

said section over the stationary cut-off plate by the falling movement of said hopper, substantially as described. 5th. In a grain weighing machine, the combination of a bucket, a scale beam, an oscillating partition dividing the bucket into two compartments, and a dog pivoted to the bucket for holding the partition to close the bottom of one or the other compartment, substantially as described. 6th. In a grain weighing machine, the combination of a bucket, a scale beam, an oscillating partition dividing the bucket into two compartments, a movable feed spout and means connecting the spout with the partition, for moving the spout by the swinging of the partition, substantially as described. 7th. The combination, in a weighing machine, of a bucket, a scale beam, an oscillating partition in the bucket, brackets secured to the end of the latter, and a weighted dog journaled in the brackets for locking the partition, substantially as described. 8th. The combination, in a weighing machine, of a scale beam, a rock shaft therein, a partition on the rock shaft beam, a bucket, the bucket into two compartments, a movable feed spout and means connecting the spout with the rock shaft, substantially as described. 9th. The combination, in a weighing machine, of a scale beam, a bucket, a rock shaft therein, a partition attached to said shaft, a lever connected with the shaft, a bent arm operated by the lever, and a hinged feed spout connected with the bent arm, substantially as described. 10th. The combination of the chute, the sliding gates, the pivoted bell crank-levers, a rising and falling grain bucket having attached vertical rods projecting above its upper end for operating the levers, and means for arresting the descent of the weighted ends of the levers, substantially in the manner and for the purpose described. 11th. The combination, in a weighing machine, of a scale beam, a grain bucket suspended therefrom, a stationary partition arranged centrally with relation to the receiving mouth of the bucket, an oscillating partition pivoted directly beneath the stationary partition and devices carried by the ends of the grain bucket for automatically locking and unlocking the partition at either side of the discharge mouth of the bucket, substantially as described. 12th. The combination, in a weighing machine, of a grain bucket suspended from a scale beam and having receiving and discharging mouths, a partition arranged to oscillate within said bucket to move first from one side to the other of the discharging mouth, and a dog pivoted on the end of the bucket and having at its inner end the oppositely-arranged lugs for locking the partition against one or the other side of the discharge mouth of the bucket, substantially as described.

No. 19,058. Combined Harrow and Seeder. (Herse-Semoir.)

Jay S. Corbin, Gouverneur, N. Y., U.S., and Andrew G. Hill, Prescott, Ont., 4th April, 1884; 5 years.

Claim.—1st. The combination, substantially as set forth, of the harrow pole, frame and disk-gangs, the seeder-sulky, the seed box thereon, and draft devices connecting the seeder sulky with the draft pole of the harrow. 2nd. The combination, substantially as set forth, of the harrow frame, the disk gangs carried thereby, the seeder-sulky and the seed box mounted on the sulky in advance of the disk gangs. 3rd. The combination, substantially as set forth, of an independent separable disk-harrow, the driver's seat mounted thereon, the seeder-sulky which straddles the harrow and is connected therewith, and a seed box carried thereby. 4th. The combination, substantially as set forth, of the harrow, the seeder-sulky, the seed box mounted on the sulky, and detachable or unmovable connections between the harrow and sulky, whereby the seeding devices may be separated from the harrow. 5th. The combination, substantially as set forth, of the harrow, the seeder-sulky, the swiveling draft connection between the seeder sulky and harrow, and means for limiting the lateral play or vibration of the sulky and harrow relatively to each other. 6th. The combination, substantially as set forth, of the seeder-sulky, the harrow frame and the disk gangs carried by the harrow frame, with their gang shafts, in substantially the same vertical plane as the axle of the seeder sulky. 7th. The combination, substantially as set forth, of the harrow frame, the disk-gangs carried thereby, and a lever for adjusting the gangs to vary their angle to the line of draft located at the rear of the machine. 8th. The combination, substantially as set forth, of the seeder sulky, the seed box carried thereby, the harrow frame with which the seeder sulky is connected, the disk gangs arranged in rear of the seed box, and a lever for varying the angle of the gangs relatively to the line of draft, also in rear of the seed box. 9th. The combination, substantially as set forth, of the harrow frame, the disk gangs, the adjusting lever pivoted at or about the rear of the draft pole, the swinging link pivoted on the tongue, the rod connecting the adjusting lever and link, and the rods which connect the link and the disk gangs. 10th. The combination, substantially as set forth, of the harrow frame, the opposing disk gangs carried thereby, arranged on opposite sides of the pole or central draft line, a lever for adjusting the angle of the gangs relatively to the line of draft, located substantially between the adjoining ends of the opposing gangs and the cultivating or harrow tooth, also operated by said lever to cut out the space between the gangs. 11th. The combination, substantially as set forth, of the harrow frame, the disk gangs carried thereby and arranged on opposite sides of the central line, a lever pivoted on the frame, and a harrow or cultivating tooth carried on the end of the lever, so as to be raised or lowered to cut out the space between the gangs. 12th. The combination, substantially as set forth, of the harrow frame, the disk gangs arranged on opposite sides of the central line, the adjusting lever pivoted at the rear of the frame or pole, the swinging link pivoted on the pole in front of the gangs, the rod connecting the adjusting lever and said link, the rods connecting the disk-gangs and said link, and the cultivating or harrow tooth connected with and actuated by said lever. 13th. The combination of the pole, the opposing gangs and the adjustable cultivating or harrow tooth located between the gangs. 14th. The combination, substantially as set forth, of the harrow-frame, the disk gangs carried thereby, scraper-beams carried above the disk-gangs, levers for operating the scraper-beams pivoted on the frame of the harrow in permanent relation to the driver's seat, and swiveling or yielding connections between the scraper-beams and said levers. 15th. The combination, substantially as set forth, of the disk-gang, the scraper beam, the supports on which it is mounted so as to move with the gang, when its angle to the line of draft is changed, a lever for reciprocating the

beam, pivoted on the frame of the harrow in permanent relation to the driver's seat, and a swivel connection between said lever and scraper beam. 16th. The combination, substantially as set forth, of the frame, the disk gang, the slotted scraper beam, the scraper beam support rigidly mounted upon the disk gang, the scraper-beam supporting bracket carried by the hanger, the adjusting lever pivoted upon the frame, and the swivel connection between said lever and the beam. 17th. The combination, substantially as set forth, of the gang of cutting disks, the scraper-beam, a series of scrapers, one for each disk, carried by said beam, and means for independently adjusting each scraper relatively to its disk. 18th. The herein described spacing thimble, having a detachable flange or collar, and as for the purpose specified. 19th. The combination, substantially as set forth, of the spacing thimble, the removable flange or collar and the sectionless journal-box. 20th. The herein-described spacing thimble, having a removable flange or collar formed of harder metal than the body of the thimble, for the purpose specified. 21st. The combination, substantially as set forth, of the spacing thimble, its removable flange or collar, the sectionless journal box and the sand bands, with notch or recess at their lower sides, which fits on the ends of the journal box and over the flanges of the thimble.

No. 19,059. Two-Wheeled Vehicle.

(Voiture à deux Roues.)

William F. Robb (Assignee of Fisher Dogerty and Enos L. Sies) Crawfordville, Ind., U.S., 4th April, 1884; 5 years.

Claim.—1st. The combination of the axle, the thills secured thereto and projecting in rear thereof, a cross-bar connecting the rear end of the thill blocks carrying the body, and plates secured to the under-sides of these blocks and bearing upon the axle at their front ends, and adjustably connected to the cross-bar at their rear ends, substantially as set forth. 2nd. The combination of the axle, the thills secured thereto and projecting in rear thereof, a cross-bar connecting the rear ends of the thills, the plates having their front ends bearing upon the axle and provided with the slotted rear extensions, and the set screws securing these plates to the cross-bar, substantially as set forth. 3rd. The combination of the axle, the thill plates having a bearing on the axle and connected with the thills, and adjustable on said bearings, the body and devices connecting the body with the plates, substantially as set forth. 4th. As an improvement to the body of the combination, with the body, of a seat swung or pivoted to the body of its sides so as to have a free and independent swinging movement on the body from front to rear, substantially as set forth. 5th. The combination, with the sides of a vehicle body, of a seat having longitudinal strips secured upon its under sides and formed with bearings at their ends, and transverse swing rods having upturned ends seated in bearings in the sides of the vehicle body, substantially as set forth.

No. 19,060. Treatment of Leather, &c.

(Traitement du Cuir, &c.)

Thomas Gare, Stockport, Eng., 5th April, 1884; 5 years.

Claim.—The mixture or compound composed of unwrought wood resin, gumthrus, or frankincense, boiled or linseed oil, india-rubber solution and petroleum, benzoline, or bi-sulphite of carbon for treating leather and leather substitutes, for the purposes and in the manner hereinbefore described.

No. 19,061. Cinder Sifter. (Crible à Cendres.)

James Carmichael, Oshawa, Ont., 5th April, 1884; 5 years.

Claim.—1st. As an improved cinder sifter, a box C divided by the partition E having a hole e and hopper-shaped towards the said hole, with wire netting F located as indicated, in combination with mechanism arranged to hold the ash pan H against the partition E, substantially as and for the purpose specified. 2nd. As an improved cinder sifter, the box C pivoted within the chamber A and having one of its sides formed of wire netting F, in combination with the chutes K flaring from the sides of the chamber A, substantially as and for the purpose specified. 3rd. The box C, divided at or about its centre by the partition E and having one of its sides formed by the netting F, in combination with the board L pivoted on the block M and arranged with the wedge O to hold the ash pan H against the partition E, so that its contents shall fall through the hole e into the netting F, substantially as and for the purpose specified.

No. 19,062. Flour Bolt. (Blutoir.)

Joseph E. Fiske, Jamestown, N. Y., U. S., 5th April, 1884; 5 years.

Claim.—1st. The combination, of the bolt frame or reel, the extensions rigidly secured to the arm of said reel and extending outwardly therefrom, the spring hammer, a support to which said hammer is secured, the yoke and the regulating screw, substantially as shown and described, and for the purpose set forth. 2nd. In a flour-bolt, the combination of arms C, C, hammer Y, spring handle D, a support to which said handle is secured, screw E and yoke b, all arranged to operate substantially as and for the purpose set forth.

No. 19,063. Self-Oiling Axle.

(Essieu à Gaiissage Continu.)

Charles W. Carrier, Lewis, Que., 5th April, 1884; 5 years.

Claim.—1st. An axle provided with an oilway made diagonally downwards from the upper and outward end of the axle through to the surface of its underside, and made to receive a lubricating pin, substantially as and for the purposes hereinbefore set forth. 2nd. The axle A, having the oilway E, diagonally downwards and for lubricating pin G, shoulder F and recess D, substantially as and for the purposes hereinbefore set forth. 3rd. The oil reservoir H, when screwed on the axle A, having oilway E, with lubricating pin G, substantially as and for the purposes hereinbefore set forth.