

Search query (3): [SP]: the main objective of this invention is a mobile dosing, mixing and packaging plant for powdery, granular and other products with similar characteristics that is characterized because it is comprised of a carrying structure and several areas within this structure that are called reception and weighing, loading, mixing, sack filling, sewing and labelling, metal detection, palletizing and cleaning. this invention is included within the industrial plants technical sector of manufacturing and mixing of powdery products, such as those used in the agro food industry, without limiting its application to products with similar characteristics in other sectors. prior state of the art traditionally, powdery products mixing machinery and plants are comprised of different phases for the product to be mixed, which operates in a vertical direction in other words, transitions from one phase to another occur from top to bottom, aided by gravity. an example of this is a spanish patent with request number p0381423, "machine for treating or mixing powdered, granular or doughy products" ("maquina para el tratamiento o mezcla de productos pulverulentos, granulados o pastosos") and characterized because it includes a bucket with its lower part widened and upper part progressively narrowing, with the height of the part that progressively narrows being the same size as at least the widened part and a device located near the bottom of the bucket that pushes the particles or grains located inside this bucket upward. the applicant, who is a subject matter expert, does not know of any mobile plant that includes the characteristics described herein and are claimed in this descriptive report. description of the invention a purpose of this invention is a mobile plant that is capable of dosing, mixing and packaging powdery, granular or other similar products, and transport them in a certified container measuring 40 feet and which operates on a standard horizontal surface, using all the required machinery, auxiliary items and tools. a purpose of this invention is a mobile plant whose operation is remote controlled, ensuring complete control of the product and its traceability, including a real time connection with a control centre designed for this purpose, at a location that is different than the location of the mobile plant itself. a purpose of this invention is the optimization of costs associated with production and the optimization of the product delivery time (time to market), ensuring compliance with current legislation and the easy operation of the plant, thus guaranteeing compliance with the current legislation of each destination country of the production line for the product that is to be manufactured. another purpose of this invention is the possibility of developing the initial formulas for the end products using raw materials from the local area where the plant has been installed in such a way, that for the manufacturing of products at each destination, you can use the characteristics and functionalities of the local raw materials from each country. finally, it is a purpose of this invention, to devise a quick and efficient production plant that includes an optimized assembling process, which allows starting operations and transporting the plant in a completely safe manner. the mobile plant described in this invention includes a carrying structure that is configured to be inserted inside a standard maritime shipping container that has no deformations, with a parallel pipe shape and configured to house all the items that comprise the plant inside it, and arranged horizontally. these items are comprised of: (i) a first area for reception and manual weighing of the different final product components that comprise the formula for the product that will be mixed and placed inside sacks, and subsequently transported to the load area by means of a heavy raw material stacker. (ii) a second area that includes a material loading area that is configured to introduce the powdery material that was already weighed in the first area into a total volume container inserting the products according to the formula, using a stacker that will unload the sacks received in the first area onto a hopper, and then passing through a sieve, and into a previously labelled container. (iii) a third mixing area where the container that was loaded in the second area is transported and placed under the powdery products mixer where the mixing is carried out. for this, the mixer holds the container using a set of claws and turns the container upside down and in a vertical position, subsequently returning it to its initial position once the product is mixed, separating the container from the mixer. (iv) a fourth area for sack filling, configured for the position of the container, which is held by a set of claws and turned vertically 180 degrees, on top of the sack filling machine, proceeding with the filling and weighing of the sacks, their subsequent sewing and labelling. (v) and a fifth metal detection area, configured to prevent the possibility that the sacks could contain any metallic particle, manual palletizing of the sacks and cleaning of the container so it can be used again. the carrying structure has a parallel pipe shape and is capable of holding all the items that comprise the plant inside. it is made up of several types of square pipes, supported at several support points, which provide it with rigidity. in its preferred embodiment, one of its sides can be disassembled into three parts that make up the work area. the structure also has a ladder for accessing the upper part at one end of the platform in order to access the product loading area. the structure assembly with its sides folded can be inserted into a standard sized container for maritime transport as mentioned before, preferably into a 40 foot maritime shipping container. prior to weighing, all the raw material will be identified when it reaches the warehouse using barcode labels in accordance with manufacturer specifications, for identification during the weighing phase. the reception and weighing area is precisely configured for weighing the product, which is carried out separately on the structure's hinged surface where the operator will weigh the different items used to devise the formula, inserting these into a sack. once the sack is weighed and closed, it will be placed on the pallet with the rest of the sacks that comprise the lot. everything directed and controlled by the plant's plc, which will direct the work for the operator while it records everything that has been carried out and will provide the labels to be placed on the sacks and ensure traceability. the aforementioned labels corresponding with the weighed ingredient lot for its identification during the loading will be placed on the sacks. these labels will include the exact kgs. weighed and will identify the lot of the formula to which the ingredient to be manufactured belongs to. once the pallet is completed, it will be stored in order, or it will be lifted to the loading area using a stacker in order to continue with the manufacturing process. once the sacks are ready at the platform, the requested container will be placed on the loading platform. if the container is the correct one as read by a frequency meter, the container will be raised and will be closed by a set of claws in order to proceed with the loading. at the loading area, one ingredient at a time will be requested from it: the barcode for the ingredient will be read and if it is the correct one ordered by the system, it will request loading of said ingredient and the loading will be activated (rotating valve and sieve) and the sack will be cut by the operator using a razor hooked to a chain that prevents the razor from being dropped inside with the product and will pour all the contents of the sack into the hopper, discarding the empty sack to the side. the aforementioned unloading hopper will have a grill and a suction orifice to prevent dusty material from escaping. the contents of the hopper will fall onto a sieve, through the rotating valve. this procedure is developed and conceived to eliminate any undesired product that may have been included with the raw material from the rest of the process. the sieve will be located at the proper height in order to horizontally extract the rotor for inspection and/or cleaning. once sieved, the proper amount of product according to the formula will fall into the container located below the sieve. the total volume container will be hermetically attached to the sieve in order to prevent dusty product from escaping when the container is being filled. the container will be labelled for follow-up and traceability. once the container is full, it is transported to the mixing area, placed under the mixer and once it is securely attached to the mixer, the container will be turned upside down and the mixing process will commence, which will homogenize the product. this step is essential to achieving a quality product. to accomplish this, a mixer with three arms has been designed that softens the process, an intensifier that is perpendicular to the mixer's generatrix, and both with frequency variators that program its speed, time and operating mode all of this providing heartiness to the process. the tight sealing of the mixer is achieved using special sealing designs with long durability and air tightness guaranteed. once a certain time has elapsed and the mixing is completed, the container is returned to its initial position where it is separated from the mixer and transported to the packaging area. once the contents of the container have been mixed and homogenized, it is transported to the sack filling or packaging area, where using a co

Results: 54

20) Family number: 42531455 (JP2008260542A)

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Title: GRAIN BAGGING DEVICE

Abstract: PROBLEM TO BE SOLVED: To share a bagging means for a seed disinfection and drying facility, and a grain dry-adjustment facility. SOLUTION: A container (8) containing seeds is configured to supply seeds to a storage hopper (16a) by the seed disinfection and drying facility (A) and a seed container conveying device (7). The grains dried and adjusted by the grain dry-adjustment facility (B) is configured to supply grains to the storage hopper (16a) by a grain supplying means (19). An opening/closing portion and an opening/closing means through which the container (8) and the grains are provided to the lower end portion of the storage hopper (16a). A bagging means (16) is provided below the storage hopper (16a).

Classifications:

International (IPC 8-9): A01C1/08 A01F25/00 A61L2/04 B65B1/06

B65B1/32 B65B35/44 B65B37/02 B65B37/18

B65B65/08 (Advanced/Invention);

A01F25/00 B65B1/06 B65B35/44 B65B37/00 (Core/Invention)

JP F-Term: 2B100 2B100/AA02 2B100/BA10 2B100/BC01 2B100/BC03

2B100/BC04 2B100/HA15 3E054 3E054/AA13 3E054/BA01 3E054/CA01

3E054/DA07 3E054/DA08 3E054/EA03 3E054/FA02 3E054/FA07

3E054/FE10 3E054/GA01 3E054/GA03 3E054/GB02 3E054/GC01

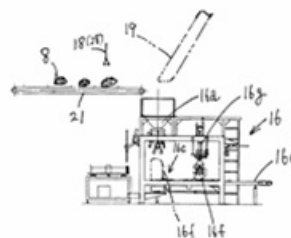
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3E055/BB01 3E055/CA01 3E055/DA02 3E055/DA07 3E055/DA20

3E055/EA01 3E055/EA07 3E055/FA01 3E118 3E118/AA07 3E118/AB06

3E118/AB20 3E118/BA08 3E118/BA09 3E118/BB03 3E118/BB04
 3E118/DA02 3E118/DA03 3E118/DA09 3E118/EA07 3E118/EA10 2B051
 2B051/AA03 2B051/AB01 2B051/BA09 2B051/BB03 2B051/BB04
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 3E056/CA01 3E056/DA03 3E056/EA05 3E056/FH15 3E118/AB08
 3E118/EA04 4C058 4C058/AA30 4C058/BB03 4C058/CC05 4C058/CC07
 4C058/CC09 4C058/EE23 4C058/JJ21
JP F-Index: A01F25/00/F B65B1/06 B65B35/44 B65B37/02 B65B37/18
 A01C1/08 A61L2/04/A B65B1/32 B65B65/08

PatBase - JP2008260542_A2



Family:

Publication number	Publication date	Application number	Application date
JP2008260542 A2	20081030	JP20070102709	20070410
JP2012179050 A2	20120920	JP20120063699	20120321
JP5354636 B2	20131127	JP20070102709	20070410
JP5440638 B2	20140312	JP20120063699	20120321

Priority:

JP20070102709 20070410 JP20120063699 20120321

Probable Assignee: ISEKI AND CO LTD

Assignee(s): (std): ISEKI AGRICULT MACH

Assignee(s): ISEKI AND CO LTD

Inventor(s): (std): MUTA HIROICHI ; TAMANOI KAZUTOSHI ; OKUMURA YUICHI ; FUKUDA TETSUYA ; FUKUNAGA DAISAKU ; MIZOTA MORIKAZU ; SATO KOICHI

21) Family number: 4708464 (FR2501012A)

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Title: PACKAGED INSTALLATION TO PRODUCE CEREAL BASED ANIMAL FEED - HAS WEIGHING, MILLING, MIXING AND BAG FILLING MACHINES ON COMMON BASE FRAME

Abstract: The installation is constructed on a transportable base frame and comprises, in combined sequence, the following units:- (a) weighing/dosing equipment for cereals minerals etc., (b) a grinding mill, e.g. a hammer mill; (c) a mixing machine;.

Classifications:

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

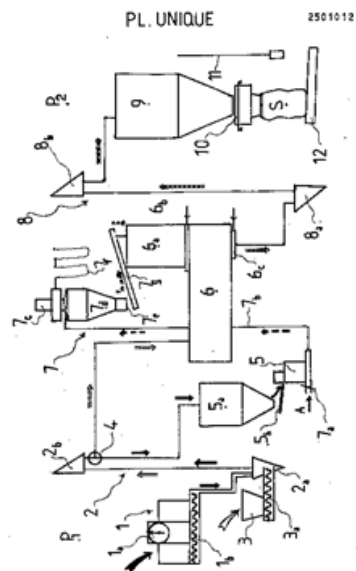
A23N17/00 (Core/Invention)

International (ipc 1-7): A23N17/00

CPC: A23N17/007

European: A23N17/00E

PatBase - FR2501012_H1



Family:

Publication number	Publication date	Application number	Application date
FR2501012 A1	19820910	FR19810004902	19810306
FR2501012 B1	19850315	FR19810004902	19810306

Priority:

FR19810004902 19810306

Probable Assignee: DENIZOT JEAN GEORGES

Assignee(s): (std): DENIZOT JEAN GEORGES

Inventor(s): (std): DENIZOT HENRI ; JEAN GEORGES
Inventor(s): JEAN GEORGES HENRI DENIZOT

22) Family number: 10259521 (JP5162119A)

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Title: METHOD AND DEVICE FOR FEEDING CEMENT

Abstract: PURPOSE: To provide a method and device for feeding cement wherein the weight of cement can be precisely and easily measured by improving known technology relating to a cement feeding device. CONSTITUTION: A rotary metering device 8e is connected to the lower part of a hopper 8b of a cartridge tank 8₂. The rotary metering device converts the weight of cement to volume to meter the cement, wherein a metering vane 8e₂ is provided in a metering cylinder 8e₁ so that the vane can be manually rotated through a sprocket 8e₄, chain 8e₇, sprocket 8e₅, and handle 8e₆.

Classifications:

International (IPC 8-9): B01J4/02 B28C9/02 (Advanced/Invention)

International (IPC 1-7): B01J4/02 B28C9/02

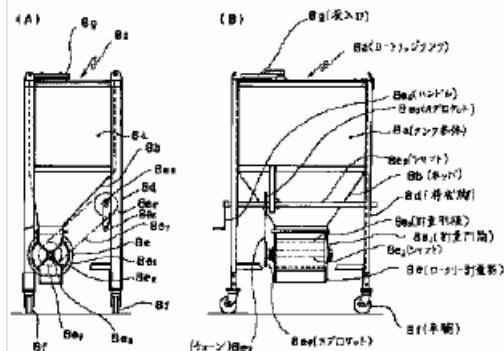
CPC: B01J8/002

European: B01J8/00F2

JP F-Term: 4G056 4G056/AA07 4G056/CA01 4G056/CB02 4G056/CB13 4G056/CD31 4G056/CD32 4G056/DA01 4G056/DA02 4G068 4G068/AA02 4G068/AB22 4G068/AC16 4G068/AD01 4G068/AE01 4G068/AE03

JP F-Index: B01J4/02/D B28C9/02

PatBase - JP5162119_A2



Family:

Publication number	Publication date	Application number	Application date
JP5162119 A2	19930629	JP19910330414	19911213

Priority:

JP19910330414 19911213

Probable Assignee:

SATO NOBUKO

Assignee(s): (std):

SATO NOBUKO

Inventor(s): (std):

SATO NOBUKO

23) Family number: 6404545 (JP58216502A)

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Title: DISTRIBUTION METHOD DISTRIBUTING FLUID AND BAGGING PLANT

Classifications:

International (IPC 8-9): B65B1/04 B65G65/40

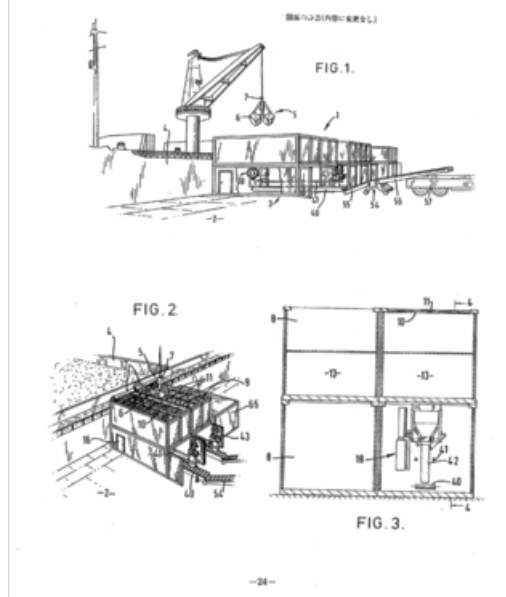
G01G19/22 (Advanced/Invention);

B65B1/04 B65G65/00 G01G19/00 (Core/Invention)

International (IPC 1-7): B65B1/04 B65G65/40 G01G19/22

JP F-Term: 2F048 3E018 3E018/AA04 3E018/AB01 3E018/AB03 3E018/BA06 3E018/BA08 3E018/BB02 3E018/DA02 3E018/DA04 3E018/EA01 3E018/EA04 3E118 3E118/AA07 3E118/AB01 3E118/BA07 3E118/BA09 3E118/BA10 3E118/BB02 3E118/BB03 3E118/BB06 3E118/BB08 3E118/BB30 3E118/DA02 3E118/DA04 3E118/EA07 3E118/FA04 3E118/FA06 3F075 3F075/AA08 3F075/AA09 3F075/BA01 3F075/BA02 3F075/BA09 3F075/BA10 3F075/BB03 3F075/CA01 3F075/CA02 3F075/CA06 3F075/CA09 3F075/CB01 3F075/CB05 3F075/CB13 3F075/CD01 3F075/CD10 3F075/CD12 3F075/CD13

JP F-Index: B65B1/04 B65G65/40/B G01G19/22

**Family:**

Publication number	Publication date	Application number	Application date
JP58216502 A2	19831216	JP19820099938	19820610

Priority:

JP19820099938 19820610

Probable Assignee: ENUEETEII SHITSUPINGU BATSUGIN**Assignee(s):** (std): ENUEETEII SHITSUPINGU BATSUGIN**Assignee(s):** ENUEETEII SHITSUPINGU BATSUGINKU SERVICES LTD**Inventor(s):** (std): GARAADASU REONADASU NEEDAPERU ; JIYAN BAN DAA BARU**24) Family number: 51419587** (RU77845U)

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Title: COMPLEX for packing into bags of "Briquettes" (Machine translation)**Abstract:** Source: RU77845U

Machine translation: (Claim 1) 1. System for packaging products in a package of the "cake", consisting of filling and packaging machines and vertical assembly formation of a package, wherein between the vertical part of the machine, where a product-filled bags with a flat bottom and a horizontal outlet, where the product and tapped forming the top of the package handling conveyor is installed with a pocket piece of issue-oriented packages.

Classifications:**International (IPC 8-9):** B65B9/06 (Advanced/Invention)**Family:**

Publication number	Publication date	Application number	Application date
RU77845 U1	20081110	RU20080114419U	20080404

Priority:

RU20080114419U 20080404

25) Family number: 58393618 (US2015027083A)

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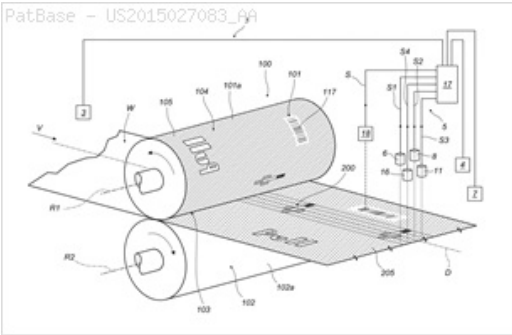
Title: EMBOSsing DEVICE AND PACKAGING MACHINE COMPRISING THE DEVICE

Abstract: An embossing device comprises a first embossing roller and a second embossing roller forming a passage for a web of wrapping material to be embossed, which has a main line of extension and a direction of feed; the first embossing roller comprises on its outer surface toothings to make an imprint on the web; a first toothing having a first impression to imprint on said web a first segment of a reference for identifying a section of the web and a second toothing to imprint a decorative pattern on the web; the second toothing comprises a zone without teeth for defining on the web a second, unembossed segment of the reference; the first toothing and the zone without teeth are offset from each other along a directrix of the first roller.

Classifications:**International (IPC 8-9):** B31F1/07 B65B19/22 B65B19/28 B65B57/02

B65B61/02 B65B61/06 (Advanced/Invention)

CPC: B65B19/28 B65B57/02 B65B61/02 B65B61/06 B31F1/07



Family:

Publication number	Publication date	Application number	Application date
EP2829393 A1	20150128	EP20140178021	20140722
ITBO20130392 A1	20150124	IT2013BO00392	20130723
RU2014128909 A	20160210	RU20140128909	20140715
RU2652578 C2	20180426	RU20140128909	20140715
US2015027083 AA	20150129	US20140336121	20140721
US9751648 BB	20170905	US20140336121	20140721

Priority:

IT2013BO00392 20130723

Probable Assignee: GD SPA

Assignee(s): (std): GD SPA

Inventor(s): (std): NEGRINI STEFANO ; GHINI MARCO ; POLLONI ROBERTO

Agent(s): BIANCIARDI EZIO; NEVINPAT; SHUTTLEWORTH AND INGERSOLL PLC; TIMOTHY

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

26) Family number: 55639620 (CN203682478U) © PatBase

Title: AUTOMATIC CONVEYING DEVICE OF DENITRATION CATALYST EXTRUDING BLANK

Abstract: The utility model provides an automatic conveying device of a denitration catalyst extruding blank. The automatic conveying device comprises a cutter, an accelerating belt conveyor, a film-sticking machine, a clamping shifting machine, a cover buckling machine, a tray stacking machine, a belt conveyor and a PLC (Programmable Logic Controller), wherein the cutter, the film-sticking machine and the clamping shifting machine are sequentially connected in series through the accelerating belt conveyor; the clamping shifting machine, the cover buckling machine and the tray stacking machine are sequentially connected in series through the belt conveyor; the cutter, the film-sticking machine, the clamping shifting machine, the accelerating belt conveyor, the cover buckling machine, the tray stacking machine and the belt conveyor are respectively connected with the PLC. The denitration catalyst extruding blank is controlled by the PLC and conveyed by the accelerating belt conveyor to be sequentially cut, stuck with a film, clamped and shifted by the cutter, the film-sticking machine and the clamping shifting machine; the clamped and shifted extruded blank is controlled to be conveyed by the belt conveyor to be sequentially covered and stacked with trays by the cover buckling machine and the tray stacking machine, so that the denitration catalyst extruding blank is continuously and automatically produced and conveyed.

Classifications:

International (IPC 8-9): B26D1/547 B65B33/02 B65B7/28 B65G37/00 B65G43/08 B65G47/52 B65G47/90 (Advanced/Invention)

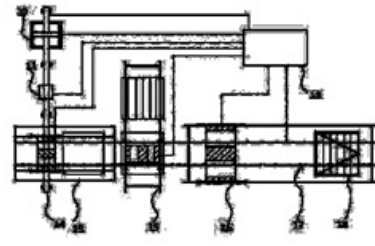


图 1



图 2

12

Family:

Publication number	Publication date	Application number	Application date
CN103523486 A	20140122	CN201310497019	20131021
CN103523486 B	20150715	CN201310497019	20131021
CN203682478 U	20140702	CN201320649389U	20131021

Priority:

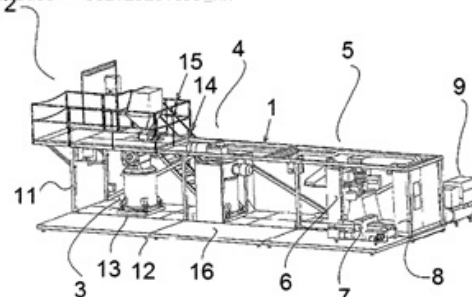
CN201310497019 20131021 CN201320649389U 20131021

Probable Assignee: ENERXY MA ANSHAN ATMOSPHERE TREAT TECHNOLOGY CO LTD**Assignee(s):** (std): ENERXY MA ANSHAN ATMOSPHERE TREAT TECHNOLOGY CO LTD ; ENERXY MAANSHAN ATMOSPHERIC CONTROL TECHNOLOGY CO LTD**Assignee(s):** ENCOM TECHNOLOGY CO LTD MAANSHAN ATMOSPHERIC ADMINISTRATION ; ENERXY MA ANSHAN ATMOSPHERE TREATMENT TECHNOLOGY CO ; ENERXY MAANSHAN ATMOSPHERIC CONTROL TECHNOLOGY CO**Inventor(s):** (std): ZHOU PEIXUAN ; WANG LIYA**27) Family number: 70604635 (US2018280899A)**

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Title: METHOD, COMPUTER PROGRAM, AND MULTIFUNCTIONAL, MODULAR AND MOBILE MIXING AND PACKAGING PLANT**Abstract:** Modular mobile mixing and packaging plant for powdery or granular products, comprising a carrying structure having dimensions suitable for being introduced in a standard shipping container and internally housing a receiving and manual weighing module, a material loading module, a mixing module, and a packaging module, wherein the mixing module comprises means for cooling and/or drying the mixture contained in said module.**Classifications:****International (IPC 8-9):** A23N17/00 B01F3/12 B01F3/22 B65B1/00 B65B1/04 B65B3/12 B65B3/28 B65B3/30 B65B37/18 B65B61/00 B65B63/00 B65B65/00 (Advanced/Invention)**CPC:** B65B65/00 B65B1/00 B01F3/1207 B01F3/2215 B01F3/223 B65B65/003 B65B3/30 B65B3/28 B65B3/12 A23N17/00 B65B61/00 B65B37/18 B65B63/00

PatBase - US2018280899_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN108688877 A	20181023	CN201810272541	20180329
CO20180003017 A1	20180612	CO20180003017	20180321
EP3381821 A1	20181003	EP20180382176	20180316
ES2684630 AA	20181003	ES20170000326	20170330

IN201824010224 A	20181019	IN201824010224	20180320
US2018280899 AA	20181004	US20180939597	20180329

Priority:

ES20170000326 20170330

Probable Assignee: INVERSIONES HIKI6 S L

Assignee(s): (std): INVERSIONES HIKI6 S L

Assignee(s): INVERSIONES HIKI6 SL

Inventor(s): (std): KRISTENSEN HENRIK STAMM ; STAMM KRISTENSEN HENRIK

Inventor(s): HENRIK STAMM KRISTENSEN

Agent(s): JESUS MARIA MENDEZ BERMUDEZ; TEMINO CENICEROS IGNACIO; TEMINO IGNACIO

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

28) Family number: 4803638 (US5056571A)

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Title: Container fill system

Abstract: A container fill system for filling flexible bulk container shaving lift straps with a product having a support frame with first and second ends, a scale connected to the first end of the support frame for determining the weight of the flexible bulk containers, a fill control device connected to the second end of the support frame for controlling the flow rate of the product into the flexible bulk container, a rotatable holder connected to the support frame and to a fill spout rotatable along a vertical axis and having fingers for securing the lift straps to the rotatable holder for supporting the flexible bulk containers and an electronic operator panel with an associated microprocessor for controlling the operation of the container fill system. The container fill system of the present invention allows for one man operation and filling of the flexible bulk containers.

Classifications:

International (IPC 8-9): B65B1/04 B65B39/04 B65B39/06 B65B69/00 (Advanced/Invention);

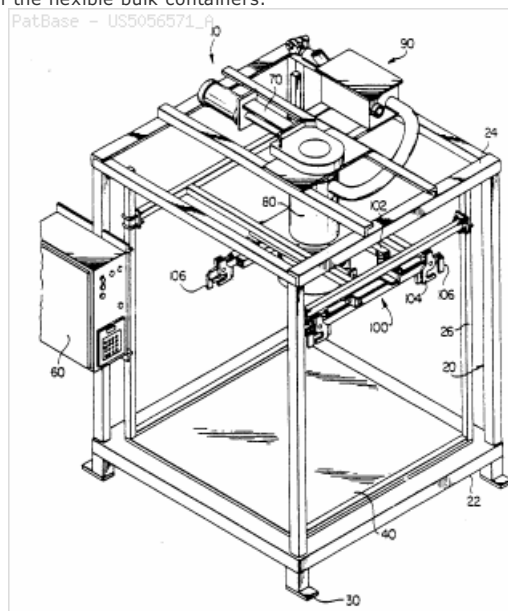
B65B1/04 B65B39/00 B65B69/00 (Core/Invention)

International (IPC 1-7): B65B1/04 B65B3/16

CPC: B65B1/04 B65B39/04 B65B39/06 B65B69/0091

European: B65B1/04 B65B39/04 B65B39/06 B65B69/00F2

US: 141/10 141/114 141/314 141/83 141/93



Family:

Publication number	Publication date	Application number	Application date
US5056571 A	19911015	US19910662020	19910228

Priority:

US19890364315 19890612 US19910662020 19910228

Probable Assignee: PREMIER TECH INDUSTRIAL INC

Assignee(s): (std): SUPER SACK MFG COMPA ; SUPER SACK MANUFACTURING COMPA

Assignee(s): PREMIERTECH INDUSTRIEL ; SUPER SACK MFG ; SUPER SACK MANUFACTURING COMPANY ; BANK ONE TEXAS NA ; PREMIER TECH IND ; PREMIER TECH INDUSTRIAL INC ; PREMIER TECH INDUSTRIEL ; PREMIERTECH IND

Inventor(s): (std): DERBY NORWIN C

29) Family number: 23079659 (FR1270098A)

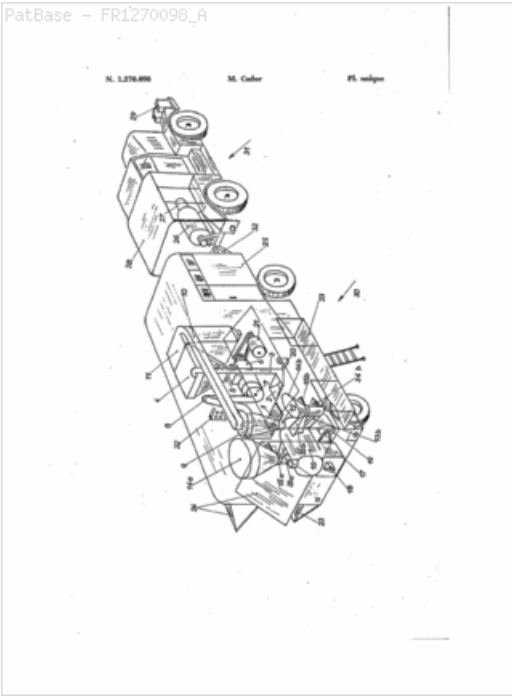
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Title: USINE MOBILE AUTONOME DE PREPARATION D'ALIMENTS POUR BETAIL PLANT MOBILE SELF-PREPARATION OF FEEDINGSTUFFS (Machine translation)

Abstract: Source: FR1270098A [FR] (Claim 1) 1. Un tracteur routier forme un groupe electrogene en portant un alternateur que l'on peut embrayer sur la prise de force de son moteur, et d'une puissance adaptee a la sienne;

Machine translation: (Claim 1) 1. A tractor as a generator to an alternator bearing which can engage the PTO of the engine, and power has adapted his own;

Classifications:
International (IPC 8-9): A23N17/00 (Advanced/Invention);
A23N17/00 (Core/Invention)
International (IPC 1-7): A01K5/00
CPC: A23N17/005
European: A23N17/00D



Family:

Publication number	Publication date	Application number	Application date
FR1270098 A	19610825	FR19600832906	19600713

Priority:

FR19600832906 19600713

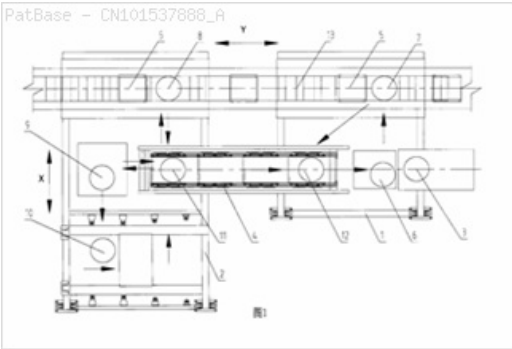
Inventor(s): (std): CADOR PAUL LEON RENE

30) Family number: 43827671 (CN101537888A) © PatBase

Title: Multi-component small powder automatic packaging palletizing method

Abstract: The invention relates to a multi-component small powder automatic packaging palletizing method, belonging to a small powder scale automatic weighing batching apparatus. The method changes the overall processes of putting plastic bag into a charging basket, taking out pockets, closing bag mouths, palletizing the pockets into a storing vehicle before mixing former rubber, during matching various small powders according to the formulation into the full mechanical automation. The method is implemented by the following devices: a bag machine 14, a plastic bag clamping unit 4, a special pocket 5, a clamping unit actuating device 20, a transmitting bag and opening bag mouth device 15, a putting bag device, a taking bag device, a heat seal capper 18, a stack device, a pocket positioning device 21, an empty pocket positioning device 33, a pneumatic control system, an electronic control system and an PLC program control system.

Classifications:
International (IPC 8-9): B65B1/32 B65B43/00 B65B43/46 B65B51/10
B65B61/28 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN101537888 A	20090923	CN200910077883	20090202
CN101537888 B	20110105	CN200910077883	20090202

Priority:

CN200910077883 20090202

Probable Assignee: BEIJING UNITED FOUND TECHNOLOG

Assignee(s): (std): BEIJING UNITED FOUND TECHNOLOG ; BEIJING UNITED FOUND TECHNOLOGY CO LTD

Assignee(s): BEIJING UNITED FOUND TECHNOLOGY CO

Inventor(s): (std): MENTIONED THE INVENTOR HAS WAIVED THE RIGHT TO BE

Inventor(s): THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED ; INVENTOR HAS WAIVED RIGHT TO BE MENTIONED

31) Family number: 43225689 (US2010226200A)

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Title: MIXING MACHINE

Abstract: A mixing machine 1 includes a mixing head 3 displayed with one or several elements 12 for connecting the same to a container 5 containing a mix to form a closed mixing receptacle containing the mix. The mixing head 3 is mounted pivotably facing a frame 2 in such a way that the mixing receptacle formed from mixing head 3 and container 5 is pivotable to execute the mixing process. The mixing machine 1 further includes a device for producing a mix stream and at least one rotary-driven mixing tool interacting in the mix stream. The mix-stream-producing device is designed to produce a low-energy primary mix-stream as a feed stream for supplying the mix contained in the mixing receptacle to the at least one mixing tool W2 disposed in the mixing head 3 interacting in the primary mix-stream produced by the mix-stream-producing device. The at least one mixing tool W2 is provided to produce a secondary primary mix-stream containing only a fraction of the mix contained in the mixing receptacle as a cross-stream to the primary mix-stream.

Classifications:

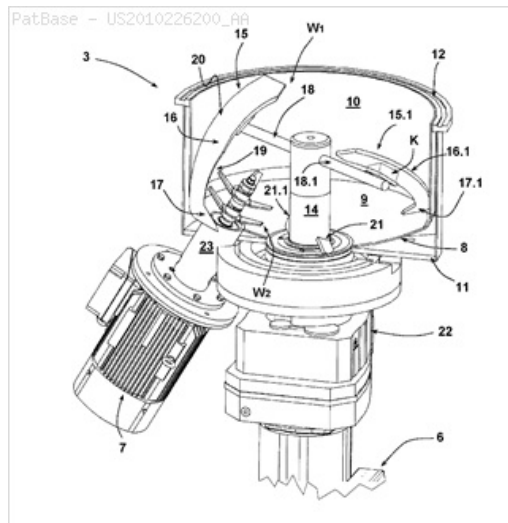
International (IPC 8-9): B01F13/00 B01F13/10 B01F3/18 B01F7/00 B01F7/16 B01F7/18 B01F9/08 B01J2/00 (Advanced/Invention); B01F13/00 B01F7/00 B01F7/16 (Core/Invention)

International (IPC 1-7): B01J2/00

CPC: B01F3/18 B01F7/00275 B01F7/1605 B01F7/18 B01F13/0098 B01F13/105 B01F2215/005

European: B01F13/00T B01F13/10D4 B01F3/18 B01F7/00B16B3 B01F7/16C B01F7/18 L01F215/00A60

US: 366/200 366/245 366/281 366/281P



Family:

Publication number	Publication date	Application number	Application date
CN101822955 A	20100908	CN201010122207	20100226
CN101822955 B	20141029	CN201010122207	20100226
DE202009001937 U1	20090430	DE200920001937U	20090304
DE502010013899 D1	20170824	DE201050013899T	20100222
EP2226117 A2	20100908	EP20100154240	20100222
EP2226117 A3	20111123	EP20100154240	20100222
EP2460581 A1	20120606	EP20120157516	20100222
EP2460581 B1	20170719	EP20120157516	20100222
ES2642667 T3	20171117	ES20120157516T	20100222
IN00657MU2010 A	20110204	IN2010MU00657	20100223
PT2460581 T	20171019	PT20120157516T	20100222
TR201714888 T4	20171221	TR20170014888T	20100222
US2010226200 AA	20100909	US20100717166	20100304
US8678639 BB	20140325	US20100717166	20100304

Priority:

DE200920001937U 20090304 EP20100154240 20100222 EP20120157516 20100222

Probable Assignee: DR HERFELD GMBH AND CO KG

Assignee(s): (std): DR HERFELD GMBH AND CO KG ; HERFELD GMBH AND CO DR KG ; HERFELD GMBH AND CO KG DR ; MIXACO DR HERFELD GMBH AND CO KG ; TOELLE ULRICH ; RUEBERG WOLFGANG

Assignee(s): HERFELD GMBH AND CO KG ; DR HERFELD GMBH CO KG

Inventor(s): (std): TOELLE ULRICH ; RUEBERG WOLFGANG ; ULRICH TOELLE ; WOLFGANG RUEBERG

Inventor(s): ULRICH TOLLE

Agent(s): HAVERKAMP JENS PROF DIPL GEOL DRRERNAT; HAVERKAMP JENS; ELZABURU SLP ELZABURU SLP; AYLIN SENER; OPPEDAHN PATENT LAW FIRM LLC (P AND A); MARGARET; OPPEDAHN PATENT LAW FIRM LLC

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

32) Family number: 54508708 (US2013203524A)

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Title: GOLF BALL

Abstract: An object of the present is to provide a golf ball having an increased spin rate on approach shots. Another object of the

present invention is to provide a golf ball having a goof shot feeling on approach shots. The present invention provides a golf ball comprising a golf ball body and a paint film formed on a surface of the golf ball body, and having a coefficient of friction calculated using a contact force tester of 0.35 or more and 0.60 or less.

Classifications:

International (IPC 8-9): A63B37/00 A63B37/02 A63B37/12 A63B37/14 A63B45/00 A63B47/00 C08G18/12 C08G18/66

C09D175/04 (Advanced/Invention);

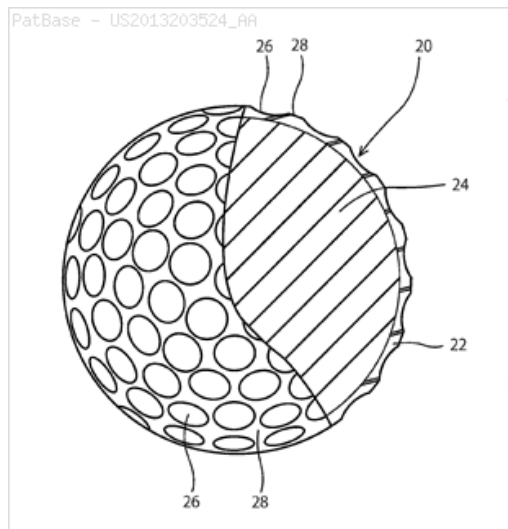
A63B53/04 (Advanced/Non-invention)

CPC: A63B37/0023 A63B37/0003 A63B37/0018 A63B37/0021 A63B37/0022 A63B37/0031 A63B37/0077 A63B37/0096 A63B45/00 A63B47/008 A63B2053/0445 A63B2225/02 C08G18/12 C08G18/6677 C09D175/04 C09D175/08 C08G18/721

US: 1/1 473/378

JP F-Term: 2C074

JP F-Index: A63B37/00/212 A63B37/00/214 A63B37/00/626 A63B37/14



Family:

Publication number	Publication date	Application number	Application date
CN103239837 A	20130814	CN201310041769	20130201
CN103239837 B	20150909	CN201310041769	20130201
DE602013018475 D1	20170427	DE201360018475T	20130130
EP2623165 A1	20130807	EP20130153252	20130130
EP2623165 B1	20170315	EP20130153252	20130130
JP2013176530 A2	20130909	JP20120136294	20120615
JP6057554 B2	20170111	JP20120136294	20120615
KR101518546 B1	20150507	KR20130009875	20130129
KR20130090340 A	20130813	KR20130009875	20130129
US2013203524 AA	20130808	US20130756725	20130201
US9168423 BB	20151027	US20130756725	20130201

Priority:

JP20120021886 20120203 JP20120136294 20120615 EP20130153252 20130130

Probable Assignee: SUMITOMO RUBBER IND LTD

Assignee(s): (std): DUNLOP SPORTS CO LTD

Assignee(s): SUMITOMO RUBBER IND LTD ; SUMITOMO RUBBER IND LTD KOBE SHI ; DUNLOP SPORTS CO

Inventor(s): (std): TARAO TOSHIYUKI ; HORIUCHI KUNIYASU

Inventor(s): TARAO TOSHIYUKI KOBE SHI ; HORIUCHI KUNIYASU KOBE SHI

Agent(s): MANITZ FINSTERWALD PATENTANWALTE PARTMBB; MANITZ FINSTERWALD AND PARTNER GBR; BIRCH STEWART KOLASCH AND BIRCH LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

33) Family number: 57496712 (CN203958634U)

PatBase

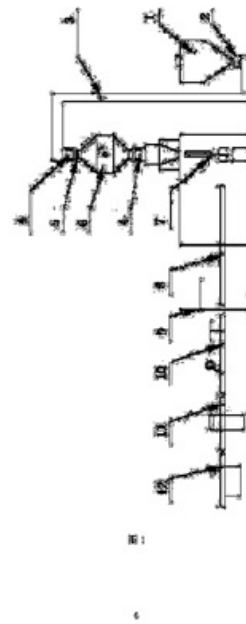
Title: PHENOLIC MOULDING PLASTIC POWDER MATERIAL CONVEYING AND AUTOMATIC WEIGHING AND PACKING DEVICE

Abstract: The utility model discloses a phenolic moulding plastic powder material conveying and automatic weighing and packing device. The phenolic moulding plastic powder material conveying and automatic weighing and packing device is characterized by being composed of a full-automatic mechanical conveying device, an even mixing silo automatic start-stop device, a full-automatic weighing and feeding device, a high-precision weighing and full-automatic packing device and an automatic metal detecting and weight reinspection device. The two ends of the full-automatic mechanical conveying device are connected with the even mixing silo automatic start-stop device and the full-automatic weighing and feeding device respectively, one end of the high-precision weighing and full-automatic packing device is connected with the even mixing silo automatic start-stop device, and the other end of the high-precision weighing and full-automatic packing device is connected with the automatic metal detecting and weight reinspection device. The phenolic moulding plastic powder material conveying and automatic weighing and packing device has the advantages that the production intensity of staff is reduced, meanwhile, production efficiency and production capacity are improved, the production environment is improved, and potential occupational hazard and hidden danger are reduced.

Classifications:

International (IPC 8-9): B65B1/08 B65B1/32

B65B1/46 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
CN104071364 A	20141001	CN201410336817	20140716
CN203958634 U	20141126	CN201420390999U	20140716

Priority:

CN201410336817 20140716 CN201420390999U 20140716

Probable Assignee: WUXI CHUANGDA ELECTRONIC CO LTD

Assignee(s): (std): WUXI CHUANGDA ELECTRONIC CO LTD

Assignee(s): CHONG ELECTRONICS CO LTD WUXI ; WUXI CHUANGDA ELECTRONIC CO

Inventor(s): (std): LIU HONGLIANG

34) Family number: 64664721 (CN206142472U)

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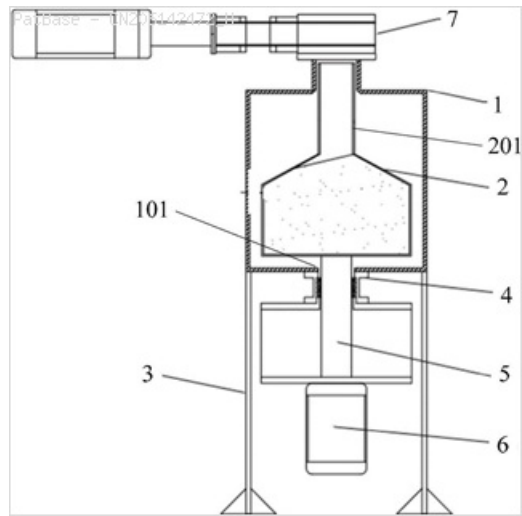
Title: METAL POWDER VACUUM STORAGE TRANSFER DEVICE

Abstract: The utility model provides a metal powder vacuum storage transfer device, which comprises an outer casing, the shell body lower part is equipped with the support, shell body exit department are equipped with the vacuum push -pull valve, the inlayer storage tank has been put in the shell body inner chamber just rather than forming double -deck storage tank structure, be equipped with storage tank drive arrangement on the support, storage tank drive arrangement passes shell body bottom plate and inlayer storage tank bottom and is connected and drives the inlayer storage tank and reciprocate, the inlayer storage tank makes the discharging pipe that advances on its upper portion pass the sealing flange structure on the push -pull valve of vacuum and manage or treat with the pollination of treating out powder vacuum chamber that into whitewashed vacuum chamber's the tube cell that advances registrates formation endotheca tubular construction when rising. The utility model discloses the contact atmosphere leads to the fact the oxidation stain in can avoiding metal powder the storage process, guarantees the quality of metal powder material to the endotheca tubular construction can avoid this device to the pollution of storage tank vacuum seal face when treating out powder vacuum chamber or treating into the circulation of whitewashed vacuum chamber, guarantee repetition operation process in the vacuum seal face do not become invalid.

Classifications:

International (IPC 8-9): B65G65/40 (Advanced/Invention)

CPC: B65G65/40



Family:

Publication number	Publication date	Application number	Application date
CN106315254 A	20170111	CN201610902428	20161018
CN106315254 B	20180907	CN201610902428	20161018
CN206142472 U	20170503	CN201621131768U	20161018

Priority:

CN201610902428 20161018 CN201621131768U 20161018

Probable Assignee: BAOJI ZHENGWEI METAL SCIENCE AND TECH CO LTD

Assignee(s): (std): BAOJI ZHENGWEI METAL SCIENCE AND TECH CO LTD

Assignee(s): BAOJI ZHENGWEI METAL SCIENCE AND TECHNOLOGY CO ; BAOJI IS MICRO METAL TECHNOLOGY LTD

Inventor(s): (std): QI MINJIE

35) Family number: 36063732 (JP2007191163A)

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Title: FILLING APPARATUS AND FILLING METHOD

Abstract: PROBLEM TO BE SOLVED: To enable to shorten filling time and to improve productivity in a filling apparatus for filling an object to be filled, such as flaked dried bonito which has a thin thickness and a low bulk density. SOLUTION: The flaked dried bonito 47 quantitatively measured and fed into a hopper 15 is sucked by air sucking to spread it in a casing 5. Then, moving a movable block 11 enables compression of the dried bonito into a cylindrical shape between the movable block 11 and a fixed block 9, and thereafter, the dried bonito is extruded by a piston 35 to be packed into a bag set in a discharging pipe 39.

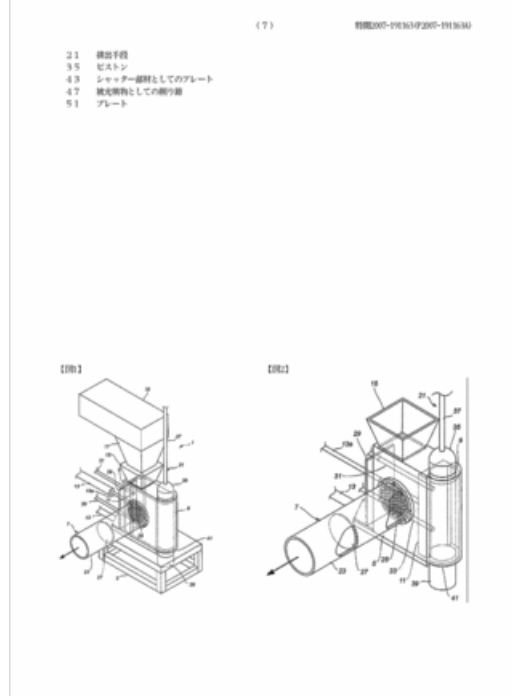
Classifications:

International (IPC 8-9): B65B1/04 (Advanced/Invention); B65B1/04 (Core/Invention)

JP F-Term: 3E118 3E118/AA07 3E118/AB05 3E118/AB08 3E118/BB02 3E118/BB16 3E118/CA20 3E118/EA05 3E118/FA01

JP F-Index: B65B1/04

PatBase - JP2007191163_A2



Family:

Publication number	Publication date	Application number	Application date
JP2007191163 A2	20070802	JP20060008926	20060117

Priority:

JP20060008926 20060117

Probable Assignee:

YUWA SANGYO KK

Assignee(s): (std):

YUWA SANGYO KK

Inventor(s): (std):

SUZUKI YASUHIKO