rally through the sieve heads and free to turn independently of the sieve, said shaft being journalled in the housing, and a hood having its sides extending down at the ends of the sieve and rigidly attach-ed to said shaft, and adapted to be drawn over said opening by means of said shaft, substantially as and for the purposes set forth. 2nd. The combination, with a rotary sieve, of substantially cylin-drical shape loosely mounted on a shaft journalled in a suitable housing, and having a feed opening therein, and a section adjacent to said feed opening of less radial length than the main part, of a hood having its sides extending down at the ends of the sieve, and rigidly attached to said shaft, said hood being adapted to travel over said feed-opening and section, substantially as and for the purposes set forth. 3rd. The combination, with a rotary sieve, of substanti-ally cylindrical shape set on a shaft journalled in a suitable housing, and having at one each end wedge-shaped projections with sockets therein, of a cover to said housing having spurs on outside thereof, adapted to project through holes in said housing, and into said sockets when said door is open to lock said sieve in a given po-sition, substantially as and for the purposes set forth. The combination, with a housing having a rotary sieve journalled there-in, of an ash-receptacle cover hinged at one end to said housing and having pan supports, substantially as and for the purposes set forth. 5th. The combination, with a suitable housing having a rotary sieve journalled therein, of an ash-receptacle cover hinged at one end to said bousing and having pan supports, substantially as and for the purposes set forth. 5th. The combination, with a suitable housing having a rotary sieve journalled therein, of an ash-receptacle cover hinged at one end to said housing and having swinging pan-supports, substantially as and for the purposes set forth. for the purposes set forth.

### No. 36,012. Washer and Concentrator for Ores. (Concentrateur de minerai.)

Carl Lührig, Dresden, Saxony, German Empire, 17th February, 1891; 5 years.

Claim.-Ist. In a percussion table, the herein described means of guiding the travelling band by strips of wood attached to its outer surface, and guided in a channel iron above. 2nd. In a percussion table, attaching the feeding boxes, jet pipes, and distributing table edged with fabric to the movable frame, substantially as described. 3rd. The combination of three or more percussion tables, arranged with communicating channels so as to constitute a compound ma-chine for successive treatment of the material without requiring manipulation thereof, substantially as described.

#### No. 36,013. Oil for Painting. (Huile d peinture.)

Adam Alexandre Wilson, Montreal. Quebec, Canada, 17th February, 1 91; 5 years.

Résumé.-Un nouvel article de manufacture, une huile à peinture Composée d'un mélange d'huile animale, d'huile végétale de borax et de "Japan dryer," dans les proportions et de la manière ci-dessus décrites et pour les fins sus-mentionées.

## No. 36,014. Manufacture of Axle Boxes.

(Fubrication des boîtes à graisse.)

(Fubrication des boîtes à graisse.) John Donnelly, William McLaren and Ambrose Trask, all of Lon-don, Eng., 19th February, 1891; 15 years. Claim.—1st. The herein described process of manufacturing axle box scells from a flat plate without weld or join, which consists in submitting the plate to a series of cupping or drawing operations in a series of dies of progressively-decreasing size, whereby the plate is brought by progressive stages first to a box like form with bulged sides at certain points, and then the bulges are formed into corruga-tions or ribs and intermediate external grooves for the horn plates, and if required internal grooves for dust guard, without drawing metal from any other part of the box or sensibly diminishing the thickness of the metal in the operation of forming said corrugations substantially as described. 2nd. The herein described process of manufacturing axle box shells, which consists in submitting a flat plate to progressive series of cupping and drawing operations in dies, whereby the box like shell is formed with bulged sides which are alterwards formed into corrugations and grooves, as described, and stamping or embossing the top or closed end of the box shell be-tween dies, to form a set for the spring and bosses for the lid hinge. substantially as specified.

# No. 36,015. Process of Making Artificial Musk. (Procéde de fabrication de musc artificiel.)

Albert Baur, Biberach, Germany, 19th February, 1891; 5 years.

Claim.—The process of making artificial musk which consists in heating toluoil with butan chloride, bromide or iodide diluting the product, distilling it with steam, treating the vapors between 170°, 200° C, with fuming nitric and sulphuric acid, and crystallizing the result with summonia or carbonate of ammonium, substantially as specified specified.

### No. 36,016. Delivery Waggon. (Voiture de distribution.)

Christain See, St. Paul, Minnesota, U.S. A., 19th February, 1891; 5 years.

years. Claim. -1st. In a waggon, the combination of a platform having a recess at the rear end, a step suspended below said recess, and a seat mounted upon a standard upon said step, substantially as described. 2nd. In a waggon, the combination, with the platform having a re-cess at its rear end, a step suspended beneath said recess, a soat mounted upon said step, and a brake operating lever extending downward adjacent to said step, substantially as described. 3rd. In

a waggon, the combination of the platform having a recess at its rear and a driver's scaling the rear of sail recess, and a rein support ar-purposes set forth. Ath. In a waggon, the combination of the plat-form having an open work guard and a recess, at list rear end, a step within or back of said recess, a triver's seat support arranged centrally up on said platform, and a transverse shelf arranged underneath said platform immediately in front of the hind wheels, substantially as and for the purposes set forth. 5th. In a waggon of the class de-sorted, the combination, with its platform, of an open work guard on the same, a semi-circular recess, and a transverse recentule, seried, the combination, with its platform, of an open work guard on the same, a semi-circular recess, and a transverse recentule, seried, the combination, with its platform in front of the bind wheels, and the same, a semi-circular recess, and a transverse recentule within or one standard upon said step, a brake operating the omination, with the relax of the waggon of the class described, the cubination, with the relax of the waggon of the class described, the through the same, connecting the bridle bit and the bitching weight, alifting strap connected to said weight, and means operated strap into engagement with the adjacent waggon wheel, whereby strap into engagement with the birdle bit, a lifting strap and the driver at the rear of the waggon of the same to lift strap into engagement with be adjacent waggon, wheels of the waggon start wheel in its forward movement serves to lift said weight, sub-trap driver shows the devices, substantially as and for the purposes set forth. 8th In a waggon of the waggon, devices up the driver at the rear of the waggon of the waggon, devices the strap into engagement with said devices, substantially as and for the purposes set forth. 8th In a waggon of the wagson, devices the strap into engage said lifting strap, and to relax described, the weight, and means operated by the driver for bringing said str a waggon, the combination of the platform having a recess at its rear

# No. 36,017. Machine for Ditching.

(Machine à fassoyer.)

Walter Carter and David Mackenzie, both of St. Thomas, and Wil-liam Albert Ferguson, of Dehli, all in Ontario, Canada, 19th February, 1891; 5 years.

In alter varier and Divid Mackenzie, both of St. Thomas, and Willing Albert Ferguson, of Dehli, all in Ontario, Canada, 19th February, 1891: 5 years.
Claim.-1st. The combination, with the truck wheels and elevator wheel, of a bowed axie uniting the truck wheels and a frame vertically adjustable in the bow section in which the elevator wheel is journalled, substantially as described. 2nd. The combination of meeted by braces or rools with the draft, an elevator wheel journalled is the frame and the latter pivoted adjacent to the point of application of the draft, and a bale adapted to travel vertically within the axie bow to which the rear of said frame is pivoted, substantially as described. 3rd. The combination, with an elevating wheel, of elevator blades e, pivots on said blades, spring arms connected to said pivots, and a trip adapted to raise sail blades, whereby the pivots are shifted and blades are held in their mised position by a spring, said spring adapted at holds. The combination, with the elevator wheel, of blades are held in their position by a spring, said spring adapted also hold the blade in its discharging position, substantially as described. 5th. The combination, with the elevator wheel, of pivotel blades on its pringhery, a strip adapted to raise calc blade to discharging its adapted to discharge its load of earth, and means for acting lirectly on the edges of said blades pivoted upon arms, a tripping lug E', a retracting wheel, of blades pivoted the shader dupon arms as the adapted to hold the blades both in normal and in discharging position, substantially as described. St. The combination, with the plow solutantially as described. St. The combination, with the plow point and ranck bar, and means for engaging the team thereto, substantially as described. St. The combination, with the plow point and ranck bar, and means for engaging the team thereto, substantially as described. St. The combination, with the plow point and ranck bar, and means for engaging the team thereto, substant

## No. 36,018. Wad for Guns. (Bourre de fusil.)

John Walker Scandland, of Selma, and Bolivar Cooke Converse, Springfield, all in Ohio, U.S.A., 19th February, 1891; 5 years.

Claim.-1st. In wads for shot-guns, two wads between the powder and shot, such wads being one or both formed with the contacting