knives 4, and a trundle wheel 9, in advance of the knives and having posts 24, connected by a bar 25, provided with a rock bar 26, of a supplementary frame consisting of the sills 20, hinged to one end of frame 1, and posts 22, supporting a rock bar 23, said rock bars connected by studs 27, and springs 28, whereby said springs assist the main frame 1, to rise and relieve the pressure of the sheaves passing between the trundle and the apron to prevent the feed choking, as set forth.

### No. 36,570. Type Writer. (*Clavigraphie*.)

Miers Fisher, Denver, Colorado, U.S.A., 9th May, 1891; 5 years.

*Claim.*—1st. A typewriter, consisting of a plate or card 1, having a row of characters formed thereon and provided with a slot cut through the plate or card at one extremity of the row of characters, in combination with a pen or stylus consisting of a handle and a disk pivoted thereon, the disk being provided with raised characters on its periphery, said characters corresponding with those on plate 1, but arranged on the disk in the reverse order or position, the disk being adapted to rotate on the handle as the pen or stylus is moved across the plate with the periphery of the disk in contact therewith, substantially as and for the purpose set forth. 2nd. In a typewriter a plate having a row of characters formed thereon, a cogged, recessed or toothed rack alongside said row of characters, and an opening in the plate at one extremity of said rack, in combination with a pen or stylus provided with a rotating disk having raised characters on its periphery, said characters corresponding with those on plate 1, but arranged on the disk in the reverse order or position, substantially as and for the purpose set forth. 3rd. In a typewriter, a plate having a row of characters formed thereon, a cogged, recessed or toothed rack alongside said row of characters, a recess being opposite each character, and an opening cut through the plate at one extremity of the rack, in combination with a stylus or pen consisting of a hollow handle terminating at one extremity in a fork, a disk supported in said forked extremity and adapted to rotate therein, said disk being provided with raised characters on its periphery, said characters corresponding with those of the plate 1, but arranged on the disk in the reverse order or position, each raised character forming a projection adapted to enter a recess of the rack, a coiled spring located in the hollow handle, one extremity of said spring being connected with an eccentric or drum secured upon the disk while the other extremity is connected with a button or its equivalent outside the free extremity of the handle, substantially as described. 4th. In a typewriter, a plate having a row of characters formed thereon, a recess opposite each character forming in effect a rack, a slot or opening formed in the plate at one extremity of the

rack and suitable means of moving the plate forward in a direct line, in combination with a pen or stylus consisting of a disk with a pointer marked thereon indicating on the periphery the initial point of rotation, the periphery being provided with raised characters forming projections adapted to engage the recessed rack, said characters corresponding with those on plate 1, but arranged in the reverse order or position, a handle one extremity of which is fashioned for the reception of the disk and within which it rotates, and suitable means of maintaining the disk normally in a uniform position, substantially as and for the purpose set forth. 5th. In a type writer, a plate having characters formed thereon, a rack alongside the characters with a recess opposite each, a slot or opening at one end of the rack, and a roller journaled upon the plate and provided with a toothed spacing cylinder secured to each extremity thereof, said cylinders protruding through suitable openings formed in the plate, in combination with a pen or stylus provided with a rotating disk having raised characters formed on its periphery corresponding with the characters of the plate, but arranged in reverse order or position, and suitable spring mechanism whereby the disk is normally maintained in a uniform position, substantially as and for the purpose set forth. 6th. A type writer, consisting of a plate having a row of characters thereof, an opening or slot at one extremity of said row, a roller journaled upon the plate and provided with a fluted spacing cylinder secured to each extremity thereof, said cylinders protruding through suitable openings formed in the plate, a cap covering said roller and provided with a finger opening as shown, in combination with a pen or stylus provided with a rotating disk having raised characters on its periphery, said characters corresponding with those on the plate but arranged in the reverse order or position, and a pointer indicating on the periphery of the disk the initial point of rotation and suitable means of normally maintaining the disk in a uniform position, substantially as and for the purpose set forth. 7th. A type writer, consisting of a plate 1, having a row of characters thereon, an opening or slot at one extremity of said row, the plate being provided with a padded groove for inking the stylus, said groove extending preferably parallel with the row of characters, in combination with a pen or stylus provided with a rotating disk having raised characters on its periphery, said characters corresponding with those on plate 1, but arranged on the disk in the reverse order or position, substantially as and for the purpose set forth. 8th. A type writer consisting of a plate having a row of characters thereon, an opening or slot at one extremity of said row, in combination with a stylus consisting of a handle and a disk pivoted thereon, the disk being provided with raised characters, said characters corresponding with those on the plate but arranged in the reverse order or position, the disk being adapted to rotate on the handle as the pen is moved across the plate with its periphery in contact therewith, and suitable means of inking the stylus, substantially as and for the purpose set forth. 9th. A type writer, consisting of a plate having a row of characters formed thereon, a slot or opening cut through the plate at one extremity of said row and a recess across the under side of the plate in line with said opening, in combination with a stylus consisting of a rotating disk and a handle, the disk being pivoted on the handle and provided with raised characters on its periphery, said characters corresponding with those on the plate but arranged in reverse order or position, the disk being operated by placing its periphery in contact with the plate and moving the stylus forward, substantially as and for the purpose set forth. 10th. A type writer consisting of a plate having a row of characters formed thereon, a printing slot or opening 9, cut through the plate at one extremity of said row, one or more line spacing slots cut through the plate above slot 9, in combination with a stylus consisting of a handle and a disk or its equivalent having printing characters formed on its periphery, said characters corresponding with those on the plate but arranged in reverse order or position, the stylus being operated by placing the periphery of the disk in contact with the plate and moving the same forward thereon, substantially as and for the purpose set forth. 11th. A type writer consisting of a plate having a row of characters formed thereon, a slot or opening 9, cut through the plate at one extremity of said row, a guide flange 40, extending backward from slot 9, in combination with a stylus or pen provided with a disk or its equivalent having printing characters formed on the periphery, said characters corresponding with those on the plate but arranged in the reverse order or position, substantially as and for the purpose set forth. 12th. A pen or stylus consisting of a handle, a disk pivoted thereon and having its periphery provided with raised characters adapted to print as the disk is rolled over a suitable surface, and means of returning the disk to the same relative position upon the handle after each printing act, substantially as described.

### No. 36,571. Curry Comb. (*Etrille*.)

Heinrich Schulz, Berlin, Prussia, 9th May, 1891; 5 years.

*Claim.*—1st. In a curry comb, the combination of a sector-shaped brush S, the bent flat bar c, provided with a handle H, the spiral comb A, the stud d, being centrally to the spiral comb fastened to one end of the flat bar c, and projecting through the other end of the same, and being provided with a nut e, so as to adjust the projection of the brush from the comb, as for the purpose set forth. 2nd. In a curry comb, the combination of the sector-shaped brush S, the bent flat bar c, the spiral comb A, the stud d, being centrally to the spiral comb fastened to one end of the flat bar c, and projecting through the other end of the same and being provided with a nut e, so as to adjust the projection of the brush from the comb, the disc i, and the brush cleaner z, as for the purpose set forth.

### No. 36,572. Combined Memorandum and Order Rest and Tablets. (*Livret, appui pour livres de commandes et tablettes à notes*.)

John Ross Pruyn, Montreal, Quebec, Canada, 9th May, 1891; 5 years.

*Claim.*—1st. In a memorandum and order rest and tablet, the combination of a frame carrying in it a roll of paper and on it a tablet,