

Diego Gonzalez

1) Family number: 14982726 (US6199511B)

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Title: Rotary livestock feeder with feed rate gauge

Abstract: A feeder for dispensing feed to livestock which includes a trough having a surface adapted to receive the feed thereon, and a hopper positioned above the trough surface. The hopper has a bottom with an aperture therethrough and a side wall. A feed wheel is rotatably mounted on the trough and includes a radially extending spoke engageable by livestock. A deflector cone having an upwardly tapering cross-sectional configuration is positioned in the hopper and includes a lower edge positioned above the hopper bottom and terminating inwardly of the hopper side wall and outwardly of the hopper bottom aperture. A sweep member is positioned below the deflector cone lower edge and adapted for sweeping feed in the hopper to the aperture. An adjustment mechanism is provided for suspending the deflector cone above the hopper bottom and adjusting a spacing between the lower edge of the deflector cone and the hopper bottom. The adjustment mechanism includes a rigid connector extending between an adjustment bolt and the deflector cone, and a feed rate gauge secured to the adjustment bolt to provide a quick and accurate adjustment of the flow rate of feed through the feeder.

Classifications:

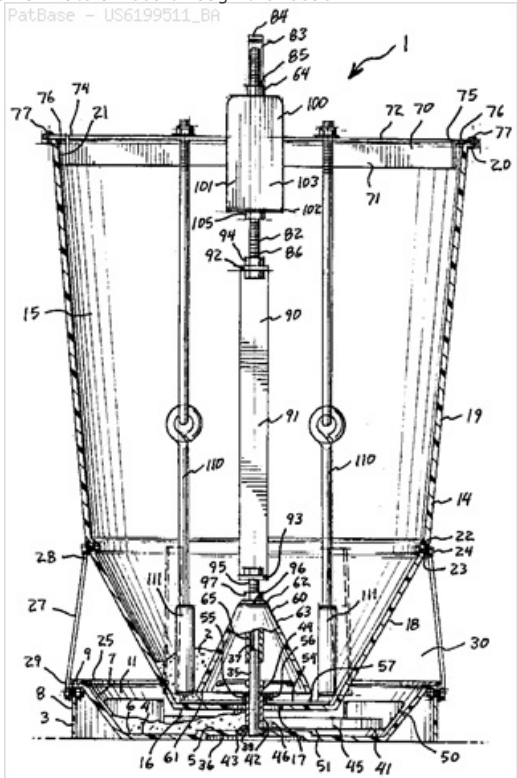
International (IPC 8-9): A01K5/00 A01K5/02 (Advanced/Invention);
A01K5/00 (Core/Invention)

International (IPC 1-7): A01K5/00

CPC: A01K5/0241

European: A01K5/02D2

US: 119/53 119/53.5 119/535



Family:

Publication number	Publication date	Application number	Application date
CA2313413 AA	20010108	CA20002313413	20000705
CA2313413 C	20060321	CA20002313413	20000705
US6199511 BA	20010313	US19990350252	19990708

Priority:

US19990350252 19990708 CA20002313413 20000705 CA20002313413 20000705

Probable Assignee: OSBORNE IND INC

Assignee(s): (std): OSBORNE IND INC

Assignee(s): OSBORNE INDUSTRIES INC ; THIBAUT RONALD M ; OSBORNE IND

Inventor(s): (std): THIBAUT RONALD M

Agent(s): OGILVY RENAULT LLP SENCRL SRL

2) Family number: 31798096 (US2005073444A)

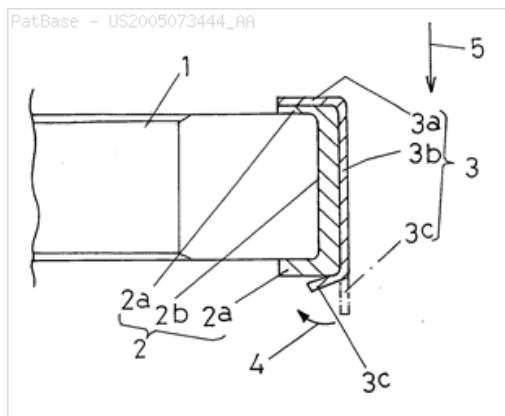
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Title: CYLINDRICAL COVER-ATTACHED ENCODER APPARATUS

Abstract: A cylindrical cover-attached encoder apparatus, including a magnetic metal-based body having a cylindrical shape, a magnetic rubber-based encoder having a cylindrical shape and formed around the outer peripheral surface of said magnetic metal-based cylindrical body, and a nonmagnetic material-based cover having a cylindrical shape and adapted to be mounted on said magnetic rubber-based encoder for covering the outer peripheral surface of the cylindrical portion of said magnetic rubber-based encoder.

Classifications:

International (ipc 8-9): A01K13/00 A01K29/00 A01K5/01
A01K5/015 A01M7/00 F16C41/00 G01B7/00 G01B7/30 G01D5/00
G01D5/14 G01D5/245 G01P3/48 G01P3/487 H03M1/22 H03M7/00
H03M99/00 (Advanced/Invention);
G01B7/00 H03M1/22 (Advanced/Non-invention);
A01K13/00 A01K29/00 A01K5/00 A01M7/00 F16C41/00 G01B7/00
G01B7/30 G01D5/00 G01D5/12 G01P3/42 H03M1/22 H03M7/00
H03M99/00 (Core/Invention);
G01B7/00 H03M1/22 (Core/Non-invention)
International (ipc 1-7): F16C41/00 G01B7/30 G01D5/245
G01P3/487 H03M1/22
CPC: A01K5/01 A01K5/0114 A01K13/003 G01D5/145 G01D5/00
G01D5/14 G01P3/443 G01P3/487 F16C41/007
European: A01K13/00D A01K5/01 A01K5/01B G01D5/00 G01D5/14
H03M1/24C
US: 119/51.03 119/51.030S 119/61.31 119/61.310P 119/652
119/657 119/657S 119/660 119/72 324/207.25 324/207.250P
324/207.250S 341/15 341/15P 341/50 341/50P



Family:

Publication number	Publication date	Application number	Application date
CA2590023 AA	20071124	CA20072590023	20070517
DE102004049000 A1	20050623	DE200410049000	20041006
DE102004049000 B4	20150723	DE200410049000	20041006
JP2005114507 A2	20050428	JP20030348172	20031007
JP4543306 B2	20100915	JP20030348172	20031007
US2005073444 AA	20050407	US20040959084	20041007
US2006214823 AA	20060928	US20060439992	20060525
US2007115144 AA	20070524	US20070649803	20070105
US2007272164 AA	20071129	US20060439922	20060524
US2008048891 AA	20080228	US20070905835	20071004
US2008127903 AA	20080605	US20080019540	20080124
US2009009161 AA	20090108	US20080230919	20080908
US2009267804 AA	20091029	US20090500111	20090709
US2011006923 AA	20110113	US20100885880	20100920
US7950351 BB	20110531	US20080019540	20080124
US8049645 BB	20111101	US20100885880	20100920

Priority:

JP20030348172	20031007	US20040959084	20041007	US20050683941P	20050524
US20060439922	20060524	US20060439992	20060524	US20060439992	20060525
US20070649803	20070105	CA20072590023	20070517	US20070905835	20071004
US20080019540	20080124	US20080230919	20080908	US20090500111	20090709
US20100885880	20100920				

Probable Assignee: UCHIYAMA MFG CORP

Assignee(s): (std): MANN FRED W ; SHIOTSUKA AI ; UCHIYAMA MFG ; YAMAGUCHI YOSHIHIKO

Assignee(s): UCHIYAMA MFG CORP ; UCHIYAMA MANUFACTURING CORP ; UCHIYAMA MANUFACTURING CORP
OKAYAMA

Inventor(s): (std): MANN FRED W ; SHIOTSUKA AI ; SHIOZUKA AI ; YAMAGUCHI YOSHIHIKO

Agent(s): MOFFAT AND CO; WENDEROTH LIND AND PONACK LLP; MARK BROWN; LAW OFFICE OF MARK BROWN
LLC; MARK E

3) Family number: 22741909 (US3295500A)

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Title: AUTOMATIC FEED WEIGHING AND LIQUID DISTRIBUTING APPARATUS FOR LIVESTOCK

Abstract: 1,008,955. Weighing apparatus. FAIRFIELD ENGINEERING and MANUFACTURING CO. March 31, 1964 [April 2, 1963; March 25, 1964], No. 13230/64. Heading G1W. [Also in Division A1] Apparatus for supplying feed to a number of livestock feeding stations comprises a conveyor 12 supplied with feed from a storage bin and having openings in its base through which the feed falls into weighing units 16 each comprising a tube 42 supported by links 43 from a balancing mechanism 50. The lower end of the tube is closed by hinged doors 44 coupled to a trip linkage associated with the balancing mechanism. A door 46 pivotally mounted on the conveyor frame is connected to the tube 42 and pivots to close the opening when the tube 42 moves downwardly under a predetermined weight of food. The amount of food is varied by moving a weight 90 along calibrated balance arm 51, an auxiliary weight 92 and adjusting screw 93 also being provided. Means are provided for returning the balancing means to their original position after the food is discharged from the tubes. The trip linkage also controls the flow of water from tank 21 in to the mixing cone 22.

Classifications:

International (ipc 8-9): A01K5/02 G01G13/00
G01G19/00 (Advanced/Invention);

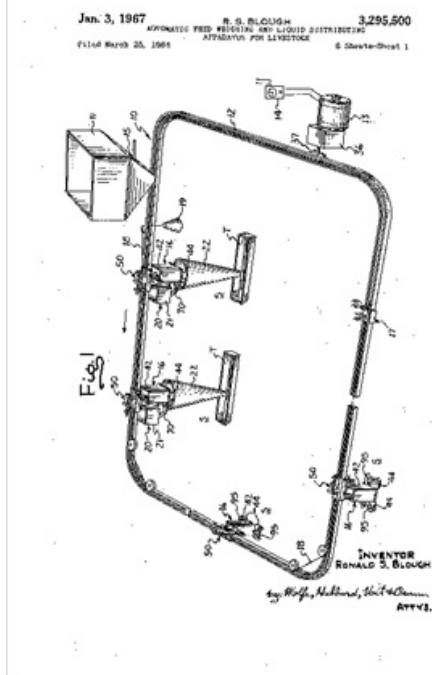
A01K5/00 G01G13/00 G01G19/00 (Core/Invention)

International (ipc 1-7): A01K5/00 A01K5/02 G01G13/00 G01G13/02
G01G19/00

CPC: A01K5/0216 A01K5/0283 G01G13/00 G01G19/00

European: A01K5/02C A01K5/02G1 G01G13/00 G01G19/00

US: 119/51.11 119/51.5 119/56.2 177/103 177/112 177/114 177/120
177/71

**Family:**

Publication number	Publication date	Application number	Application date
DE1482329 A1	19690403	DE19641482329	19640402
DE1482329 C3	19730208	DE1964F042490	19640402
DE1607152 A1	19700709	DE19641607152	19640402
DK114101 B	19690527	DK19640001612	19640401
ES298239 A1	19640816	ES19640298239	19640402
GB1008955 A	19651103	GB19640013230	19640331
NL6403487 A	19641005	NL19640003487	19640402
US3185230 A	19650525	US19630270068	19630402
US3295500 A	19670103	US19640354736	19640325

Priority:

US19630270068 19630402 US19640354736 19640325

Probable Assignee: FAIRFIELD ENG MFG

Assignee(s): (std): FAIRFIELD ENG AND MFG CO ; FAIRFIELD ENG MFG ; FAIRFIELD ENGINEERING AND MANUFA ; FAIRFIELD ENGINEERING AND MFG CO ; FAIRFIELD ENGINEERING AND MFG CO FAIRFI

Assignee(s): FAIRFIELD ENGINEERING AND MFG CO FAIRFIELD IA V ST A ; FAIRFIELD ENGINEERING AND MFG CO A ; FAIRFIELD ENGINEERING AND MFG CO A OF STATE OF IOWA CORP

Inventor(s): (std): BLOUGH R ; BLOUGH RONALD S ; S BLOUGH RONALD

Inventor(s): RONALD S BLOUGH

4) Family number: 2338322 (US4353329A)

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Title: ROTARY SELF-FEEDER

Abstract: A self feeder for livestock is provided which comprises a base member having a surface for receiving feed thereon and a hopper positioned thereabove. The hopper is adapted for containing feed therein and has a bottom with an aperture for allowing feed to flow therethrough and into said base member receptacle. A plurality of hopper support members are each connected respectively to the base member and the hopper and are also adapted for separating feeding animals. A feed wheel rotatably mounted in the receptacle includes an upright member rotatably mounted in the receptacle. The upright member extends through the hopper bottom aperture with upper and lower portions respectively above and below the level of the hopper bottom. An agitating rod extends from the upright member upper portion for agitating feed within the hopper as the feed wheel is rotated. The feed wheel lower portion includes a spoke extending from the upright member which is movable by an animal to rotate the feed wheel. The spoke is also adapted for engaging a quantity of feed in the receptacle whereby rotation of the feed wheel is resisted.

Classifications:

International (IPC 8-9): A01K5/00 A01K5/02 (Advanced/Invention); A01K5/00 (Core/Invention)

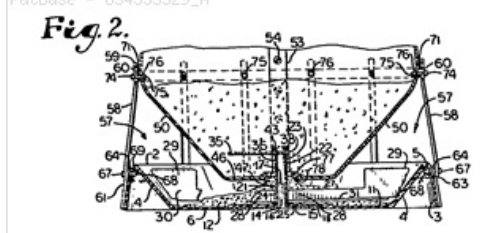
International (IPC 1-7): A01K5/00 A01K5/02

CPC: Y10S119/902 A01K5/0241

European: A01K5/02D2

US: 119/52.1 119/52A 119/53 119/53.5 119/54 119/902

PatBase - US4353329_A

**Family:**

Publication number	Publication date	Application number	Application date
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AU198310379 A1	19830728	AU19830010379	19830114
AU557276 B2	19861218	AU19830010379	19830114
CA1165193 A1	19840410	CA19810381897	19810716
EP0044465 A2	19820127	EP19810105307	19810708
EP0044465 A3	19820922	EP19810105307	19810708
JP57039724 A2	19820305	JP19810110113	19810716
US4353329 A	19821012	US19800169797	19800717
US4462338 A	19840731	US19820339862	19820118

Priority:

US19800169797 19800717 CA19810381897 19810716 US19820339862 19820118

Probable Assignee: OSBORNE IND INC

Assignee(s): (std): OSBORNE IND INC ; OZUBOON IND INC

Assignee(s): THIBAUT RONALD M ; OSBORNE INDUSTRIES INC ; OSBORNE IND

Inventor(s): (std): RONARUDO EMU CHIBOORUTO ; THIBAUT RONALD M

Inventor(s): RONALD M THIBAUT

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FETHERSTONHAUGH AND CO

Designated states: AT BE CH DE FR GB IT LI LU NL SE

5) Family number: 20080289 (GB803921A)

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Title: Improvements in or relating to feeding appliances for livestock

Abstract: 803,921. Feeding appliances for animals. ELT, L. G., and ELT, J. H. March 20, 1957 [May 3, 1956], No. 13740/56. Class 5(2). A feeding appliance for livestock, such as poultry, comprises a vertical tube 1 containing feeding material which falls into a trough 2 through a throat 10 formed between the lower edge of the tube and an inverted cone 8, the tube which is preferably formed in two parts, comprising an upper imperforate portion and a lower portion formed as a tubular wire mesh screen 12 reinforced at its upper and lower ends by metal bands 13, 14. If desired, the screen may be formed of perforated sheet metal or may be of grid construction. The tube is supported in relation to the trough by three equally spaced struts 3 which are secured to the trough and have slots 5 in their upper ends through which screws 6, projecting through holes in the sides of the tube, are secured by nuts 7. By adjusting the position of the screws the size of the throat 10 may be varied. The top of the tube may be closed by a lid and a cover or canopy may be secured to the exterior of the tube at a position above the screen and so arranged as to permit freedom of access by livestock to the trough whilst directing rain away from the trough.

Classifications:

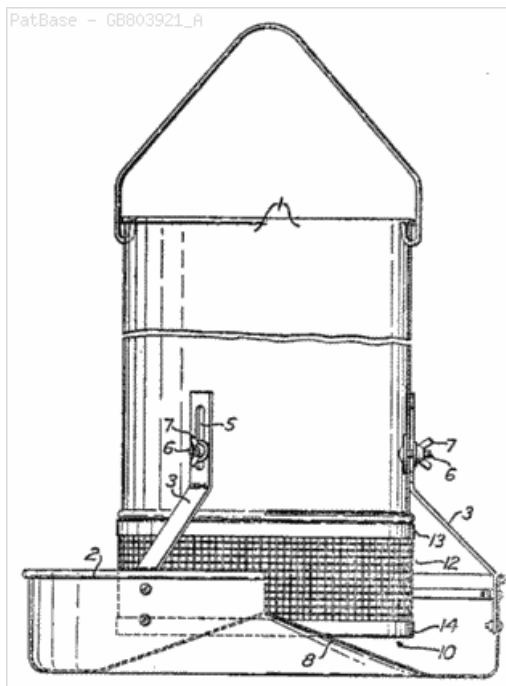
International (IPC 8-9): A01K5/02 (Advanced/Invention);

A01K5/00 (Core/Invention)

International (IPC 1-7): A01K5/00

CPC: A01K5/0225

European: A01K5/02D



Family:

Publication number	Publication date	Application number	Application date
GB803921 A	19581105	GB19560013740	19560503

Priority:

GB19560013740 19560503

Probable Assignee: JOHN HENRY ELT

Assignee(s): (std): JOHN HENRY ELT ; LEONARD GEORGE ELT

6) Family number: 6526273 (SU933068T)

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Title: MACHINE FOR WASHING ROOT CROPS

Abstract: Source: SU933068T **Machine translation:** Invention relates to food processing equipment I, and in particular to machines for washing and separating inor; impurities from the tuberous roots and can be used in agriculture Hoo ystve for washing root crops on livestock farms. Known for washing machine korneklub barrenness comprising bath with raspopozhe

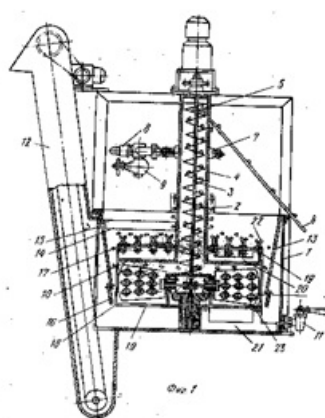
nym it encased vertical auger, drive disc and the washing apparatus for removing impurities TI 3 disadvantages are its low kakachestvo washing and incomplete separation of impurities. The purpose of the invention - povshlenie quality wa sink and a more complete separation of impurities. For this mashitsa moykk for root crops, comprising a bath arranged therein encased vertical auger drive disk and the washing ynm | yuystvov for removing impurities is provided with two additional. governmental discs mounted successively under the main one of which is fixedly mounted on the auger housing, and the other on its shaft, and the casing for disc formed n a flange mounted on the tub truncated cone provided with a scraper for light impurities, and having an opening in the upper portion for their removal, while the lower edge of the cone attached elal. partially consisting of otdelygih plates and located between the additional rotor disk with blades, with the possibility of planetary fortified rotation oonovnog wherein the upper side and both sides of the disc each vane being provided with elastic elements and the drive wheels are provided with slots for the passage of impurities and heavy skrbki for their removal. In addition, the rotor blades have a hyperbolic shape and scrapers vtoleny as spirals ekolentrichno located otositolio shnekp ox, and the dimensions of the main grooves washing prevplayut disk sizes paoov extra drive. Ma Fig. 1 shows mashtla for washing root crops, general view; Fig. 2 - same, top view; FIG. 3 rotor in the form of two projections x. Machine for washing tuberous roots bath contains 1 arranged therein a vertical screw 2 ukrepleitym shaft 3 in the housing 4 which has upper Chisti discharge hatch 5 with a fixed beneath the tray 6 and 7 with a collector inclined nozzles oriented pp. rinsing of washed tubers and provided elektromagnit nym valve 8 and valve 9, to the bottom of the housing 4 is attached with the stationary disc 10. By tub 1 is attached a drain valve 11 and transportation device 12 is connected remove impurities. On the flange bath casing 1 is fixed, made as a truncated cone 13 fitted with a scraper 14 to remove light impurities and having a slit in the top of the hole 15 to remove these impurities disposed proto vehicle devices 12, the scraper 14 is in the form of a spiral and is mounted eccentrically with respect - sithelno axis vertical screw holes 15 against 2. casya At the bottom of the cone 13 has an elastic ring 16, made of individual plates. In the cone 13 are mounted between an upper twin primary drive 1-7 n Lower dopol11 And relatively Washer disc 18 provided with slots 19, and the dimensions of the grooves of the upper primary drive is larger than the grooves 17 of the lower auxiliary drive 18. Both washers are equipped with disc scrapers 20, 21 removal heavy impurities, the washing with the upper disc 17 is provided with a one-way elastic members 22 provided on its surface with a slope from the center towards the periphery, and the lower disc 18 fixed to the shaft 3 of the screw 2 vertically. between 10 additional fixed disk and a lower disk 18, the washing rascholzhe rotor 23 mounted to the possibility of rotation around the vertical shaft 3 tion of the screw 2 and containing 24 blades, ustanovlonn1)- 1e with the possibility of rotation about a horizontal axis, with 24 hav e lonasti hyperbolic and bias and are provided on both sides uprugikgi elomsn glmi 25. Maajuaa ra mod otaog follows (liom. tiaHHy 0 84 1 filled with water to a level of the openings 15 in the cone 13. G switchable simultaneously with the drive machine solenoid valve 8 for feeding water into the reservoir 7, the transport device 12 to remove the light and heavy impurities, and tuberous roots feed conveyor in maiginu. Drive to rotate a vertical screw shaft 3 2 mounted on the lower shaft 18, an additional drive Washer are paired with him} 1ny Washer upper core 17 and the rotor disk 23. Thus 23.vypoln rotor blades 24 are rotatable washing drum functions defined therein schnekami provided with elastic elements 25. ol maintain a constant water level in the tub 1, and set the flow rate of water flow valve 9 is carried out to drain valve 11. (handed conveyor Root crops arrive at the main upper disc 17 and the wash are washed by the elastic members 22. by centrifugal tubers are discarded force ksiusa the walls 13 and onto the blades 24 of the rotor 23, which are washed bilateral elastic elements 25.By slope blades 24 is generated centripetal acceleration to the rotational movement of tubers vertical auger 2, in which they move upward and eventually are washed and rinsed with clean water from the collector nozzles 7, then through the discharge hatch in the casing 5 4 6 fall on the tray and removed iz.mashiny. PEGKI float and impurities are removed from the water surface 14 through the scraper 15, the slit opening in the cone 13 and the transport unit 12 are output from the machine. The heavy impurity through the slit grooves 19 of the upper disk 17 osnovnogV washing fall on a fixed additional disk 10 where scraper 20 are reset to the walls of the cone 13 and flows through the gap between the guaranteed elastic ring 16 and lower additional disk 18 to the washing tub bottom 1. Thus more large heavy impurities deflected plate elastic ring 16, mepkie remaining impurities after further washing vanes of the rotor is fed through the slit grooves 19 n (gzhnsp-Moeffloro of additional disk on the bottom 1.8 Vgenny 1. The heavy gtrimosi RRF synayuts up from the bottom 1 scraper 21 in trans-lyue device 12 and retracted together with light impurities. Being offered construction machines provides high quality tubers washing with complete separation of light and heavy impurities. Having rotor blades hyperbolic shape, provided with bilateral elastic elements at the encoding function of washing drums rotatable both around its horizontal axis and vertical axis of the screw, intensifying the process provides an effective cleaning and division of the impurities. being offered the scraper and their location provides complete removal of impurities from the machine, a single transport carried emoe tion devices. claims 25 1. washing machine for root crops, comprising a bath arranged therein encased vertical screw, and driving the washing jo disk device for removing impurities, characterized in that in order to increase the washing quality and better separation of the impurities, it provided two additional disks ustanoplonnymi consistently below the main one of which is fixedly mounted on the housing of the screw, the other - on th SPLD, as well as housing for drives configured as a fixed on fpantso ianny truncated cone with 1abzhonnogo skre5kom for light impurities and having at the top of the hole for their removal, while the lower edge of the cone attached elastic ring consisting of from individual plates and disks located between the additional rotor blades reinforced with the possibility of planetary rotation, and Dairy pipe side oonovnog drive and both sides of each blades are equipped with elastic elements, and privodnse wheels have grooves for the passage of heavy impurities and scrapers for their removal. 2.Mashina according to claim 1 for m and n and w u h and that the rotor blades have a hyperbolic shape, and the scrapers are in the form of spirals, is eccentrically located with respect to the screw shaft. 3.Mashina according to claim 1, characterized in that the dimensions of the primary grooves washing prevoiyut disk drive sizes additional slots. Sources of information received into account in the examination 1. USSR Author's Certificate number 414997, cl. A 23 N 12/02, 1971.

Classifications:

International (IPC 8-9): A23N12/02 (Advanced/Invention); A23N12/00 (Core/Invention)

International (IPC 1-7): A23N12/02

PatBase - SU933068_A1



Family:

Publication number	Publication date	Application number	Application date
SU933068 A1	19820607	SU19802994962	19801017
SU933068 T	19820607	SU19802994962	19801017

Priority:

SU19802994962 19801017

Probable Assignee: PROIZV OB PROIZV PRODUKTOV IZ**Assignee(s):** (std): PROIZV OB PROIZV PRODUKTOV IZ**Assignee(s):** N PROIZV OB PO PROIZV PRODUKTOV IZ KARTOFELYA**Inventor(s):** (std): SVETILNIKOV VLADIMIR K**Inventor(s):** SVETILNIKOV VLADIMIR K SU**7) Family number: 1340499 (US4185587A)**

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Title: Hog feeder

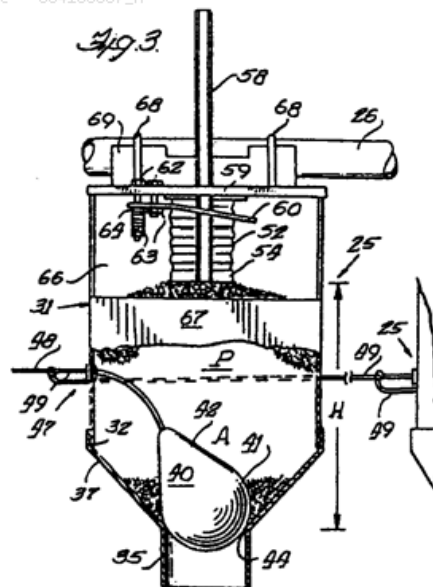
Abstract: Feeder apparatus is provided for delivering a pre-determined amount of feed to hogs and like livestock. The apparatus includes a feed transporting and dispensing conveyor with which are associated a plurality of feeder units; each unit receives and temporarily stores the feed. Each unit includes a feed receiver body. A boot extends from the body and defines a discharge opening. A pear-shaped stopper valve carried in the boot fits into and onto the discharge opening to obstruct the flow. A stopper valve pull system acts to draw the stopper valve away from the discharge opening, thereby permitting feed flow; if desired, this pull system can be connected to a timer so as to discharge the feed at a pre-selected moment. The stopper valve includes a semi-spheroidal element adapted to fit into and onto the discharge opening and a conical element adapted to be drawn through the feed pile so as to discourage feed bridging and hang-up within the feeder unit body. A discharge tube extending into the feeder unit body includes an extensible and retractable bellows member for varying the height of the feed pile to be collected within the feeder unit.

Classifications:**International (IPC 8-9):** A01K5/02 (Advanced/Invention);

A01K5/00 (Core/Invention)

International (IPC 1-7): A01K5/00 A01K5/01 A01K5/02 B65G65/34 B65G65/62**CPC:** A01K5/0275**European:** A01K5/02G**US:** 119/51.11 119/51.110 119/56.1 222/563

PatBase - US4185587_A

**Family:**

Publication number	Publication date	Application number	Application date
AU197945593 A1	19791018	AU19790045593	19790329
AU520830 B2	19820304	AU19790045593	19790329
CA1098777 A1	19810407	CA19790323889	19790321
DE2963055 D1	19820729	DE19792963055	19790404
DK128179 A	19791007	DK19790001281	19790329
EP0004777 A1	19791017	EP19790300556	19790404
EP0004777 B1	19820609	EP19790300556	19790404
ES479277 A1	19791201	ES19790479277	19790404
GR66505 B	19810324	GR19790158711	19790328
JP1012453 B4	19890301	JP19790041170	19790406
JP1531782 C3	19891124	JP19790041170	19790406
JP54135167 A2	19791020	JP19790041170	19790406
PT69440 A	19790501	PT19790069440	19790405
US4185587 A	19800129	US19780893883	19780406
YU74279 A	19820831	YU19790000742	19790329

Priority:

US19780893883 19780406

CA19790323889 19790321

Probable Assignee: CTB INC**Assignee(s):** (std): CHORE TIME ; CHORE TIME EQUIPMENT ; SHORE TIME EQUIPMENT INC**Assignee(s):** CHORE TIME EQUIPMENT INC ; CTB INC ; INC ; KALLIN INGMAR ; SOCIETY NATIONAL BANK**Inventor(s):** (std): KALLIN I ; KALLIN INGMAR ; INGUMAA KARIIN**Inventor(s):** I KALLIN ; INGMAR KALLIN**Agent(s):** CALLINAN AND ASSOCIATES; SMART AND BIGGAR

8) Family number: 744618 (GB1292185A)

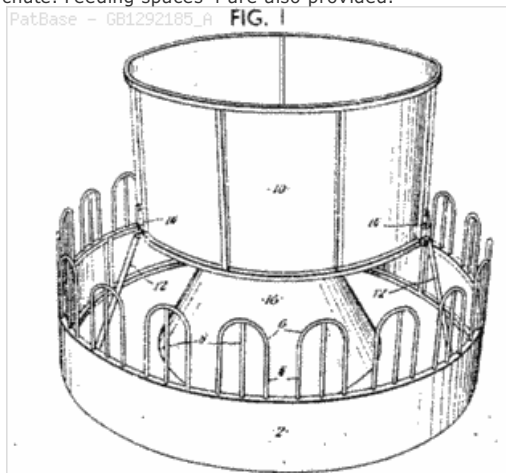
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Title: A FEEDING APPLIANCE FOR LIVESTOCK

Abstract: 1292185 Livestock feeding appliance C S J SPARKES 19 April 1971 [6 March 1970] 10949/70 Heading AIM A feeding appliance for livestock comprises a wall or fencing 2, a cone 16 which extends into a chute 10 the height of which may be adjusted by means of telescopically mounted legs 12. In a modification the chute 10 may be supported from the bottom of the wall 2 by bars bolted at their upper end to eyes on the chute. Feeding spaces 4 are also provided.

Classifications:**International (IPC 8-9):** A01K5/02 (Advanced/Invention);

A01K5/00 (Core/Invention)

International (IPC 1-7): A01K5/00**CPC:** A01K5/0225**European:** A01K5/02D**Family:**

Publication number	Publication date	Application number	Application date
GB1292185 A	19721011	GB19700010949	19700306

Priority:

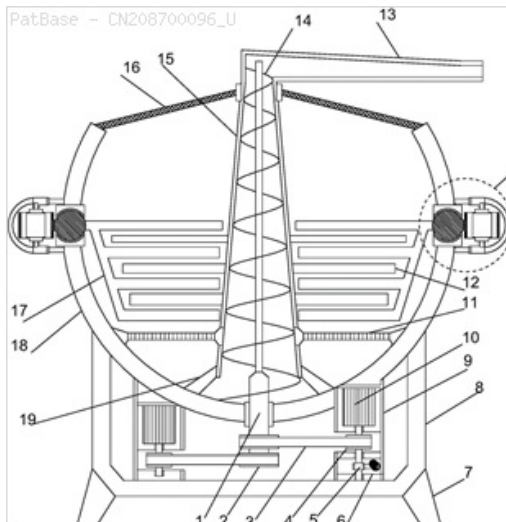
GB19700010949 19700306

Probable Assignee: CLIFFORD SYLVANUS JOHN SPARKES**Assignee(s):** (std): CLIFFORD SYLVANUS JOHN SPARKES**9) Family number: 73854100** (CN208700096U)

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Title: A livestock feed stir feeding device (Machine translation)

Abstract: Source: CN208700096U **Machine translation:** The utility model discloses a livestock feed stirring feeding device, including spherical, the spherical mounting job work mounting cylinder barrel, the mounting cylinder vertically disposed downwardly with a support, the support mounting cylinder is provided with a job drive structure, spherical work mounting sleeve being provided with a vertical intermediate position cone feed cylinder, the feed cylinder the upper end of the cone with a spherical work mounting cylinder end edge connection provided with an annular tapered cone filter feed plate, the feed tube, the lower end with a spherical connected to the inside of the work mounting cylinder angle, etc. provided with a guide feed cone fixedly mounted column, the upper end of the feed tube is provided with adjustable horizontal right cone cone barrel, the lower half of the barrel feeder with a spherical work mounting cylinder provided with a horizontal cyclic retarder blanking plate, the utility model has structure design compact, efficient power transmission, material transfer smoothly, stirring discharge effect and other advantages.

Classifications:**International (IPC 8-9):** B65G65/38 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
CN208700096 U	20190405	CN201820809983U	20180529

Priority:

CN201820809983U 20180529

Probable Assignee: CLOUD NANCY FERNANDO FEED CO

Assignee(s): CLOUD NANCY FERNANDO FEED CO ; HAINAN SOUTHWEST FARMING TECHNOLOGY CO LTD ; SOUTHWEST YUNNAN GOD ANIMAL HUSBANDRY TECHNOLOGY CO LTD ; SOUTHWEST YUNNAN RED FEED CO LTD

10) Family number: 67402553 (CN206603013U)

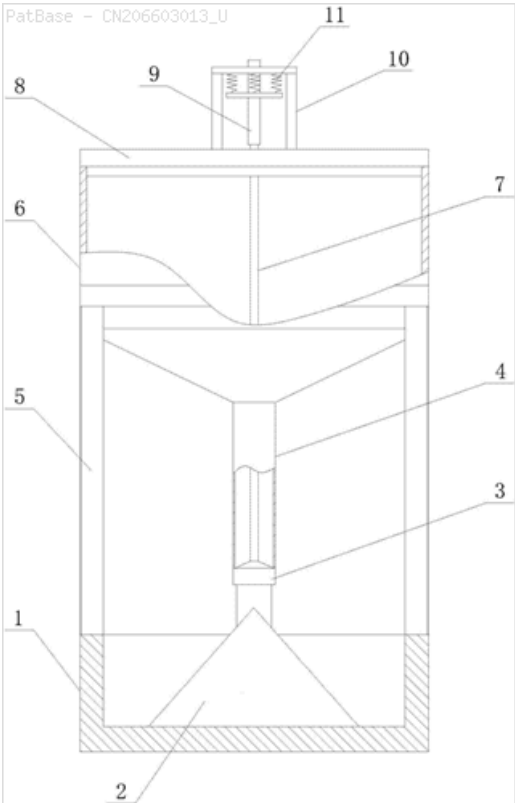
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Title: FEED FOR LIVESTOCK AND POULTRY ADDING MACHINE CONSTRUCTS

Abstract: The utility model discloses a feed for livestock and poultry adding machine constructs, include feeding groove, install feed bin and unloading on -off mechanism in the feeding groove top, feeding groove is the circular recess, and the middle part in the feeding groove is provided with the distributing device of positive cone shape structure, the top of feed bin is provided with cang gai, and just the bottom is connected with the unloading pipe, and the unloading vertical installation of pipe and the mouth of pipe are towards the awl point of distributing device, unloading on -off mechanism including lie in unloading pipe down material stopper, the vertical installation of port department feeding rod, install at the switch bracket of storehouse lid lateral surface and hang a plurality of extension springs on the switch bracket, to passing cang gai and feed bin in proper order down and extending to the lower port of unloading pipe, the material is filled in and is connected with feeding rod's lower extreme on feeding rod follow, cup joint in an internal thread loop bar feeding rod's upper end, the internal thread loop bar while is connected with a plurality of extension springs. The utility model discloses convenient operation and unloading efficiency are very high, the fodder exhaust condition in the feed bin of can not following can not appear.

Classifications:

International (IPC 8-9): A01K5/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN206603013 U	20171103	CN201720369594U	20170410

Priority:

CN201720369594U 20170410

Probable Assignee: SHANDONG BINZHOU ANIMAL SCIENCE AND VETERINARY MEDICINE ACAD

Assignee(s): (std): SHANDONG BINZHOU ANIMAL SCIENCE AND VETERINARY MEDICINE ACAD

Assignee(s): SHANDONG BINZHOU ANIMAL SCIENCE AND VETERINARY MEDICINE ACADEMY ; SHANDONG BINZHOU INST OF ANIMAL HUSBANDRY AND VETERINARY

Inventor(s): (std): QU GUANGGANG ; TANG SHIYUN ; FU SHIJUN ; SHEN ZHIQIANG ; GUO SHIJIN

11) Family number: 70445476 (CN207604349U)

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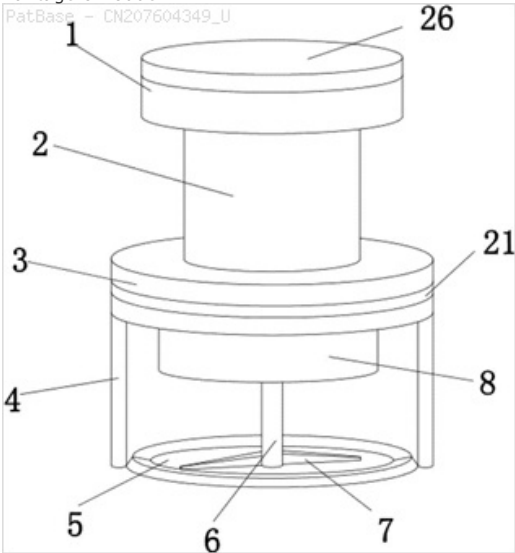
Title: LIVESTOCK -RAISING MATERIAL FEEDING UNIT

Abstract: The utility model discloses a livestock -raising material feeding unit, including the feed inlet, the bottom of feed inlet is equipped with logical feed cylinder, the bottom that leads to the feed cylinder was equipped with the feed cylinder, cross the bottom left and right sides of feed cylinder and all install branch, the bottom intermediate position of crossing the feed cylinder is equipped with the standpipe, the bottom of standpipe is equipped with the pivot, the bottom of pivot is equipped with the silo, the silo links to each other with the standpipe through the pivot, the scraper blade is installed to the bottom left and right sides of pivot, the inside central point who leads to the feed cylinder puts and installs the cone, the top outer wall of cone has cup jointed the lagging, the briquetting is all installed to the left and right sides of lagging, vertical cylinder is all installed to the bottom left and right sides of lagging, vertical cylinder passes through the montant and leads to the feed cylinder to link to each other. This livestock -raising material feeding unit has reached the effect that the animal can

be eaten by oneself, has realized the benefit that the angle is even and the volume ejection of compact can be controlled of the ejection of compact, also has and has avoided the extravagant advantage of fodder.

Classifications:

International (IPC 8-9): A01K39/014 A01K5/00
A01K5/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
■ CN207604349 U	20180713	CN201721702422U	20171209

Priority:

CN201721702422U 20171209

Probable Assignee: TANGSHAN MOISTEN ANIMAL HUSBANDRY MACHINERY CO LTD

Assignee(s): (std): TANGSHAN MOISTEN ANIMAL HUSBANDRY MACHINERY CO LTD

Assignee(s): TANGSHAN YUN HUI ANIMAL HUSBANDRY MACHINERY CO LTD ; TANGSHAN MOISTEN ANIMAL HUSBANDRY MACHINERY CO

Inventor(s): (std): WANG HUI

12) Family number: 20635452 (GB835500A) © PatBase

Title: Improvements in or relating to feeding appliances for livestock

Abstract: 835,500. Animal feeding appliances. ELT, L. G., and ELT, J. H. Dec. 10, 1958 [Jan. 20, 1958], No. 1917/58. Class 5(2). A feeding appliance, particularly for use by poultry, comprises a hopper 1 which may be either tubular or conical in shape, supported above a trough 2 which may or may not be formed with a conical portion 3 in its base, in such a manner that the height of the hopper above the trough may be adjusted to vary the outlet throat 7. A guide element in the form of a rod 5 is fixed to the trough and extends through apertures 10 and 11 in cross members 8 and 9 secured to the hopper, the guide element being embraced by a ring 15 formed at one end of a bolt 13. The bolt passes over a bracket 14 and through the wall of the hopper and is formed at its other end with a screw thread for engagement by a wing nut 16. Tightening the wing nut brings the guide element 5 into abutment with the edge of the hole 11 and thereby locks the hopper in the required position of adjustment. As shown in Fig. 3, the bolt may be moved by means of a handle 18 eccentrically pivoted in a slot formed at the outer end of the bolt.

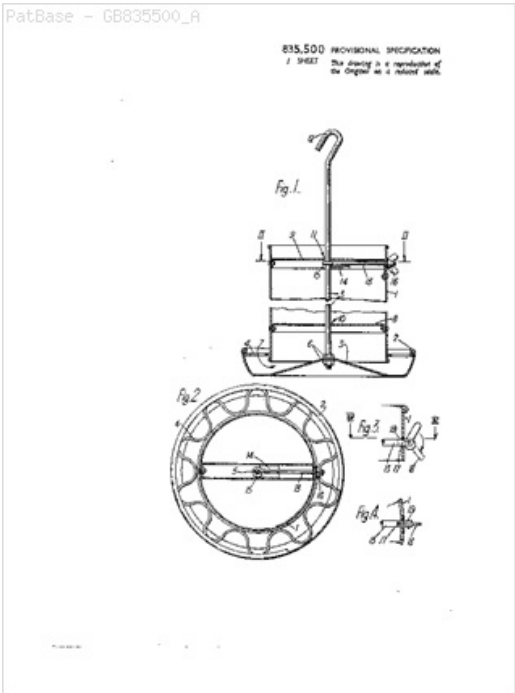
Classifications:

International (IPC 8-9): A01K5/02 (Advanced/Invention);
A01K5/00 (Core/Invention)

International (IPC 1-7): A01K5/00

CPC: A01K5/0225

European: A01K5/02D



Family:

Publication number	Publication date	Application number	Application date
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Priority:

GB19580001917 19580120

Probable Assignee: JOHN HENRY ELT

Assignee(s): (std): JOHN HENRY ELT ; LEONARD GEORGE ELT

13) Family number: 1231272 (US3976232A)

Title: Device for emptying silos for bulk material, provided with a flat or slightly inclined bottom

Abstract: An improvement on a silo for delivery of fluid bulk material, such as livestock feed, grain, flour, spices, sugar, and similar provides for an inner compartment adjacent to the bottom of the silo of the shape approximately of a truncated cone or funnel, with the wider periphery thereof merging with the inside of the cylindrical wall of the silo and with the narrower periphery extending into a shorter vertical wall merging with the bottom of the silo. The lower portion of the cylinder wall of the silo forms with the truncated cone shell within it an annular channel. A central cone rises from the center of the bottom of the compartment. Material release openings are provided within the vertical cone wall and lead from the compartment into the channel.

Classifications:

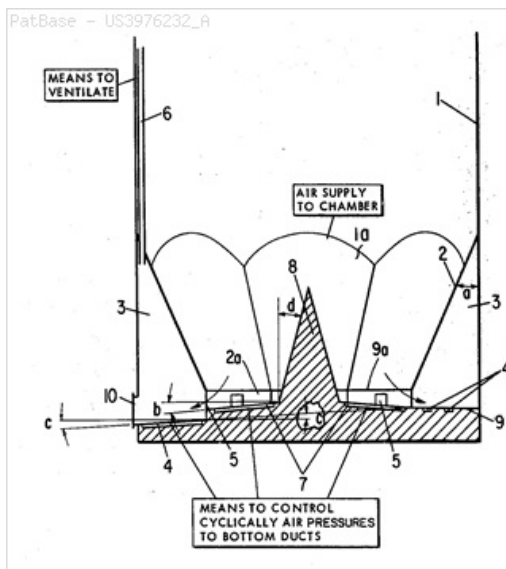
International (IPC 8-9): B65D88/72 (Advanced/Invention);
B65D88/00 (Core/Invention)

International (IPC 1-7): B01F13/02 B65D88/72 B65G3/14
B65G53/20 B65G65/40 B65G65/72 E04H

CPC: B65D88/72

European: B65D88/72

US: 222/193 222/462 406/91 52/197



Family:

Publication number	Publication date	Application number	Application date
BE1871835 A	19741118	BE19742053765	19740719
DE2336984 A1	19750206	DE19732336984	19730720
DE2336984 C2	19841108	DE19732336984	19730720
ES428426 A1	19761001	ES19740428426	19740719
FR2237826 A1	19750214	FR19740025395	19740722
FR2237826 B1	19780120	FR19740025395	19740722
GB1427648 A	19760310	GB19740032402	19740722
IT1017315 A	19770720	IT19740025391	19740719
TR17837 A	19760413	TR19740017837	19740719
US3976232 A	19760824	US19740490367	19740722

Priority:

DE19732336984 19730720

Probable Assignee: PETERS AG CLAUDIUS

Assignee(s): (std): PETERS AG CLAUDIUS ; PETERS CLAUDIUS AG

Assignee(s): PETERS AG CLAUDIUS DT ; CLAUDIUS PETERS AG ; CLAUDIUS PETERS AG 2000 HAMBURG DE ; CLAUDIUS PETERS AKTIENGESellschaft ; PETERS AG C

Inventor(s): (std): HEIDEBROEK REINHARD ; HEIDEBROEK REINHARD H H

Inventor(s): HEIDEBROEK REINHARD 2000 HAMBURG DE

14) Family number: 3777082 (US4364335A)

Title: Animal feeder

Abstract: Feeder for grain or like type of feed comprising a cone supported substantially in the center of a circular member having upwardly extending lips. The cone can be of galvanized sheet metal or like material and the circular member can be a tire. The specific size of the circular member determines the size of the cone. A tractor tire in combination with a cone is well suited for a grain feeder for livestock.

Classifications:

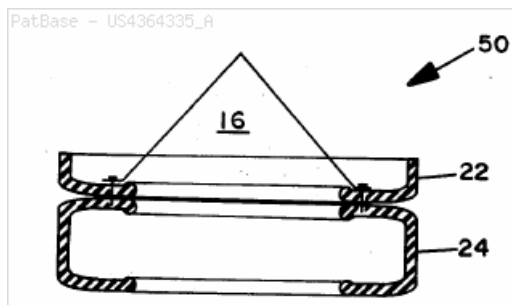
International (IPC 8-9): A01K5/01 (Advanced/Invention)

International (IPC 1-7): A01K5/00

CPC: A01K5/01 A01K5/0114

European: A01K5/01 A01K5/01B

US: 119/61 119/61.1



Family:

Publication number	Publication date	Application number	Application date
US4364335 A	19821221	US19810256076	19810421

Priority:

US19810256076 19810421

Probable Assignee: LIVINGSTON ALLAN

Assignee(s): (std): LIVINGSTON ALLAN

Inventor(s): (std): LIVINGSTON ALLAN

15) Family number: 43868756 (CN201315788Y)

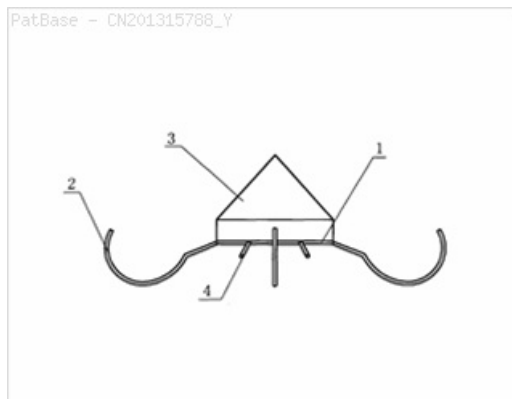
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Title: Blanking device for automatic feeder

Abstract: The utility model discloses a blanking device for an automatic feeder, which relates to a feeder blanking device for livestock raising, in particular to the blanking device for the automatic feeder suitable for pig raising. The blanking device comprises a circular ring and at least two pulling hooks, wherein the pulling hooks are downwards extended and bended, and are fixedly connected with the circular ring; and the pulling hooks are uniformly distributed along the circumference of the circular ring. The utility model is characterized in that the blanking device is also provided with a conical cap arranged on the circular ring; the cone tip is upward; the bottom cone edge is fixed and tangent with the outer diameter of the circular ring; the conical cap can be coiled and welded by thin metal sheets, and is then welded on the circular ring, or the conical cap can be integrally formed, and fixed in an insertion mode through a vertical inserting post fixed on the circular ring. The utility model solves the problem of easy undercut of fine feed and sticky feed, reaches the effect of uniform blanking, is particularly suitable for fine feed and sticky feed to reach the effect of uniform blanking, can replace a conical bulge in the center of a feed groove chassis, and reduces the manufacture cost.

Classifications:

International (IPC 8-9): A01K5/02 (Advanced/Invention);
A01K5/00 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN201315788 Y	20090930	CN200820203719U	20081116

Priority:

CN200820203719U 20081116

Probable Assignee: LIUJIE MO

Assignee(s): (std): LIUJIE MO

Assignee(s): MO LIUJIE

Inventor(s): (std): LIUJIE MO

Inventor(s): MO LIUJIE

16) Family number: 34661746 (ES1044443Y)

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Title: TOLVA MIXTA PERFECCIONADA

Abstract: Source: ES1044443U [ES] 1. Tolva mixta perfeccionada, del tipo apto para el suministro de comida de ganado vacuno preferentemente, que comprende un cuerpo (1) de silo cilíndrico vertical caracterizado porque dicho cuerpo (1) de silo presenta un depósito de agua (10) bajo un cono (2) o integrado en el, cuyas paredes conforman la rampa de distribución del pienso o comida contenida a un comedero circundante a su alrededor; porque dicho depósito (10) es apto para la contención de agua para bebida del ganado, distribuida al comedero por una pluralidad de bebederos automáticos (11) alojados en el comedero, porque el comedero está constituido por un faldon (7) o prolongación de la base de la tolva hacia fuera y arriba, rematado por un aro de refuerzo, encontrando entre dicho aro de refuerzo del faldon (7) y el cuerpo (1) una pluralidad de barras separadoras (5) dispuestas radialmente e inclinadas, conformando cada par de barras un

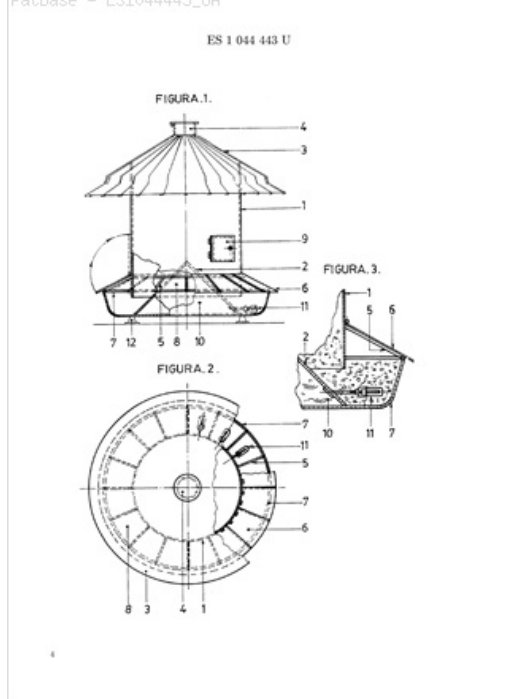
compartimiento individual (8) para el uso de un animal, porque en cada uno de estos compartimentos individuales (8) se encuentra un bebedero (11) automatico, y porque cada compartimento (8) individual presenta una tapa (6) abatible de cierre sobre el comedero. **Machine translation:** 1. Mixed hopper perfected, of the type suitable for the food supply of cattle preferably, comprising a body (1) vertical cylindrical silo characterized in that said body (1) of the silo has a water tank (10) under a cone (2), the walls of which make up the ramp or integrated into the distribution of the feed or food contained to a trough surrounding around; said reservoir (10) is suitable for the containment of water for livestock drink, distributed to the trough by a plurality of automatic waterers (11) housed in the feeder, the feeder consists of a skirt (7) or extension of the base of the hopper out and up, topped by a stiffening ring, Finding between said shroud of the skirt (7) and the body (1) a plurality of spreader bars (5) radially arranged and inclined, forming each pair of rods an individual compartment (8) for the use of an animal, because in each of these individual compartments (8) is a trough (11), and in that each compartment (8) has a cover (6) hinged closure on the feeder.

Classifications:

International (IPC 8-9): A01K5/02 A01K7/02 (Advanced/Invention);
A01K5/00 A01K7/00 (Core/Invention)

International (IPC 1-7): A01K5/02 A01K7/02

PatBase - ES1044443_UA



Family:

Publication number	Publication date	Application number	Application date
ES1044443 UA	20000501	ES19990002600U	19991018
ES1044443 Y1	20000901	ES19990002600U	19991018
ES1044443 YA	20000901	ES19990002600U	19991018

Priority:

ES19990002600U 19991018

Probable Assignee:

LOPEZ REMIRO ANTONIO

Assignee(s): (std):

LOPEZ REMIRO ANTONIO

Inventor(s): (std):

LOPEZ REMIRO ANTONIO

17) Family number: 48770607 (KR20110003980U)

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Title: Kelp manufacture rice cake manufacture formation and redetermination of the grass which is formed will get deceived and the method which it follows with the machinery for in him (Machine translation)

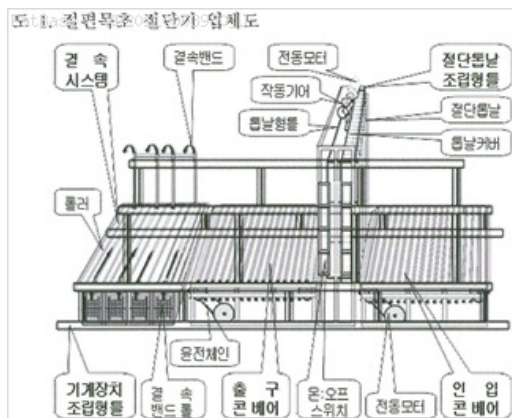
Abstract: Source: KR20110003980U

Machine translation: The idea which it sees in compliance with the electromotive motor the mind vertical side elder brother saw blade which can be operated assembly the cutter body which is formed and kelp manufacture will load the grass which is formed and the mouth which is horizontal with cutter direction the mouth which is an electromotion which it does it will dance and the cone it cut and temporarily the grass of vast quantity and manual operation, binding together mechanical device of semiautomatic about under using, the rice cake it cut and with the fact that regarding the machinery which is the possibility of putting out, in compliance with the electromotive motor of the cutting saw blade and horizontal condition of low operation at in compliance with the electromotive motor the operation was controlled closely in mouth cone cutting belt place kelp manufacture to raise the grass which is formed, it puts, both sides of the machinery which it seesThe close adhesion control system which attaches by manual operation about under applying at use after controlling rightly, it will transfer with the vertical side elder brother saw blade piece and it will become, kelp manufacture it will be caused by in the pressure which comes down and it will follow the mouth cone it will cut and it will pass by, the vertical side elder brother saw blade it will pass and at weight of the grass which is formed the rice cake grass will be formed and the intermediate transfer cone it will cut and it will pass and it will be will reach, the hand operation vinyl binding together mechanical device which from the vinyl band roll which in binding together mechanical device under roller comfort power feed of the binding together flag and attaches the band, with method of manual operation about under withdrawl after fixing in the location which binding together is accurate, is coming out with preceding technique About under applying, kelp manufacture the grass which is formed rice cake manufacture formation anger it does the fact that, with feature the effect of administrative expense curtailment about under applying from the anti- re-facility which the individual farmhouse and the livestock raising farmhouse, group breeding facility and compost anger facility, sleeps hereupon and feed anger facility back, the machinery of the idea which it sees it has it comes.

Classifications:

International (IPC 8-9): A01F15/00 (Advanced/Invention)

CPC: A01F29/005 A01F15/005 A01F29/08



Family:

Publication number	Publication date	Application number	Application date
KR20110003980 U	20110422	KR20090013466U	20091016

Priority:

KR20090013466U 20091016

18) Family number: 12846181 (FR2716082A)

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Title: Livestock semi-liq. feed prepn. and distribution unit

Abstract: The prepn./distribution unit consists of a container (1) with a hopper (2) to receive the meal used for the feed, a stirrer and mixer (8) and an outlet (12) at the bottom. Water for mixing with the meal or cleaning the container is fed in through inlets at the top so that it drops onto the surface of an inverted dispersal cone (9) on a driven vertical shaft (5) which has an auger (6) at the top to push the flour down into the container and prevent liquids from rising, and a turbine (11) at the bottom for ejecting the prepd. feed through the outlet (12). In a variant of the design, the unit has an input auger at the top between an outside hopper and the cone. The auger is turned by the drive shaft through bevel gears.

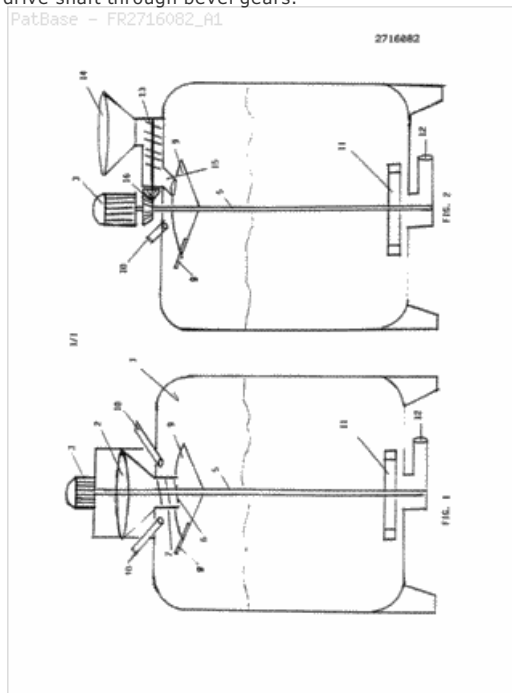
Classifications:

International (IPC 8-9): A23N17/00 (Advanced/Invention);
A23N17/00 (Core/Invention)

International (IPC 1-7): A23N17/00

CPC: A23N17/007

European: A23N17/00E



Family:

Publication number	Publication date	Application number	Application date
FR2716082 A1	19950818	FR19940002016	19940217

Priority:

FR19940002016 19940217

Probable Assignee:

Assignee(s): (std):

Assignee(s):

Inventor(s): (std):

Inventor(s):

GOFF J LE

GOFF J LE

LE GOFF JOSEPH

JOSEPH LE GOFF

LE GOFF JOSEPH

19) Family number: 22893604 (GB1086433A)

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Title: Improvements in or relating to feeding appliances for livestock

Abstract: 1,086,433. Livestock feeding appliances. L. G. ELT and J. H. ELT. Sept. 19, 1966 [Nov. 5, 1965], No. 47066/65. Heading A1M. A tube feeder of the kind in which a tube 1 is adjustably supported over a trough 2 by means of a rod 5 which extends through openings 10, 11 in lower and upper cross members 8, 9 is characterized in that the tube is held in the adjusted position by means of a bolt 12 which is rotated to engage the rod 5 and lock it against the sides of apertures 17, 18 formed in the arms 15, 16 of a locking member movable with the tube. The locking member is secured to the upper cross member 9 and the bolt is provided with a handle 19. The member 9 may be arranged to project out of the upper end of the tube and comprise a central portion carrying the locking member, a pair of connecting portions and a pair of parallel attachment portions for connection to the wall of the tube, the connecting portions sloping downwardly from the ends of the central portion to the attachment portions. The tube 1 may be conical and the trough 2 may be formed with a cone-shaped part 3 as shown. The part 3 may be formed separately from the trough. When the feeder is used for poultry, a wire 4 is provided at the top of the trough.

Classifications:

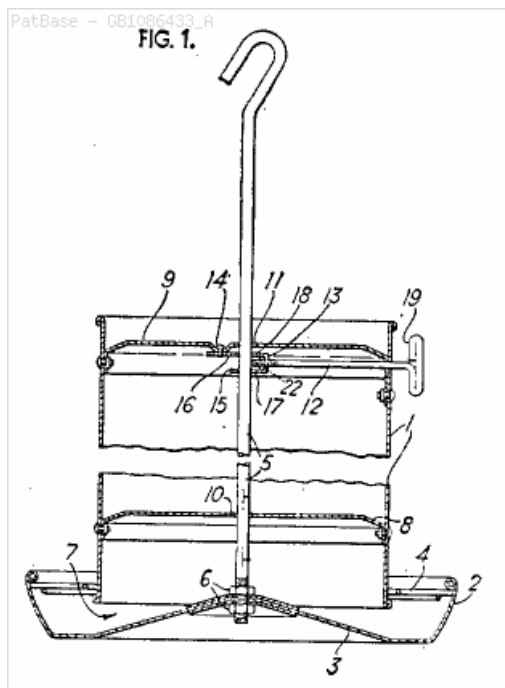
International (IPC 8-9): A01K39/012 (Advanced/Invention);

A01K39/00 (Core/Invention)

International (IPC 1-7): A01K5/00

CPC: A01K39/012

European: A01K39/012



Family:

Publication number	Publication date	Application number	Application date
GB1086433 A	19671011	GB19650047066	19651105

Priority:

GB19650047066 19651105

Probable Assignee: JOHN HENRY ELT

Assignee(s): (std): JOHN HENRY ELT ; LEONARD GEORGE ELT

20) Family number: 44895123 (US2011192777A)

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Title: CLEANING AND MATERIAL SEPARATING DEVICE FOR WASTEWATER, PARTICULARLY FROM LIVESTOCK HUSBANDRY

Abstract: The invention relates to a device for cleaning fluid media containing particulate matter, particularly from livestock husbandry, by means of ozonization in a closed ozonization container (11) and subsequent separation of the particulate matter portions. A vertically extending hollow cylindrical fixture (17) is disposed in the closed ozonization container (11). The fixture (17) is operatively connected to a rotating agitator shaft (16), wherein agitation means (18, 19) are associated with the agitator shaft (16), and the fixture (17) is equipped with supply lines (22, 23) by means of which ozone can be fed.

Classifications:

International (IPC 8-9): B01F3/04 B01F7/00 B01F7/22 B03B5/32 B04B1/00 B04B11/06 B04B3/00 B04B5/10 C02F1/38 C02F1/52 C02F1/78 C02F101/30 C02F103/00 C02F103/20 C02F9/00 C02F9/04 (Advanced/Invention);

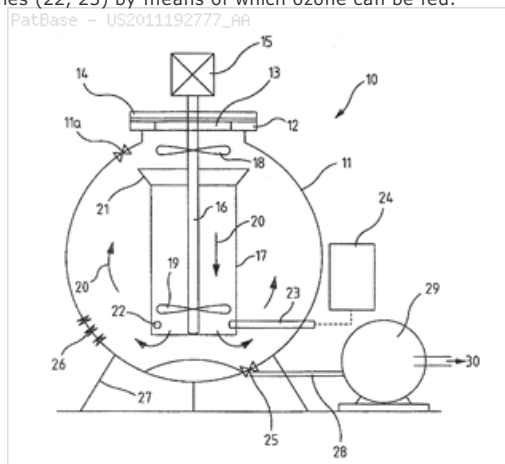
B01F3/04 B01F7/22 B03B5/32 B04B1/00 B04B11/06 B04B3/00 C02F101/30 C02F103/00 C02F103/20 (Advanced/Non-invention); B01F3/04 B01F7/00 B04B5/00 C02F1/38 C02F1/78 (Core/Invention)

CPC: C02F1/38 B01F3/04609 B01F7/22 B01F2003/04652

B01F2003/04673 B01F2003/04886 B03B5/32 B04B1/00 B04B3/00 B04B11/06 C02F1/78 C02F2101/30 C02F2103/008 C02F2103/20 C02F2303/02 C02F2303/24 C02F2303/26

European: B01F3/04C5G2 B01F7/22 B03B5/32 B04B1/00 B04B11/06 B04B3/00 C02F1/38 C02F1/78 L01F3/04C20B4E L01F3/04C5W12 L01F3/04C5Y10 M02F101/30 M02F103/00S M02F103/20 M02F303/02 M02F303/24 M02F303/26

US: 210/198.1 210/198.100P 210/205 210/209 210/219 210/220 210/259 210/512.1



Family:

Publication number	Publication date	Application number	Application date
DE102008050223 A1	20100429	DE200810050223	20081007

DE102008050223 B4	20110728	DE200810050223	20081007
DE502009010340 D1	20150122	DE200950010340T	20091007
DK2334605 T3	20150323	DK20090744058T	20091007
EP2334605 A1	20110622	EP20090744058	20091007
EP2334605 B1	20141210	EP20090744058	20091007
US2011192777 AA	20110811	US20090122804	20091007
US8889002 BB	20141118	US20090122804	20091007
WO10040563 A1	20100415	WO2009EP07300	20091007

Priority:

DE200810050223 20081007 EP20090744058 20091007 WO2009EP07300 20091007

Probable Assignee: ENTWICKLUNGSGES FRANK MOHR U GERHARD KRUEGER JUN GBR

Assignee(s): (std): ENTWICKLUNGSGES FRANK MOHR U G ; ENTWICKLUNGSGES FRANK MOHR U GERHARD KREGER JUN GBR ; ENTWICKLUNGSGES FRANK MOHR U GERHARD KRUEGER JUN GBR ; ENTWICKLUNGSGES FRANK MOHR U GERHARD KRUGER JUN GBR ; MOHR FRANK ; KRUEGER GERHARD ; ENTWICKLUNGSGESELLSCHAFT FRANK ; ENTWICKLUNGSGESELLSCHAFT FRANK MOHR U GERHARD KRUEGER

Assignee(s): ENTWICKLUNGSGESELLSCHAFT FRANK MOHR U GERHARD KRUEGER JUN GBR 25715 EDELAK VERTRETUNGSBER GESELLSCHAFTER FRANK MOHR 20249 HAMBURG U GERHARDKRUEGER 25767 BUNSOH ; ENTWICKLUNGSGES FRANK MOHR U GERHARD KREGER JUNGBR ; ENTWICKLUNGSGES FRANK MOHR U GERHARD KRUEGER JUN G

Inventor(s): (std): KRUEGE GERHARD ; KRUEGER GERHARD ; MOHR FRANK

Agent(s): PATENTANWAELTE SCHOLZ AND PARTNER; SCHOLZ HARTMUT; HENRY M FEIEREISEN LLC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

21) Family number: 52787887 (TWD151187S)

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Title: Stuffy barrel aging dryer (Machine translation)

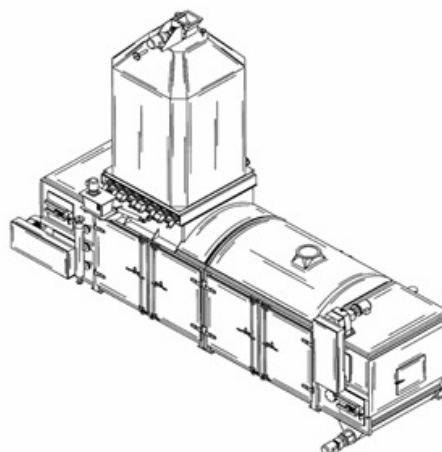
Abstract: Source: TWD151187S

Machine translation: Items purposes; feed dry use for system and achieve high-temperature sterilization and raise the height of the animal nutrition absorption stuffy barrel aging dryer, especially suitable for aquaculture and livestock feed.; Creative features?; the creation of a stuffy barrel aging dryer shape design, clean lines, generous stable shape, has a visual aesthetic effect.; Refer to the accompanying drawings shows the creation stuffy barrel aging appearance of the dryer, the overall design is substantially a rectangular body, the rectangular body side of the top of the set to the top of the arc, and has a vent in the top of the arc, at the same time separate at the top of the arc flanking a square vertical tube, the four corners of the square stand barrel Cutaway each level, and square stand located at the top of the barrel was the same diameter degree tapered like square pyramid, cone top set a feed inlet, the feed inlet next to another with a motor Furthermore, the square stand the bottom of the barrel has a complex diagonals between plural oblique rod has a rod is linked to each other, through a body with a hydraulic cylinder located in the square stand tube flanking connection linked complex diagonals, open and close by opening and closing the mouth so that the internal synchronization by means of the hydraulic cylinder, the bottom of each side of the rectangular body with a big under was inverted cone discharge port and the waste outlet, whereby the formation of a prudent generous, yet trendy stuffy barrel aging quenched and dryer, to increase the visual effects and attract consumers attention; overall perspective, the The creation of unique and together in a practical application is made in accordance with the law, in line with the new design patent application elements Yuan.

Classifications:

Locarno class: 15/03

PatBase - TWD151187_S1



立體圖(代表圖)

Family:

Publication number	Publication date	Application number	Application date
TWD151187 S1	20130101	TW20120301753F	20120330

Title: LIVESTOCK FEED DISTRIBUTOR WITH SLIDABLE METERING CONTAINER - HAS LINKAGE TO ALTERNATELY OPEN DISTRIBUTION AND METERING OPENINGS

Abstract: The distributor comprises a container for food stuffs in meal or pellet form of which the bottom is cone shaped (2) with an opening (3) which can be opened or closed by a quadrant (4) pivotal on shaft (5). The cone is extended by a skirt (6) on which slides a metering container (7) with a conical bottom (8) ending in an aperture (9) which is opened or closed by a quadrant (10) pivotal on shaft (11). The skirt has a radial lug (12) with a vertical bearing block (13) in which turns shaft (14) by means of handle (27) at its upper end. The lower end is threaded (15) and screws into a lug (17) integral with metering container (7). Two links (19, 24) connected to the quadrants are connected to a lever (20, 23) pivotal about a shaft (21) so that when the upper quadrant is opened the lower quadrant shuts off, and vice versa.

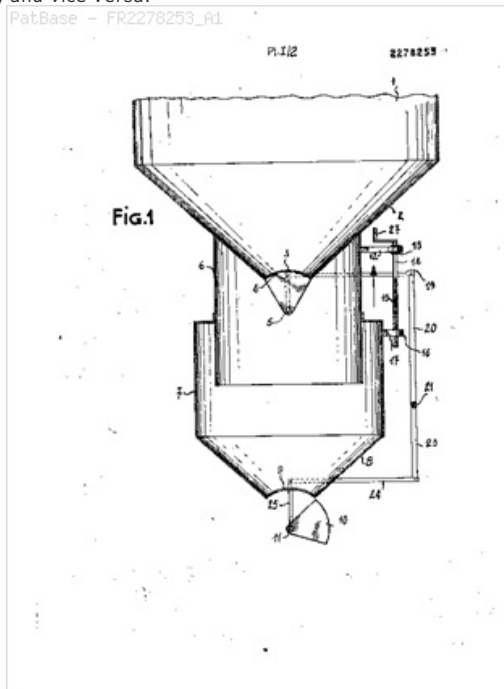
Classifications:

International (IPC 8-9): A01K5/02 (Advanced/Invention);
A01K5/00 (Core/Invention)

International (IPC 1-7): A01K5/00

CPC: A01K5/0258

European: A01K5/02E



Family:

Publication number	Publication date	Application number	Application date
FR2278253 A1	19760213	FR19740019505	19740606
FR2278253 B3	19770408	FR19740019505	19740606

Priority:

FR19740019505 19740606

Probable Assignee:

DURAND RENE

Assignee(s): (std):

DURAND RENE

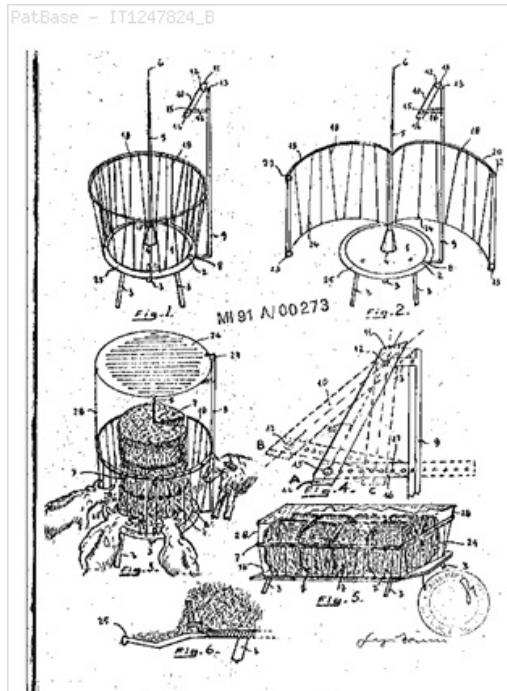
Title: DEVICE FOR CUTTING, STORING AND DISPENSING FODDER, PARTICULARLY IN BALES, FOR FEEDING DOMESTIC OR WILD ANIMALS

Abstract: The invention concerns the sector relating to the technique of constructing stations for storing and dispensing fodder for feeding domestic and wild livestock. The technical problem to be solved consists in building a multipurpose device for cutting, storing and dispensing fodder, particularly in bales of any shape and dimensions, for feeding domestic or wild livestock. The device can be positioned out in open countryside and can be transported to any location of the territory. The device comprises a circular or elliptical platform 1, fixed to the centre 4 of which there is a vertical bar 5 with a point 6. A vertical upright 9 fitted with an oblique blade 10 is fixed at one point around the periphery 2 of the platform 1. A frustoconical flared rail 18, formed by elongate elements 24 spaced a certain distance apart from each other, runs around the periphery 2 of the platform 1. Each bale of fodder is loaded from above, impaling it on the point 6 and thus cutting the ties or net around it with the blade 10 and opening it up in a single action.

Classifications:

International (IPC 8-9): A01F (Subclass/Invention)

International (IPC 1-7): A01F

**Family:**

Publication number	Publication date	Application number	Application date
IT1247824 B	19950102	IT1991MI00273	19910204
ITMI910273 A0	19910204	IT1991MI00273	19910204
ITMI910273 A1	19920805	IT1991MI00273	19910204

Priority:

IT1991MI00273 19910204

Probable Assignee:

SACCHI LUCIO

Assignee(s): (std):

SACCHI LUCIO

Inventor(s): (std):

SACCHI LUCIO

24) Family number: 29564656 (DE19619201A1)

© PatBase

Title: Agricultural shelter for farm animals

Abstract: The animal shelter is designed with various different function areas arranged in sequence. The function areas for lying, soiling, eating are arranged from outside inwards in circles inside each other for optimum use of space. A milking area can be provided as the innermost function area in the centre of the circle. The horizontal excrement area is provided with a scraper and the liquid manure etc. is removable through gulleys. The fodder is transported by conveyor from outside the stall to the centre and over a central distributor into the feeding racks. Waste air heated by the animals rises to open ventilators in the roof

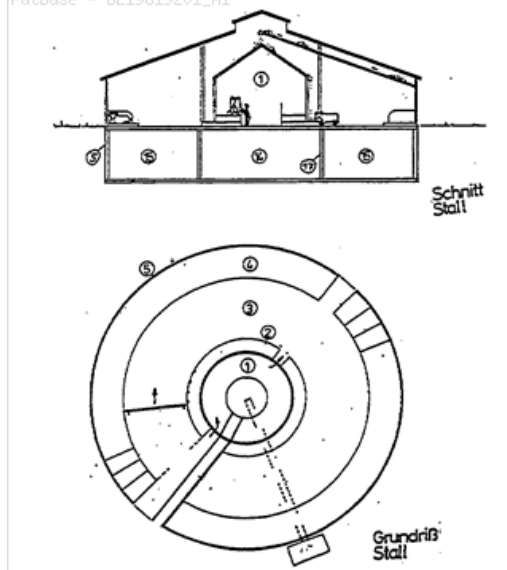
Classifications:

International (IPC 8-9): A01K1/00 E04H5/08 (Advanced/Invention);
A01K1/00 E04H5/00 (Core/Invention)

International (IPC 1-7): A01C3/02 A01K1/00 E04H5/08 F24F7/00

CPC: A01K1/0041 E04H5/08

PatBase - DE19619201_A1

**Family:**

Publication number	Publication date	Application number	Application date
DE19619201 A1	19971113	DE19961019201	19960511
DE29623764 U1	20000113	DE19962023764U	19960511

Priority:

DE19961019201 19960511 DE19962023764U 19960511

Probable Assignee: HAFNER MARTIN

Assignee(s): (std): HAFNER MARTIN ; LEIPRECHT MARTIN ; MAIER GREGOR

Assignee(s): MAIER GREGOR 88316 ISNY DE ; LEIPRECHT MARTIN 88074 MECKENBEUREN DE ; HAFNER MARTIN 88367 HOHENTENGEN DE

Inventor(s): (std): HAFNER MARTIN ; LEIPRECHT MARTIN ; MAIER GREGOR

Inventor(s): MAIER GREGOR 88316 ISNY DE ; LEIPRECHT MARTIN 88074 MECKENBEUREN DE ; HAFNER MARTIN 88367 HOHENTENGEN DE

25) Family number: 45731403 (TW230307Y)

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Title: Raising livestock feed vessel (Machine translation)

Abstract: Source: TW230307Y **Machine translation:** The present record as the Department of Animal Husbandry and Feed container with an off turret, the Department by a bottom and top support frame body 68, the incorporation of the composition; ?? beneath the bottom end of the bottom plate, the knockout of the tool is provided with a plurality of disc body, while the feet rack Zhu top ? oblique rod and the bottom disc having only Zhu bar beneath the bottom side is provided with a through-hole having at sik sesame Zhu only for drainage; In another bottom dish 00, ? vertical retaining a net-like frame body and the frame body for pasture placed on the bottom side of the projection 00 has a bottom plate connected to the top of the support body to maintain pasture disposed cone-like outer circumferential distribution of its characteristics.

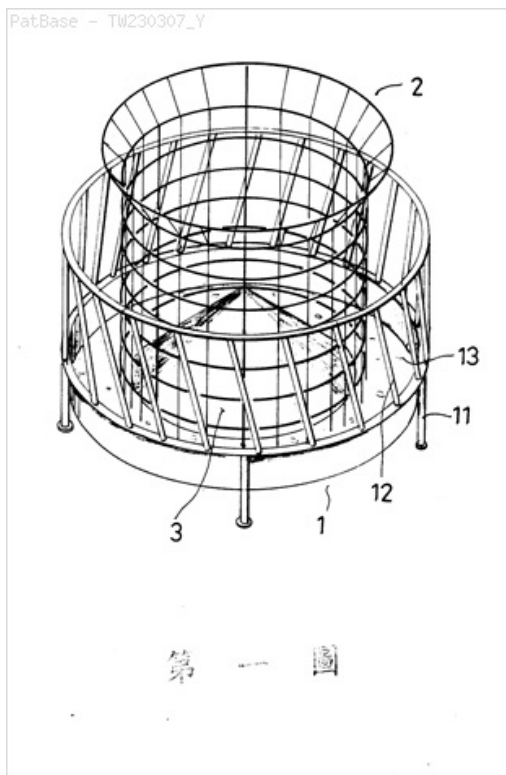
Classifications:

International (IPC 8-9): A01K5/01 (Advanced/Invention);

A01K5/01 (Core/Non-invention)

International (IPC 1-7): A01K5/01

PatBase - TW230307_Y



Family:

Publication number	Publication date	Application number	Application date
TW230307 Y	19940911	TW19940202119U	19940214

Probable Assignee: HUANG DONGRONG

Assignee(s): HUANG DONGRONG

26) Family number: 56728520 (US2014171312A)

© PatBase

Title: PESTICIDAL COMPOSITIONS AND PROCESSES RELATED THERETO

Abstract: This document discloses molecules having the following formula ("Formula One"): and processes associated therewith.

Classifications:

International (IPC 8-9): A01C1/08 A01N A01N25/26 A01N25/28

A01N37/10 A01N37/18 A01N37/20 A01N37/28 A01N37/34

A01N37/46 A01N41/10 A01N43/04 A01N43/06 A01N43/08

A01N43/10 A01N43/14 A01N43/16 A01N43/20 A01N43/36

A01N43/40 A01N43/48 A01N43/50 A01N43/54 A01N43/56

A01N43/60 A01N43/653 A01N43/78 A01N43/82 A01N43/84

A01N43/90 A01N47/10 A01N47/22 A01N47/28 A01N47/32 A01N47/36

A01N47/38 A01N53/00 A01N53/12 A01N53/14

A01N61/00 A01P7/00 A01P7/02 A01P7/04 A1N25/26 A61K31/166 A61K31/167 A61K31/17 A61K31/41 A61K31/4196

A61K31/42 A61K31/4245 A61K31/426 A61K31/49 A61K31/4965 A61K31/505 A61K31/5375 A61K45/06 C07C211/27

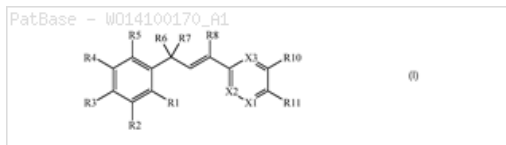
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C07C255/46 C07C255/57 C07C259/08 C07C271/22 C07C271/24 C07C275/24 C07C327/46 C07C335/14 C07C63/70

C07D207/16 C07D207/26 C07D209/08 C07D209/48 C07D211/58 C07D213/40 C07D213/61 C07D231/10 C07D231/12

PatBase - W014100170_A1



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C07D307/52 C07D309/14 C07D331/04 C07D333/36 C07D401/10 C07D405/04 (Advanced/Invention);
A01N25/26 (Core/Invention);
A01N (Subclass/Invention)
CPC: A01N37/34 A01N37/18 A01N43/40 A01N43/20 C07C255/57 C07D295/12 C07D213/61 C07D207/16 C07D331/04
A01N43/50 A01N43/08 A01N43/78 A01N43/60 A01N43/16 A01N43/82 A01N43/54 A01N47/32 A01N43/653 C07D295/192
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514/522 514/523 514/568 514/585 514/599 514/615 514/616 514/617 544/176 544/335 544/336 546/337 548/143 548/204
548/265.4 548/338.1 548/375.1 548/539 549/493 549/496 549/510 549/68 549/88 558/416 558/426 562/405 564/149
564/155 564/161 564/29 564/74

Family:

Publication number	Publication date	Application number	Application date
AR094168 AA	20150715	AR2013P104896	20131219
AU2013361519 AA	20140626	AU20130361519	20131218
AU2013361519 BB	20170511	AU20130361519	20131218
BR112015014555 A2	20170711	BR20151114555	20131218
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DK2934118 T3	20180423	DK20130866362T	20131218
DK2934118 T5	20181119	DK20130866362T	20131218
EP2934118 A1	20151028	EP20130866362	20131218
EP2934118 A4	20160831	EP20130866362	20131218
EP2934118 B1	20180131	EP20130866362	20131218
ES2667580 T3	20180511	ES20130866362T	20131218
HK1210666 A1	20160506	HK20150111535	20151123
ID201701128 A	20170217	ID2015P0003724	20131218
IL239438 A0	20150730	IL20130239438	20131218
IL239438 A1	20180920	IL20130239438	20131218
IN05179DN2015 A	20160722	IN2015DN05179	20150615
JP2016508982 T2	20160324	JP20150549623T	20131218
JP6382839 B2	20180829	JP20150549623T	20131218
KR20150097652 A	20150826	KR20157019010	20131218
MA38247 A1	20161031	MA20150038247	20150708
MA38247 A1	20161031	MA20130038247	20131218
MA38247 B1	20180330	MA20130038247	20131218
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PH2015501393 A	20150902	PH20150501393	20150617
PL2934118 T3	20180731	PL20130866362T	20131218
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US2014171312 AA	20140619	US20130132977	20131218
US2014171313 AA	20140619	US20130133034	20131218
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US2017158597 AA	20170608	US20170438797	20170222
US2017267629 AA	20170921	US20170613589	20170605
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US9212164 BB	20151215	US20130133034	20131218
US9630910 BB	20170425	US20150880766	20151012
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WO14100170 A1	20140626	WO2013US76113	20131218
ZA201504239 A	20161130	ZA20150004239	20131218

Priority:

US20120739026P	20121219	EP20130866362	20131218	US20130132977	20131218
US20130133034	20131218	WO2013US76113	20131218	US20150880766	20151012
US20150880739	20151012	US20170438797	20170222	US20170613589	20170605

Probable Assignee: DOW AGROSCIENCES LLC

Assignee(s): (std): BORUWA JOSHODEEP ; DAU AGROS AJENSIZ ELELSI ; DOW AGROSCIENCES LCC ; DOW AGROSCIENCES LLC ; LO WILLIAM C ; HUNTER JAMES E ; IYER PRAVIN S ; PATNY AKSHAY ; WATSON GERALD B

Assignee(s): WILLIAM C LO ; PRAVIN SIYER ; AKSHAY PATNY ; DOW AGROSCIENCES LLC INDIANAPOLIS ; JAMES E HUNTER ; GERALD B WATSON ; JOSHODEEP BORUWA

Inventor(s): (std): BORUWA JOSHODEEP ; IYER PRAVIN S ; HUNTER JAMES E ; PATNY AKSHAY ; LO WILLIAM C ; WATSON GERALD B ; JAMES E HUNTER ; WILLIAM C LO ; JOSHODEEP BORUWA ; AKSHAY PATNY ; PRAVIN S IYER ; GERALD B WATSON ; LO VILLYAM K ; KHANTER DZHEJMS E ; UOTSON DZHERALD B ; PATNI AKSHAJ ; IJER PRAVIN S ; BORUVA DZHOSHODIP ; LO WILLIAM ; HUNTER JAMES ; WATSON GERALD

Inventor(s): PRAVIN SIYER ; LO WILLIAM C FISHERS ; HUNTER JAMES E INDIANAPOLIS ; WATSON GERALD B ZIONSVILLE ; PATNY AKSHAY WALTHAM ; BORUWA JOSHODEEP MALLAPUR

Agent(s): FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; SMART AND BIGGAR; SARGENT AND KRHAN; FLEISCHER ENGELS AND PARTNER MBB PATENTANWALTE; WELLS ANDREW; HGF LTD; ELZABURU SLP ELZABURU SLP; LIU SHEN AND ASSOCIATES; IR YT WIDJOJO; EITAN MEHULAL AND SADOT; YURIDICHESKAYA GORODISSKIY I PARTNERY OOO FA; HALISE BETUEL ATABAY VARLIK; CARL D; CORVIN CARL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

27) Family number: 1760837 (DE2854468A1)

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Title: PORTABLE ANIMAL FODDER MIXER AND DISTRIBUTOR - HAS VERTICAL PADDLE MIXER AND HORIZONTAL BELT CONVEYOR DISTRIBUTOR

Abstract: Portable implement for mixing and distribution of animal fodder into mangers includes on a two-wheel chassis a silo with a vertical worm mixer and paddles. The worm shaft is driven through a bevel gear from the power take-off of a tractor. This also drives through a V-belt a short belt conveyor on which the mixt. is discharged and distributed in the mangers. This saves manual labour for mixing and distributing the fodder for animals in stables.

Classifications:

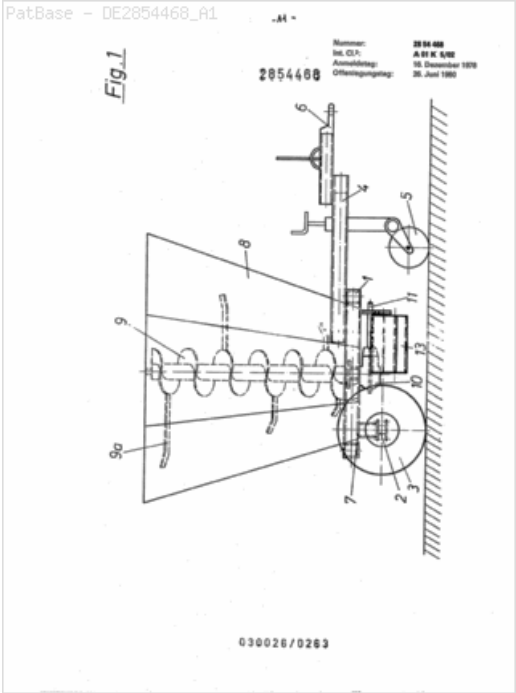
International (IPC 8-9): A01K5/02 (Advanced/Invention);

A01K5/00 (Core/Invention)

International (IPC 1-7): A01K5/02 A23N17/00

CPC: A01K5/0266

European: A01K5/02F



Family:

Publication number	Publication date	Application number	Application date
DE2854468 A1	19800626	DE19782854468	19781216

Priority:

DE19782854468 19781216

Probable Assignee: LENGERICH BERNARD VAN GMBH

Assignee(s): (std): LENGERICH BERNARD VAN GMBH

Assignee(s): BERNARD VAN LENGERICH GMBH AND CO FA ; FA BERNARD VAN LENGERICH GMBH AND CO

Inventor(s): (std): ALTGILBERS BERNHARD

28) Family number: 3880279 (DE3507284C1)

© PatBase

Title: DRINKING DEVICE FOR SMALL ANIMALS

Abstract: A description is given of a device having a drinking basin (10) which exhibits a rear wall (16) with fastening through-openings and an upper basin part (18) arranged over a basin shell (14), and having a water-supply device (12) which exhibits a vertical water line stub (30), mounted on the upper basin part (18), and a suspended lever-actuated locking valve (34).; In order to ensure that the basin (10) of this type, known from DE-GMS 8330496, can be fastened in rows simply and rapidly on a fixed basin support (wall) which is provided with a water line for connecting the stubs (30), it is proposed to provide the upper basin part (18) with a rearwardly open slot (26) for mounting the stub, to provide the stub (30) with at least one outer collar (32 and 38) for resting on the edge of the slot, and to provide the rearwall (16) of the basin with a cutout (24) through which the stub part (32, 42), without locking valve (34) with lever (36), to be arranged beneath the upper basin part (18) can enter into the basin (10) when the latter is pushed by means of its slot (26) onto the stub (30) until it butts against the basin carrier (wall), as a result of which the stub (30) can be fixedly clamped on the upper basin part (18) and the valve (34); can be suspended and the basin can be fastened.

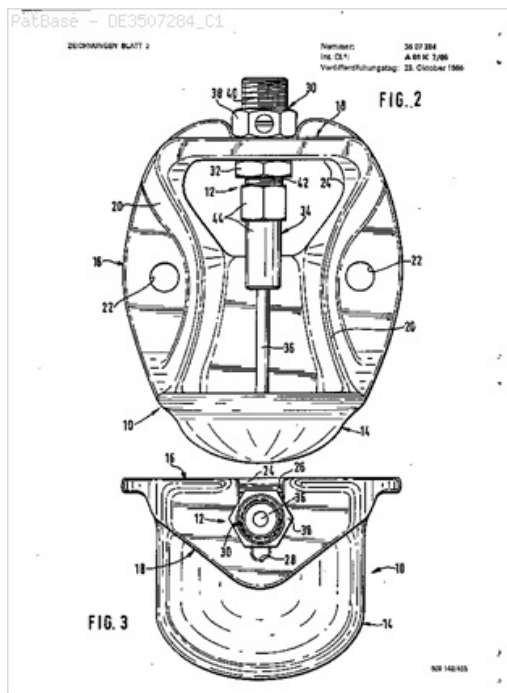
Classifications:

International (IPC 8-9): A01K7/06 (Advanced/Invention);

A01K7/00 (Core/Invention)

International (IPC 1-7): A01K1/02 A01K7/06

CPC: A01K7/06

**Family:**

Publication number	Publication date	Application number	Application date
DE3507284 C1	19861023	DE19853507284	19850301
FR2578149 A1	19860905	FR19850008613	19850307
FR2578149 B1	19891222	FR19850008613	19850307

Priority:

DE19853507284 19850301

Probable Assignee: SUEVIA HAIGES KG**Assignee(s):** (std): SUEVIA HAIGES GMBH CO ; SUEVIA HAIGES KG**Assignee(s):** SUEVIA HAIGES GMBH AND CO 7125 KIRCHHEIM DE**Inventor(s):** (std): HAIGES ADOLF**Inventor(s):** VERZICHT DES ERFINDERS AUF NENNUNG ; ADOLF HAIGES**29) Family number: 43358086 (CA2611533A)**

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Title: NEW ENERGY, METHODS/TECHNIQUES/PROCESSES USED TO PRODUCE VARIOUS PRODUCTS TECHNOLOGIES

Abstract: Several method of Microwave assisted extraction of oils that we will use on oil/tar sands and/or refuse plastic and/or rubber (eg. tires), bituminous coal, and/or biomass, and/or kerosene and/or naphtha and/or propane and/or oil/tar sands with corn, eucalyptus, oil palm, and coconuts, maize, jatropha and other possibilities algae bagasse, miscanthus, sugar beet, sorghum, grain sorghum, switchgrass, barley, hemp, kenaf, potatoes, sweet potatoes, cassava, sunflower, fruit, molasses, corn, stover, grain, wheat, straw, cotton, other biomass. One method/process add a non-aqueous organic extractant to the source material (with a some content that absorbs microwave radiation and mixing it with a solvent that is transparent to microwave radiation) and there is our newly invented tumbler to expose the mixture to microwave radiation. Then suddenly raise the temperature via microwave, cool it down (that is has a more concentrated source of volatile oils), add more source material and alternate back and forth (heat - cool). Co-solvents (dipole moment), some of which are, alkanes, hexane, carbon tetrachloride, liquid CO₂... (don't heat that much from microwaves and are microwave transparent) so the source material (heats up and releases oils) and the oils are cooled as they are released into the non-aqueous organic. For source materials that need rehydration we can use ethanol, methanol, saline solutions, and other mixture of solvents. Other methods, is to suddenly raise the temperature via microwaves and apply pressure until the source material's boundaries explodes. The microwave-transparent extraction medium cools the substance that flows out of the source material. Extractants can be used singly, mixed or in a series (continuous). For the oil/tar sands in addition to hexane we plan to add deionized water. We may use impregnation of saline solution (eg. KCL). To extract plastic from garbage land fills and real time collections or processing we: 1. Run agitated water to loosen the organic material, possibly use a tumbler to unstuck and remove caked together materials. 2. Then further loosen and sifts larger pieces from smaller (biodegradable material; less durable, unlike plastic and metal of which are very durable and the larger pieces are of more economical use to us) by a grate the horizontally spins spilling out the smaller pieces and possibly. 3. Finally we run the processed material down an assembly line to separate plastic from metal. 4. We could use mixers of some type using flexible spatula like (spinning) blades that will tear large any pieces of less durable materials such as cardboard, while leaving hunks of plastic (largely) undamaged. 5. We could use Artificial Intelligence or sorter with a remote camera that decides if the material's contents are made up of what, such as cardboard versus plastic. If there is cardboard (probably torn by the spatula mixer into smaller pieces) the batch could be re-agitated with water and possibly the tumbler and the grate again. 6. The sorting in the assembly line work can done by automated (eg. robots run by Artificial Intelligence) to sort between, plastic, glass and metal versus toxic components of for example of computers.

Classifications:**International (IPC 8-9):** A23D9/00 B01J19/12 B09B3/00 B29B17/02 C10C3/08 C10G1/04 C10G32/04 C11D1/10

C12P19/00 (Advanced/Invention);

C12P7/10 (Advanced/Non-invention)

CPC: B09C1/02 C10G1/04 C10G1/10 C10G21/12 C10G32/02 C11B1/10 Y02E50/16**European:** B09C1/02 C10G1/04 C10G1/10 C10G21/12 C10G32/02 C11B1/10 Y02E50/16**Family:**

Publication number	Publication date	Application number	Application date
CA2611533 AA	20090527	CA20072611533	20071127

Priority:

CA20072611533 20071127

Probable Assignee:

VOON GERARD G V

Assignee(s): (std):

VOON GERARD G V

Inventor(s): (std):

VOON GERARD

30) Family number: 51127181 (RU2010138235A)

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Title: Digester (Machine translation)**Abstract:** Source: RU2010138235A

Machine translation: Digester comprising a vertical cylindrical body, the reactivity of which is filled with livestock waste, the substrate with anaerobic biomass, the upper and lower lids in the form of a cone, tube feeding sewage pipe for drainage pipe for biogas and treated runoff, characterized in that in the central region of the anaerobic biomass located in the digester and (or) in the flow of the anaerobic biomass, located in the blades of the mixer are the sources of ultrasonic vibrations.

Classifications:**International (IPC 8-9):** C02F3/22 (Advanced/Invention)**CPC:** Y02W10/15**Family:**

Publication number	Publication date	Application number	Application date
 RU2010138235 A	20120320	RU20100138235	20100915

Priority:

RU20100138235 20100915

Probable Assignee:

YURI V CHESNOKOV

Assignee(s):

YURI V CHESNOKOV

31) Family number: 55320532 (RU2500175C)

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Title: INSTALLATION FOR SWOLLEN FODDER GRAIN PRODUCTION

Abstract: FIELD: food industry.SUBSTANCE: invention relates to equipment for fodder grain heat treatment at livestock farms and inter-farm feedstuff enterprises. The installation contains a sealed working chamber (the body whereof consisting of a cylindrical part (on the upper plane whereof a protection valve is positioned) and a conic part) and a receptacle bin with a damper and a loading doser. A distribution cone having an inclination angle equal to 45 degrees is mounted in the cylindrical part of the body under the loading doser. Along the vertical axis of the installation steam distributor rings are positioned at a distance equal to the major ring radius; the rings have holes with a diameter equal to 1.0-2.0 mm, the distance between the holes is equal to 100-120 mm. The steam distributor rings are connected to each other and to the steam system having a control cock. One steam distributor ring is positioned in the conic part of the body. The clearance between the inner surface of the body and the steam distributor rings is equal to 20-30 mm.EFFECT: invention usage will allow to enhance quality and increase quantity of grains treated.1 dwg

Classifications:**International (IPC 8-9):** A23L1/18 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
 RU2500175 C1	20131210	RU20120129124	20120710

Priority:

RU20120129124 20120710

Probable Assignee: G NAUCHNOE UCHREZHDENIE VRNII MEKH ZHIVOTNOVODSTVA ROSSIJSKOJ AKADEMII SEL SKOKHOZJAJSTVENNYKH NAUK**Assignee(s):** (std): G NAUCHNOE UCHREZHDENIE VRNII MEKH ZHIVOTNOVODSTVA ROSSIJSKOJ AKADEMII SEL SKOKHOZJAJSTVENNYKH NAUK**Assignee(s):** GOSUDARSTVENNOE NAUCHNOE UCHREZHDENIE VSEROSSIJSKIJ NAUCHNO ISSLEDOVATEL SKIJ INST MEKHANIZATSII ZHIVOTNOVODSTVA ROSSIJSKOJ AKADEMII SEL SKOKHOZJAJSTVENNYKH NAUK GNU VNIIMZH ROSSEL KHOZAKADEMII**Inventor(s):** (std): KOMARCHUK TAT JANA SERGEEVNA ; SYROVATKA VLADIMIR IVANOVICH ; VEKLENKO ANATOLIJ NIKOLAEVICH ; ZHDANOV NIKOLAJ ALEKSANDROVICH**32) Family number: 31342606** (US2007173679A)

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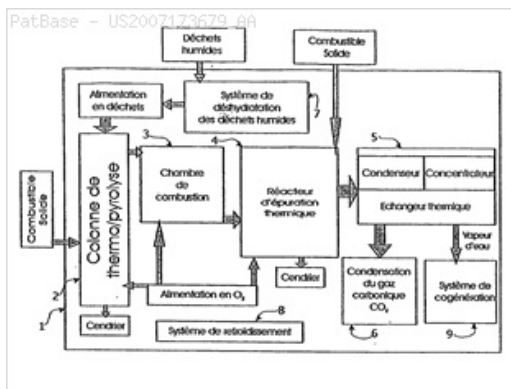
Title: THERMAL WASTE RECYCLING METHOD AND SYSTEM, AND APPLICATION THEREOF IN THE TREATMENT OF WASTE WITH A HIGH WATER CONTENT

Abstract: A thermal waste recycling system and method and to the application thereof in the treatment of high-water-content waste includes: a column for thermal waste pyrolysis, a thermal pyrolysis gas combustion chamber, a thermal purification and molecular cracking device, a heat exchange device comprising a condensation device and an element-concentration device, a device for the condensation of carbonic gas CO₂, a device for cooling the hot parts of the system, and a cogeneration installation.

Classifications:

International (IPC 8-9): B01J10/00 B01J19/00 B01J19/18 B01J8/04 B09B1/00 C02F1/00 C02F11/00 C02F11/06 C02F11/10 F23C9/00 F23G7/04 (Advanced/Invention); C02F11/12 (Advanced/Non-invention); B01J10/00 B01J19/00 B01J19/18 B01J8/04 B09B1/00 C02F1/00 C02F11/00 C02F11/06 C02F11/10 F23C9/00

F23G7/04 (Core/Invention);
C02F11/12 (Core/Non-invention)
International (IPC 1-7): C02F1/00 C02F103/00 C02F11/06
C02F11/10 C02F11/16 C02F11/18 F23G7/04
CPC: Y02W10/40 F23G7/04 C02F11/06 C02F11/10 C02F11/12
Y02E20/12
European: C02F11/06 C02F11/10 F23G7/04 M02F11/12 Y02E20/12
US: 110/210 422/187 422/188 422/189 422/193 422/194 422/195
422/228 422/232 422/233 422/236 422/239 422/610 422/610S
422/614 422/614S 422/621 422/621S 48/197.00A 48/197.00R
48/197A 48/197R 588/321 588/321P



Family:

Publication number	Publication date	Application number	Application date
CA2525431 AA	20051110	CA20042525431	20040513
CN100556833 C	20091104	CN200480020509	20040513
CN1823016 A	20060823	CN200480020509	20040513
EP1622839 A1	20060208	EP20040742716	20040513
FR2854887 A1	20041119	FR20030005794	20030514
FR2854887 B1	20050715	FR20030005794	20030514
RU2005138857 A	20060627	RU20050138857	20040513
RU2353590 C2	20090427	RU20050138857	20040513
US2007173679 AA	20070726	US20040556921	20040513
US7591982 BB	20090922	US20040556921	20040513
WO04101452 A1	20041125	WO2004FR01162	20040513

Priority:

FR20030005794 20030514 WO2004FR01162 20040513

Probable Assignee: BIO 3D APPLICATIONS

Assignee(s): (std): BIO 3D APPLIC ; BIO ZD APPLIKAS ON ; GUYOMARC H RAYMOND

Assignee(s): BIO 3D APPLICATIONS

Inventor(s): (std): GIOMARK KH RAJMON ; GUYOMARC H RAYMOND ; RAYMOND GUYOMARC H

Inventor(s): GIOMARK'KH RAJMON

Agent(s): FETHERSTONHAUGH AND CO; CABINET PONTET ALLANO AND ASSOCIES SELARL; GREER BURNS AND CRAIN; GREER BURNS AND CRAIN LTD

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

33) Family number: 5224518 (US4645603A)

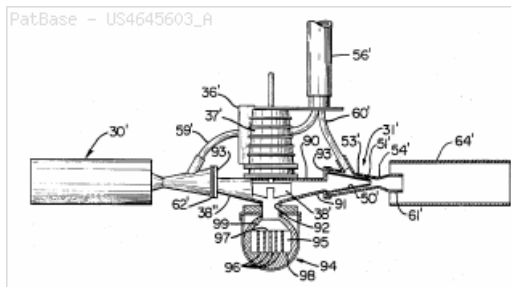
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Title: LIQUID AERATION DEVICE AND METHOD

Abstract: In the treatment of livestock waste, liquid to be aerated is pumped from a storage container, holding pond or lagoon and drawn through a magnetic air inductor inlet then pumped into a conical chamber towards an outlet port at the narrow end of each of a series of conical chambers. Air is drawn into the chamber by pressure differential and intermingled with the liquid and waste to be treated to hydrolyze the fines as the material passes through the chambers. A conically shaped expansion cone attached as an extension of each chamber outlet port permits further expansion and intermingling of the air and liquid waste mixture. An open-ended sleeve is attached in surrounding relation to the outlet of each discharge cone so that the air/liquid stream from each cone is directed axially through its sleeve, each sleeve having a spiral baffle plate extending along the interior length thereof to further promote agitation of the mixture and most complete aerobic digestion of the fines.

Classifications:

International (IPC 8-9): A01C3/02 B01F3/04 B01F3/08 B01F5/02 B01F5/04 B03C1/30 C02F3/12 (Advanced/Invention); A01C3/00 B01F3/04 B01F3/08 B01F5/02 B01F5/04 B03C1/02 C02F3/12 (Core/Invention)
International (IPC 1-7): B01F5/02 B03C1/02
CPC: Y10S261/75 C02F3/1294 A01C3/026 B01F3/0446 B01F3/0876 B01F5/0212 B01F5/0428 B03C1/30 B01F5/0421 Y02W10/15
European: A01C3/02E B01F3/04C4 B01F3/08F4 B01F5/02B2 B01F5/04C12M B01F5/04C12S4 B03C1/30 C02F3/12V6
US: 210/195.1 210/220 210/223 210/629 210/695 261/123 261/DIG.75



Family:

Publication number	Publication date	Application number	Application date
US4645603 A	19870224	US19840568367	19840105

Priority:

US19760673797 19760405 US19770849965 19771109 US19840568367 19840105

Probable Assignee:

FRANKL GERALD P

Assignee(s): (std):

FRANKL GERALD P

Inventor(s): (std):

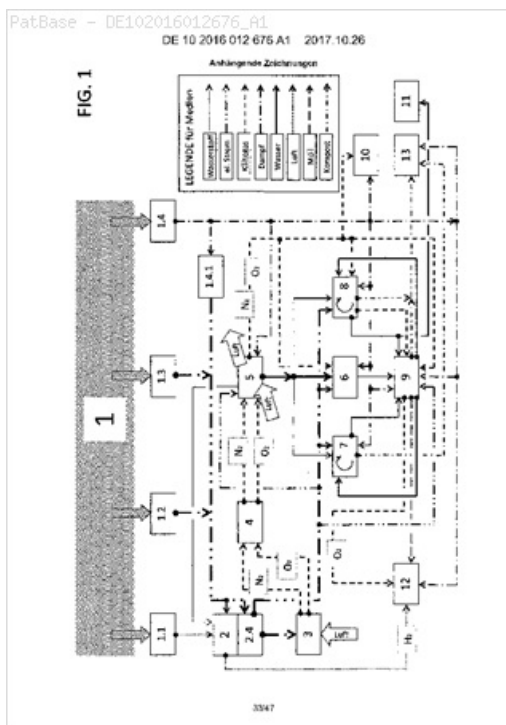
FRANKL GERALD P

Title: CRYO/SOL = HABITAT, ANWENDUNG EINES VERBUNDEN AUS ANLAGEN-KOMPLEXEN MIT VERFAHREN ZUR GEWINNUNG VON KAELTE, WASSER UND STOFFEN AUS DEM AMBIENTE ALS GRUNDLAGE FUER AUTARKE UND KOMFORTABLE LEBENSRAEUME IN ENTLEGENEN TROCKENGEBIETEN

Abstract: Source: DE102016012676A1 [DE] Vorrichtung als Verbund von mehreren Anlagen-Komplexen und Ausruestungen, dadurch gekennzeichnet, dass diese Anlagen-Komplexe und Ausruestungen in gezielten verfahrenstechnischen Kombinationen und Wirkungs-Verbindung miteinander angewendet werden, um in trockenen, heissen und vornehmlich fernab gelegenen Gebieten die Umsetzung der Sonnenenergie in die Formen elektrischer Strom und Dampf und aus der umgebenden Ressource Luft die Erzeugung der Stoffe – Stickstoff und Sauerstoff als Kaeltegas und deren Anwendungen zur Ausnutzung ihrer Kaelte-Energie sowie physikalischen, biologischen und chemischen Potentiale im Habitat durchfuehren zu koennen, – Wasser aus seiner in der Betriebsluft geloesten Form sowie aus der Regenerierung der Molsiebe in der Luftzerlegung (Komplex 4) und aus der Verdunstung in den Gewaechshaeusern (Pos. 9.5), in Verbindung mit neu kreierten Ausruestungen, gewinnen zu koennen und als Trinkwasser angewendet werden zu koennen und nach seinem Gebrauch in Anwendung als Koerperwasser und Brauchwasser in getrennten Kreislaeufen aufbereitet und der Anwendung wieder zugefuehrt zu werden, wobei ein Teil aus dem Brauchwasser in das Trinkwasser wieder zurueckgefuehrt wird, und aus dem Wasser – Wasserstoff als Treibstoff zur Erzeugung von elektrischem Strom und fuer weitere Anwendungen zu erzeugen und fuer den Einsatz in Zeiten ohne Sonnenschein zu speichern, sowie die Speicherung des Wassers in Behaeltern (Pos. 5.3 und 5.4) und damit verbunden in Synergie die Speicherung der technologischen und natuerlichen Kaelte aus der Nacht in dem Wasser zur Verwendung am Tag effizient zu ermoeeglichen, wodurch mit diesen erzeugten Stoffen und der Nutzung der Sonnenenergie Grundlagen fuer den Aufbau und das Betreiben eines Lebensraumes in fernab liegenden trockenen, heissen, unbewohnten oder nicht dauerhaft bewohnten Gebieten fuer eine grosse Zahl bis zu mehreren Hundert Menschen sowie Nutztiere geschaffen werden kann und dieser Lebensraum, gedeckt aus den im Ambiente vorliegenden Ressourcen, autark mindestens fuer eine Grundversorgung der Bewohner und Nutztiere wirken kann, zusammengesetzt aus mindestens – Komplex 1 zur Umformung der Sonnenenergie durch Solar-Thermie (Pos. 1.1) und/oder (Pos. 1.4) und/oder durch Photovoltaik (Pos. 1.2) und/oder durch Windkraft (Pos. 1.3) in thermische und elektrische Energie sowie die Bereitstellung des elektrischen Stromes gemaess seinen erforderlichen Parametern fuer die Verbraucher in dem Verbund der Anlagen-Komplexe und in – Komplex 2 eingesetzt werden kann zur Erzeugung, Verfluessigung und Lagerung von Wasserstoff, der als dauerhaft nutzbare Energieform genutzt und mit dem in den Zeiten ohne Sonnenschein dauerhaft, ergaenzt durch Windkraft, elektrische Energie erzeugt werden kann, einem – Komplex 3 zur Verfluessigung von Luft aus dem Ambiente mittels Verdichtern und ihre Trennung im Wesentlichen in die Gase Stickstoff und Sauerstoff mittels einer Trennsaeule, einem – Komplex 4, in dem die fluessigen Gase in Tanks gelagert und von hier ueber ihrem Siedezustand nach Bedarf in vielseitiger und synergetischer Verwendung als Gas fuer das Betreiben des Habitats oder als Fluessigkeit, abgefüllt z. B. in Flaschen, entnommen werden, dem – Komplex 5, in dem die Gase entsprechend ihrer Kaelte-Kapazitaet,... **Machine translation:** As a composite of a plurality of complex systems and equipment device, characterized in that these installations and equipment in targeted complex process technology combinations and effect communication with each other may be applied in dry, hot and mainly the implementation of solar energy in the far away lying areas forms of electrical power and steam from the surrounding air and the generation of the resource substances - nitrogen and oxygen as the cold gases and their applications to take advantage of its cold energy, as well as physical, biological and chemical potentials to perform in the habitat, - water in the form of solubilized air from its operation as well as the regeneration of the molecular sieves in the air separation complex (4) and out of the evaporation in the greenhouses (item 9.5), in conjunction with a newly created equipment, to be applied as drinking water and win And after its use in application to be as body of water and service water in separate circuits and the application to be supplied, wherein a portion of the hot water into the drinking water is recirculated, and from the water - hydrogen as fuel for generation of electrical current and for other applications and for use in times without sunshine, as well as the storage of water in containers (item 5.3 and 5.4) and connected in synergy storage of technological and natural refrigerant from the night in the water for use on the day efficiently, thereby enabling the use of solar energy generated with these substances and bases for establishing and operating a Habitat In remote dry, hot, uninhabited or not permanently inhabited regions for a large number of up to several hundred people and livestock can be created and this habitat, covered from the atmosphere present resources, self-sufficient at least for a basic supply of the residents and farm animals, composed of at least - Complex 1 for shaping the solar energy through solar Thermie (item 1.1) and/or (item 1.4) and/or by photovoltaic (item 1.2) and/or by wind (item 1.3) into thermal and electrical energy, as well as the follow-up of the electric current in accordance with its required parameters for the consumer in the composite of the plants and can be used in complex 2 - Complex production, liquefaction and storage of hydrogen which is considered to be permanently usable energy form used and with the In the times without sunshine permanently, supplemented by wind, electrical energy can be generated, a complex 3 for liquefaction of air from the atmosphere by means of compressors and their separation is effected essentially in the gases nitrogen and oxygen by means of a separation column, a complex 4, in which the liquid gases stored in tanks and from here above their boiling state of need in more versatile, and synergistic use as carrier gas for the operating of the habitat, or as a liquid, for example, filled into bottles, be withdrawn in the complex - 5, in which the cold gases according to their capacity,...

Classifications:

International (IPC 8-9): B01J19/00 (Advanced/Invention)
CPC: F25B27/00 C01B3/045 C01B13/0207 C25B1/04 F25J3/04181
 F25J3/04527 F25J3/04563 F25J3/04612 Y02E60/364 Y02P20/133
 Y02P20/134 C02F1/001 C02F2303/04



Family:

Publication number	Publication date	Application number	Application date
DE102016012676 A1	20171026	DE201610012676	20161020
DE102016012676 A8	20171228	DE201610012676	20161020

Priority:

DE201610004892 20160422

Probable Assignee:

KLEIM HOLGER

Assignee(s): (std):

KLEIM HOLGER

Inventor(s): (std):

KLEIM HOLGER

35) Family number: 3530600 (FR2352056A)

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Title: FODDER YEASTS PREPN. FROM VEGETABLE PROCESSING AQ. EFFLUENT - ESP. FROM MFR. OF WOOD FIBRE, CELLULOSE, PAPER AND FOOD PRODS. (SW 5.9.77)

Abstract: The lever of concn. of organic substance in the effluent soln. is first adjusted to 20-60 g/l., e.g. by recycling the soln. in the foregoing mfg. process, by dilution, by mixing with other suitable effluents etc. The soln. is then clarified by decanting filtration etc., sepd. solids being recycled. The clarified soln. is preheated by cooling the final prod. in a counter-flow heat exchanger, and its pH is adjusted to 1.0-2.5 by addition of a mineral acid. This acidity value is maintained while the temp. of the soln. is raised and then held at 70-180 degrees C. for 5 mins. to 24 hrs. The resulting ppte. is sepd. and the clear soln. cooled via the counter-flow heat exchanger. The soln. is then aerated violently at 60-95 degrees, decanted and delivered into a fermentation vessel. Periodic manual removal of the ppte. from the final heating reactors is pref. followed by in-place cleaning of the complete installation with a 5 percent to 20 percent soln. of NaOH at 40 degrees to 90 degrees C.

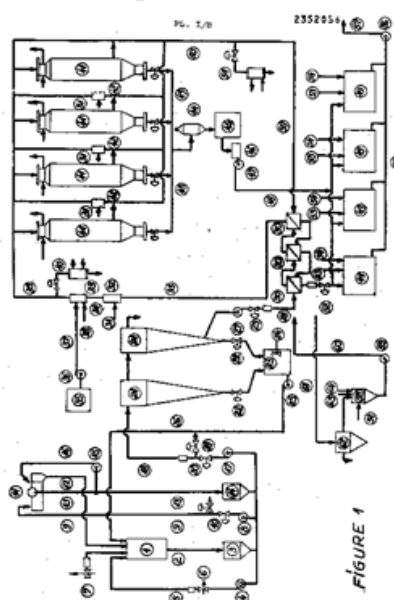
Classifications:**International (IPC 8-9):** A23K1/12 A23K10/32

C12N1/22 (Advanced/Invention);

A23K1/00 C12N1/22 (Core/Invention)

International (IPC 1-7): A23K1/12 C02C5/00 C12B3/00 C12C11/00 D21C11/00**CPC:** C12N1/22**European:** C12N1/22

PatBase - FR2352056_R1

**Family:**

Publication number	Publication date	Application number	Application date
BG30476 A3	19810615	BG19770035396	19770211
FR2352056 A1	19771216	FR19770004019	19770211
RO68595 B	19830429	RO19760084795	19760212
RO68595 B1	19830430	RO19760084795	19760212
SE7701537 A	19770813	SE19770001537D	19770211

Priority:

RO19760084795 19760212

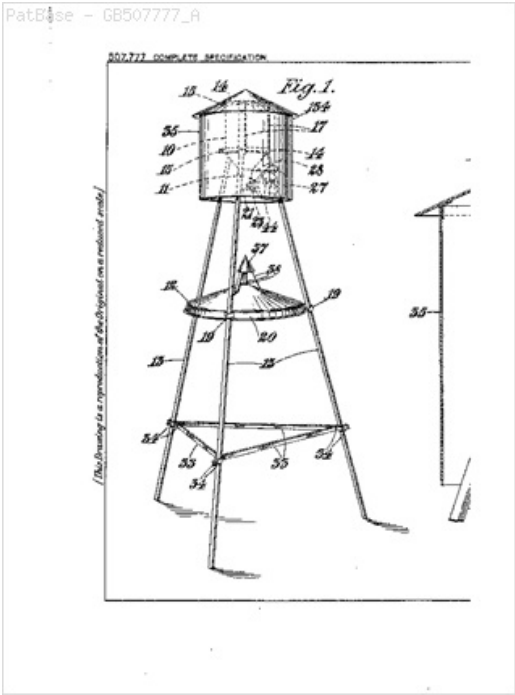
Probable Assignee: INST CERCETARE SI PROIECTARE T**Assignee(s):** (std): INST CERCETARE SI PROIECTARE T ; IND LEMNULUI**Assignee(s):** INDUSTRIA LEMNULUI ; INSTITUTUL DE CERCETARI SI PROIECTAL PENTRU INDUS ; INSTITUTUL CERCETARI PROIECTARI ; INSTITUTUL DE CERCETARI SI PROIECTARI PENTRU ; INSTITUTUL DE CERCETARI SI PROIECTARI PENTRU INDUSTRIA ; INSTITUTUL DE CERCETARE SI PROIECTARE PENTRU INDUSTRIA LEMNULUI RO ; INSTITUTUL DE CERCETARE SI PROIECTARE PENTRU INDUSTRIA LEMNULUI**Inventor(s):** (std): BOIAGIAN ; BOIAGIAN Z ; BOIAGIAN ZAVEN ; BOLAGIAN ZAVEN ; GEHEORGHE ; GHEORGHE M ; GHEORGHE MIRCEA ; STANESCU ; STANESCU E ; STANESCU ELISABETA**Inventor(s):** STANESCU ELISABETA RO ; Z BOIAGIAN ; ZAVEN BOLAGIAN MIRCEA GHEORGHE ET ELISABETA STANES ; ZAVEN BOLAGIAN MIRCEA GHEORGHE ET ELISABETA STANESCU ; GHEORGHE MIRCEA RO ; M GHEORGHE ; GEHEORGHE MIRCEA ; E STANESCU ; BOIAGIAN ZAVEN RO ; BOIAGIAN ZAVEN**36) Family number: 20421120 (GB507777A)**

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Title: Improvements in or relating to apparatus for dispensing granular, powdered or liquid materials such as foodstuff to livestock

Abstract: 36156. [Class 5 (ii)] Relates to apparatus for dispensing materials, for example, feeding stuff to poultry or other livestock, and of the kind comprising a container 10 having an outlet 11 and a closing device 21, a spreader 20, supporting legs 13, and means for detachably securing the container and spreader separately to the legs, and consists in forming the spreader with outwardly-extending hook-shaped lugs 19 for securing it to the legs. The container 10 is clamped by rings 14 to the flattened upper ends 17 of the legs 13. The spreader may have an auxiliary spreader 37. The container has a cover 35 to protect the container and an alarm clock 27 provided with a cam 30 which is arranged on the alarm winding arbor and is adapted to release a flap 21 normally closing the container. The container may have a double cone device 39, 41 to prevent the contents from clogging.

Classifications:
International (IPC 8-9): A01K39/012 (Advanced/Invention); A01K39/00 (Core/Invention)
International (IPC 1-7): A01K5/02
CPC: A01K39/012
European: A01K39/012



Family:

Publication number	Publication date	Application number	Application date
GB507777 A	19390621	GB19370036156	19371230

Priority:

GB19370036156 19371230

Probable Assignee: THOMAS LEONARD LANKFORD

Assignee(s): (std): JOHN WILLIAM HENRY STANGER ; LEONARD JACOB GIBSON LANKFORD ; THOMAS LEONARD LANKFORD