

20 Documents

Publication numbers	Title	Current assignees
LU--69491 A1	Packaging method and apparatus	AUTOMATED PACKAGING SYSTEMS
BR102014031961 A1	Device for sealing and cutting in a packaging apparatus, a packaging process and a packaging apparatus	SEALED AIR
EP1245493 A1	Method and installation for packaging liquids and/or lump products in self-standing bags	SIG COMBIBLOC INT
CA3011482 A1	Seal flattener	AUTOMATED PACKAGING SYSTEMS
CN104129514 A	Processing method of residual object to be packed in packing machine and packing machine	GENERAL PACKER
US4586318 A	Bag forming and bagger apparatus and method	ALL PACKAGING MACHINERY
WO201265743 A2	Apparatus and method for placing valve bags	HAYER & BOECKER
CA2985049 A1	Packaging machine	AUTOMATED PACKAGING SYSTEMS
WO200829250 A2	METHODS FOR THE JOINT WRAPPING OF BAGS WITH THEIR CONTENTS, and APPLYING MACHINE	CARMELO CALVANO FERRUCCHIO
CA2034049 A1	Method and device for making, filling and closing bags .	WINDMOELLER & HOELSCHER
JP2012232780 A	Packing processing method for bagging/packing machine and bagging/packing machine	TOYO JIDOKI
US4899520 A	Packaging apparatus and method	AUTOMATED PACKAGING SYSTEMS
CA1315247 C	Packaging machine & method	AUTOMATED PACKAGING SYSTEMS
CA3008861 A1	On-demand inflatable packaging	AUTOMATED PACKAGING SYSTEMS
FR1579412 A	Package of imbricated bags	WR GRACE
US20180354668 A1	Tear open bag	AUTOMATED PACKAGING SYSTEMS
EP-413431 A2	Packaging machine.	AUTOMATED PACKAGING SYSTEMS
CN103010512 A	Automatic packing device for potted flower cap bags and system equipment thereof	BEIJING KINGPENG INTERNATIONAL HI TECHNOLOGY
US20180347754 A1	Bagger safety system	AUTOMATED PACKAGING SYSTEMS
EP1388336 A1	Bottle storage apparatus	EXPRESS SCRIPTS

Publication numbers	Title	Current assignees
		STRATEGIC DEVELOPMENT

A packaging system wherein a web of interconnected heat-sealable bags are successively fed to a loading station where the bags are opened by an improved air flow system and loaded. An improved sealing and detaching assembly grips a loaded bag and isolates a region of the bag where a heat seal is to be formed from external forces thereby (1) permitting the formation of a heat seal in bag portions which are relaxed and, therefore, not subject to tearing or distorting, and (2) permitting the assembly to pivot relative to the web to tear off a loaded bag at the same time a heat seal is being formed on the bag. The assembly includes an improved resilient closure bar which, during a forward stroke of travel (1) engages one face of a loaded bag, (2) closes the bag, (3) clamps the opposite bag face against a pair of spaced gripper bars which isolate a region of the bag for heat sealing, and (4) brings the isolated region into contact with a heater bar to effect a heat seal. The gripper bars are spring mounted and biased to a position forward of the heater bar to effectively isolate a region of the bag for sealing prior to seal formation.

Inventors

LERNER BERNARD

Latest standardized assignees - inventors removed

AUTOMATED PACKAGING SYSTEMS

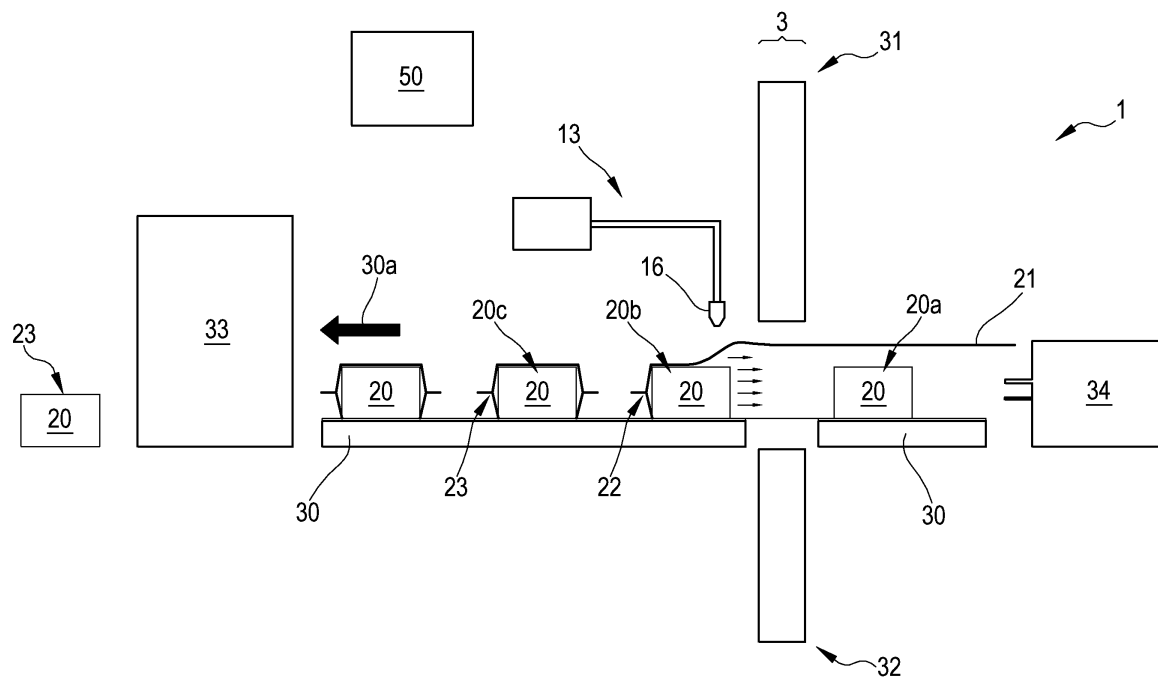
Family 2/20 - FAMPAT - ©Questel

Title

(EP2886268)

Device for **sealing** and cutting in a **packaging** apparatus, a **packaging** process and a **packaging** apparatus

Images



Publication data including kind & date

BR102014031961	A1	2015-01-06	BR102014031961
EP2886268	A1	2015-06-24	EP2886268
US20150175288	A1	2015-06-25	US20150175288
AU2014268746	A1	2015-07-09	AU2014268746
BR102014031961	A2	2015-10-06	BR102014031961
EP2886268	B1	2017-02-15	EP2886268
NZ703121	A	2017-10-27	NZ-703121
AU2014268746	B2	2018-12-13	AU2014268746



Abstract

(EP2886268)

A device (3) for **sealing** and cutting a film (21) in a **packaging** apparatus (1) is provided. Further, a **packaging** apparatus (1) comprising the **sealing** and cutting device (3) and a process for **sealing** and cutting using the device are provided. The device (3) comprises first (31) and second (31) members, one or both of which are movable with respect to the other or one another. One of the members comprises an elongated blade (315) and one of the members comprises a cutting means (313a), wherein the cutting means (313a) are positionable in a plurality of positions with respect to the respective member. The process comprises the steps of creating a first **seal** on a tubular film (21), thereby creating a semi-**sealed package** (22), creating a second **seal** (218) on the semi-**sealed package** (22), thereby creating a **sealed package** (23), and creating a substantially transversal cut in the tubular film (21), thereby separating the (semi) **sealed package** (22, 23) from a subsequent portion of the tubular film (21). The process further comprises the step of creating an incision (214) in a section of the first or second **seal** (218), the incision defining a pre-determined breaking zone (216) in the tubular film (21) of the **sealed package** (23).

Inventors

ALQUATI MASSIMO

Latest standardized assignees - inventors removed**SEALED** AIR

Family 3/20 - FAMPAT - ©Questel

Title

(EP1245493)

Method and installation for **packaging** liquids and/or lump products in self-standing **bags****Images**

Fig. 1

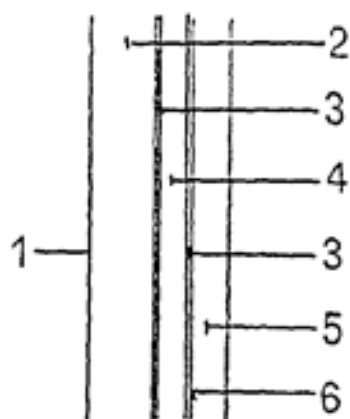
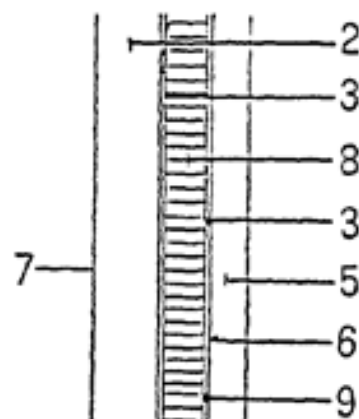


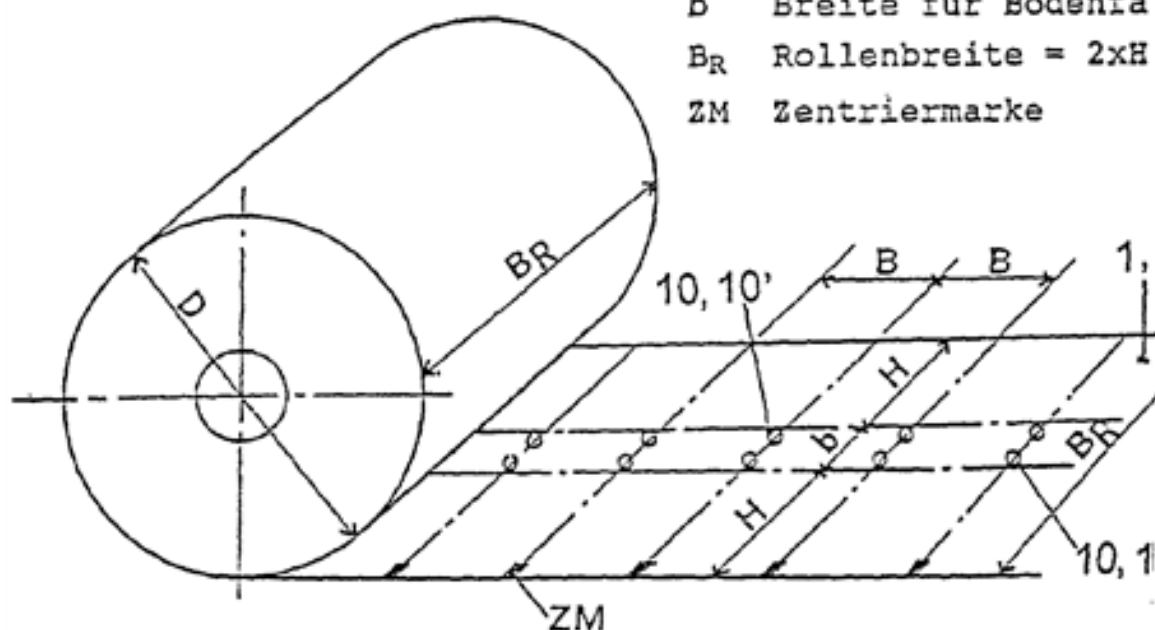
Fig. 2



2	Innenlage	60 g/m ² NDPE
3	Kaschiermittel	
4	Barrierematerial	0,008 mm Alu.Folie
5	Aussenlage	12-14 g/m ² Polyester
6	4/5-Farbendruck	
8	Barrierematerial	35-40 g/m ² EVOH
9	Lichtschuttschicht	

Fig. 3

B	Standbeutel-Breite
H	Standbeutel-Höhe
b	Breite für Bodenfa
B _R	Rollenbreite = 2xH
ZM	Zentriermarke



Publication data including kind & date

EP1245493	A1	2002-10-02	EP1245493
CH695610	A5	2006-07-14	CH-695610

**Abstract**

(EP1245493)

The upright **bag** is made of flexible **packaging** material (1) from a roll. The **packaging** material is conveyed to an enclosed unit containing a vacuum and in which the upright **bags** are filled and closed. The closed upright **bags** are removed from the unit by a sluice arrangement. The unit has housing parts and a labyrinth with **sealed** entry slit and exit-gap.

Inventors

EGLI ALWIN

Latest standardized assignees - inventors removed

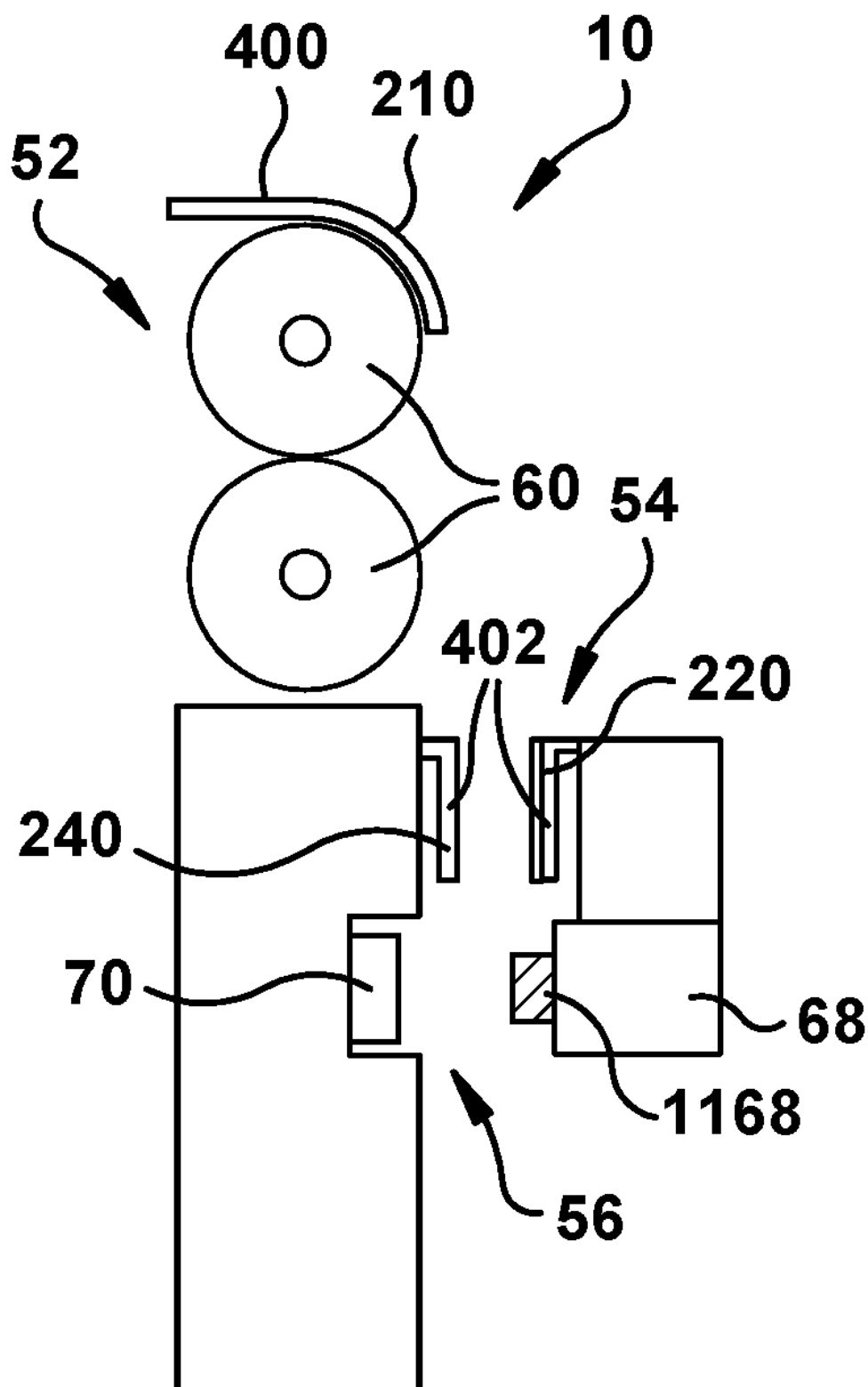
SIG COMBIBLOC INT

Family 4/20 - FAMPAT - ©Questel

Title

(EP3402721)

Seal flattener**Images**



Publication data including kind & date

CA3011482	A1	2017-07-20	CA3011482
US20170203867	A1	2017-07-20	US20170203867
WO2017124091	A1	2017-07-20	WO2017124091
BR112018014413	A1	2018-07-24	BR112018014413
CO2018007954	A2	2018-08-10	CO2018007954
AU2017207019	A1	2018-08-16	AU2017207019
IN201847029626	A	2018-08-17	IN201847029626



MX2018008745	A	2018-09-12	MX2018008745				
KR20180101526	A	2018-09-12	KR20180101526				
EP3402721	A1	2018-11-21	EP3402721				
BR112018014413	A2	2018-12-11	BR112018014413				
JP2019501842	A	2019-01-24	JP2019501842				

Abstract

(EP3402721)

An exemplary apparatus for making **packages** from a web of interconnected **bags** includes an indexing mechanism, an opening arrangement, a pair of engagement devices, and a **sealing** arrangement. The indexing mechanism is configured to move the web of interconnected **bags** along a path of travel. The opening arrangement is configured to **open** a **bag** such that an opening is formed in the **bag** and a product can be placed into the opening of the **bag**. The pair of engagement devices are configured to engage the **bag** and **close** the opening of the **bag**. Each engagement device includes a base member, a first link, a second link, a sliding pivot member, and a finger. The first link is pivotably connected to the base member, and the second link is pivotably connected to the first link. The sliding pivot member is configured to allow the second link to slide through the sliding pivot member and pivot in relation to the base member.

Inventors

SHOOK DONALD P

SUSTER JARED A

Latest standardized assignees - inventors removed

AUTOMATED **PACKAGING** SYSTEMS

Family 5/20 - FAMPAT - ©Questel

Title

(JP2014218254)

Processing method of residual object to be **packed** in **packing** machine and **packing** machine

Images

means detects a supply shortage of the object to be **packed** in the filling means or when a manual switching is performed, a determination is made, in a residual quantity discharge mode, as to whether or not the object to be **packed** into a **packing bag** reaches a target weight via measuring means. While the object to be **packed** reaches the target weight, the object to be **packed** is **packed** into the next **packing bag**, and the **packing bag** is **sealed** and discharged as a non-defective product. When the object to be **packed** does not reach the target weight, the object to be **packed** is **packed** into the **packing bag**, and the **packing bag** is **sealed** while being still in a **packing** quantity shortage state, and discharged as a defective product.

Inventors

KATO KAZUKI

KUNIYOSHI NAOYUKI

Latest standardized assignees - inventors removed

GENERAL **PACKER**

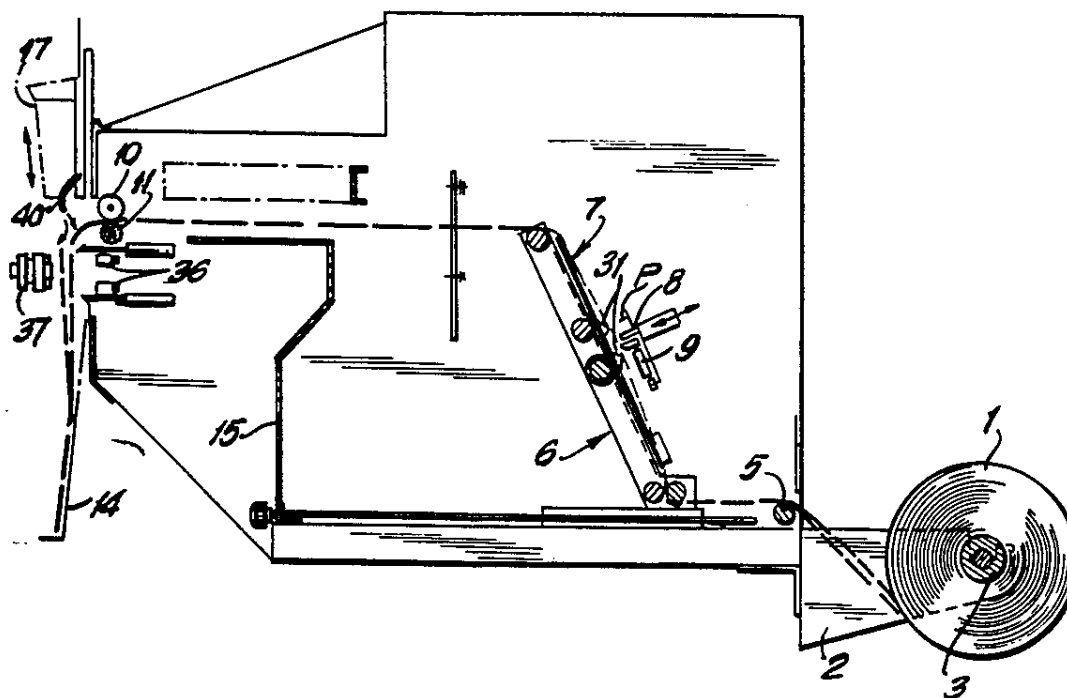
Family 6/20 - FAMPAT - ©Questel

Title

(US4586318)

Bag forming and **bagger** apparatus and method

Images



Publication data including kind & date

[US4586318](#)

A 1986-05-06 US4586318



Abstract

(US4586318)

Apparatus and method for continuously forming and filling plastic film by successively providing a continuous length of the film, slitting only the topside of the film at pre-determined intervals lengthwise of the film while tack **sealing** together both the top and bottom sides of the film at corresponding intervals, moving the slitted and tack **sealed** film into a **bag** forming and filling station, forming the plastic film successively into a plurality of **open** top **bags**, filling each **bag** with the desired material, thereafter simultaneously **sealing** the top of each filled **bag** and **sealing** the bottom of the next **bag** to be filled, removing each filled **bag** from the filling station and simultaneously advancing the next **bag** to be filled into the filling station.

Inventors

LITT IRVING L

TORRES JOSE

Latest standardized assignees - inventors removed

ALL **PACKAGING** MACHINERY

Family 7/20 - FAMPAT - ©Questel

Title

(EP2640645)

Apparatus and method for placing valve **bags**

Images

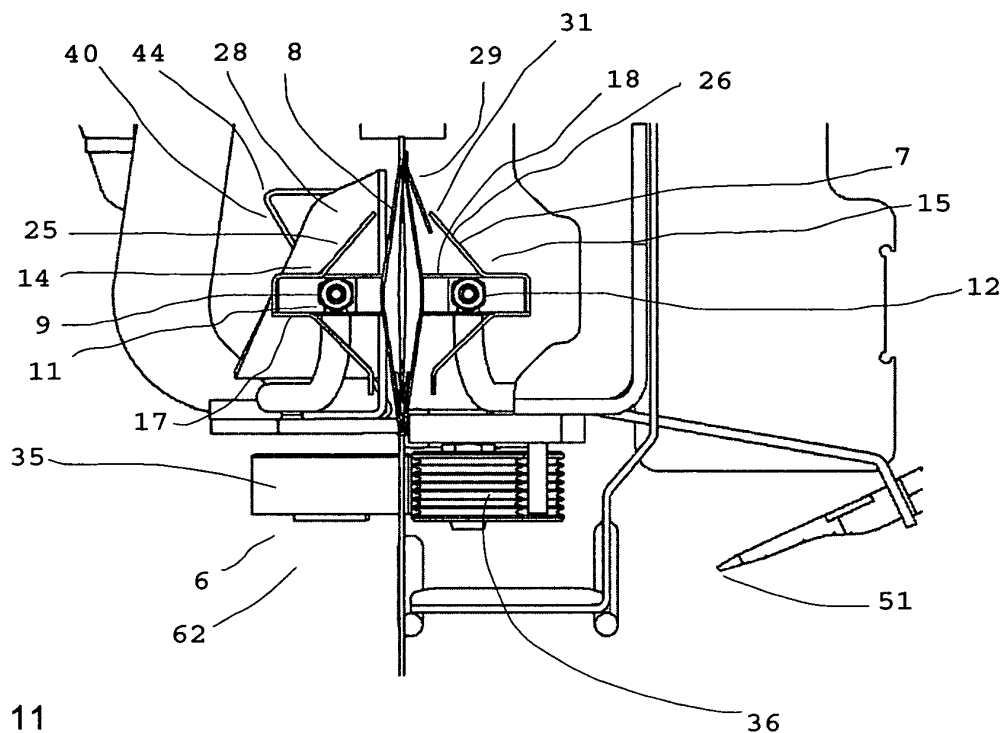


Fig. 11

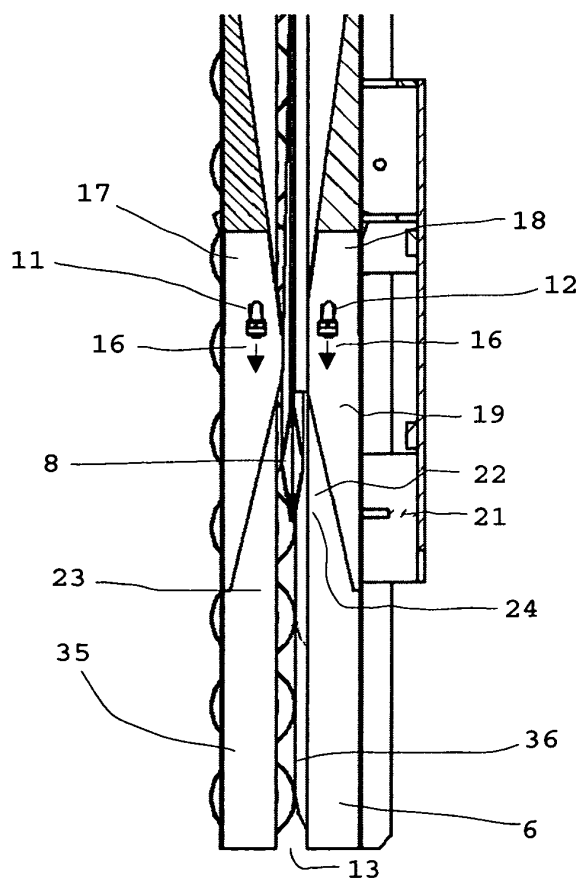
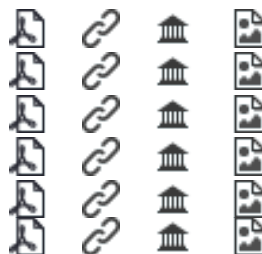


Fig. 12

Publication data including kind & date

WO2012065743	A2	2012-05-24	WO2012065743
DE102010051722	A1	2012-05-24	DE102010051722
WO2012065743	A3	2012-08-09	WO2012065743
CN103221311	A	2013-07-24	CN103221311
EP2640645	A2	2013-09-25	EP2640645



IN1514/KOLNP/2013	A	2013-10-11	IN2013KN01514				
EA201390767	A1	2014-08-29	EA201390767				
CN103221311	B	2015-02-18	CN103221311B				
EP2640645	B1	2015-05-27	EP2640645				
ES2546067	T3	2015-09-18	ES2546067				
EA026877	B1	2017-05-31	EA--26877				

Abstract

(EP2640645)

Disclosed are an apparatus and a method for placing and filling valve **bags** (2) on a filling spout of a **packaging** machine, said apparatus comprising a placing device (20), a **bag** feeding device (62), and a valve opening duct (31), the **bag** feeding device being used to place the valve **bag** on a filling spout of a **packaging** machine. According to the invention, at least one blowing device (9) comprising at least one air nozzle (11, 12) is provided in the valve opening duct in order to automatically **open** the valve of the valve **bag** in the projection duct.

Inventors

REMFERT CHRISTIAN

Latest standardized assignees - inventors removed

HAVER & BOECKER

Family 8/20 - FAMPAT - ©Questel

Title

(EP3292047)

Packaging machine**Images**

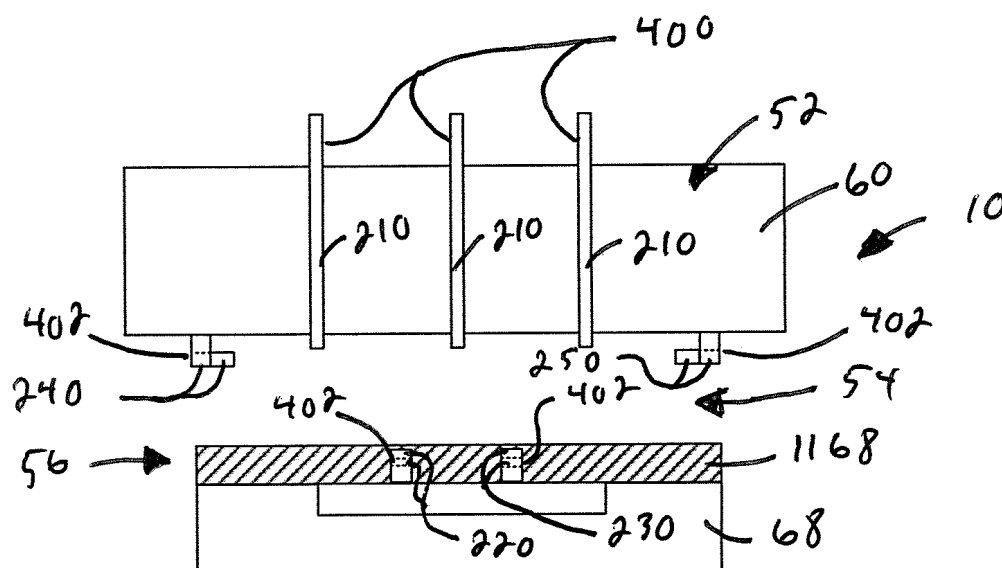
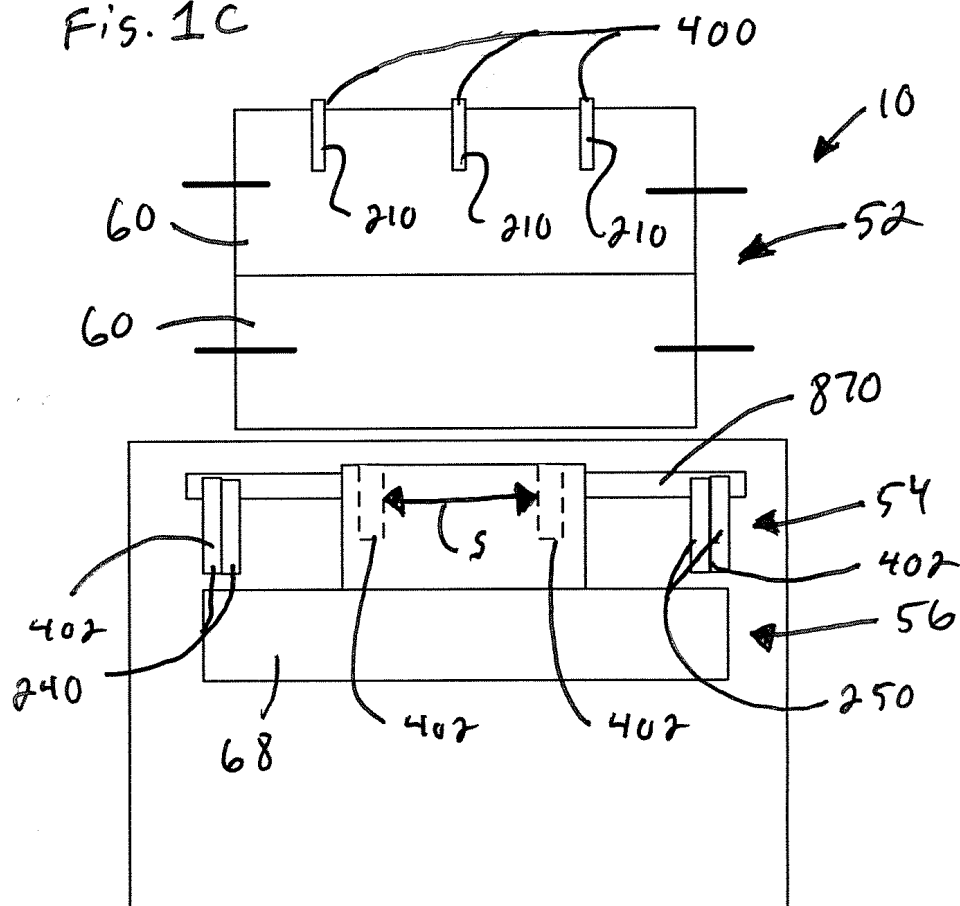


Fig. 1C



Publication data including kind & date

CA2985049	A1	2016-11-10	CA2985049
US20160325866	A1	2016-11-10	US20160325866
WO2016178733	A1	2016-11-10	WO2016178733
AU2016258449	A1	2017-11-30	AU2016258449
IN201747042748	A	2017-12-22	IN201747042748
KR20180002701	A	2018-01-08	KR20180002701
CO2017011860	A2	2018-02-09	CO2017011860
EP3292047	A1	2018-03-14	EP3292047



MX2017014098	A	2018-03-16	MX2017014098				
BR112017023716	A1	2018-04-03	BR112017023716				
JP2018514475	A	2018-06-07	JP2018514475				
CL2017002770	A1	2018-07-06	CL2770201700				
BR112017023716	A2	2018-07-17	BR112017023716				
EP3292047	A4	2018-10-17	EP3292047				

Abstract

(EP3292047)

An exemplary method of making **packages** includes advancing a web of connected **bags** to a position where an opening of the **bag** is below an engagement device and opening the engagement device. Additionally, the exemplary method includes blowing the opening of the **bag** to a partially opened configuration, and reverse indexing the web of connected **bags** so that a portion of the engagement device is disposed inside of the **bag** and a portion of the engagement device is disposed outside the **bag**. Subsequently, the exemplary method includes closing the engagement device so that the engagement device engages the **bag** and moving the engagement device to a position that causes the opening of the **bag** to have a rectangular shape.

Inventors

RICCARDI MICHAEL J

GALOSI ROBERT S

VALENTI LAWRENCE

CHUBA LARRY

SHOOK DONALD P

FERRANTE ROBERT L

IMBODEN JEFFREY R

ROMO DAVID

STULTZ MARK DAVID

Latest standardized assignees - inventors removed

AUTOMATED **PACKAGING** SYSTEMS

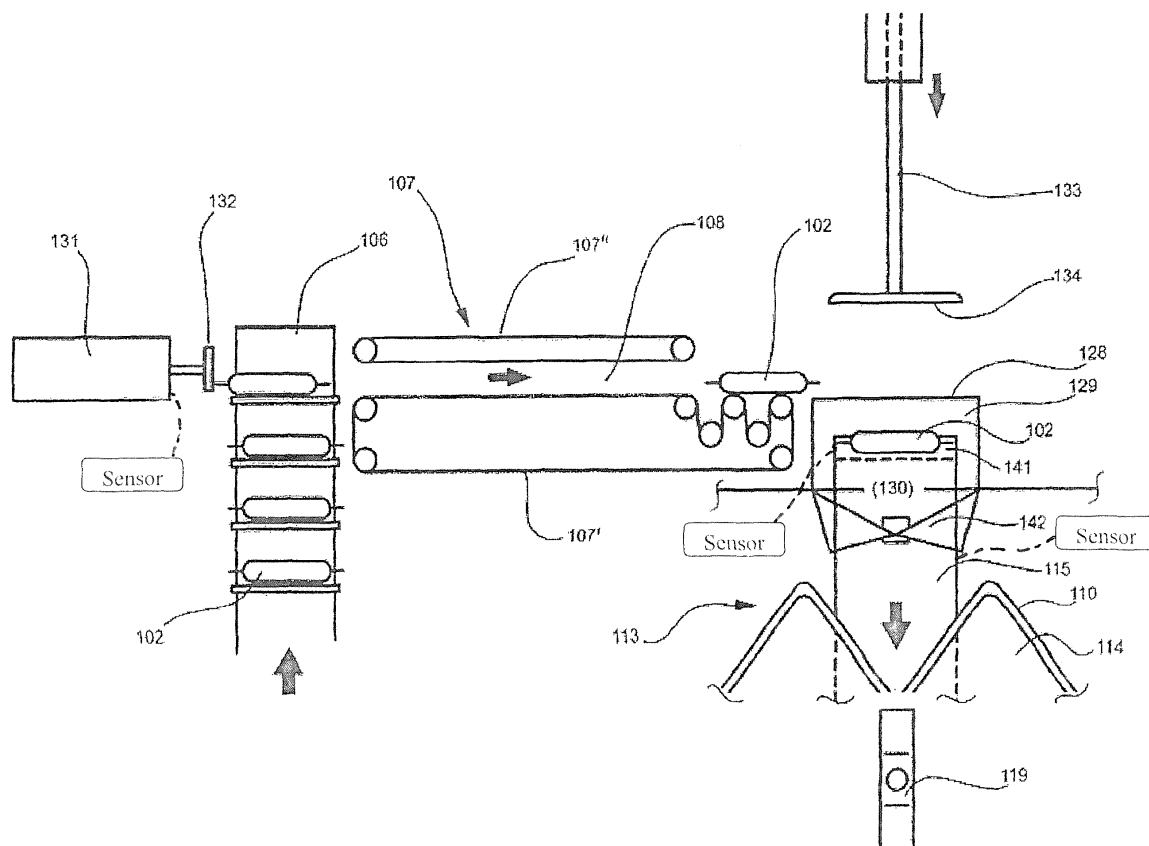
Family 9/20 - FAMPAT - ©Questel

Title

(EP2070822)

METHODS FOR THE JOINT WRAPPING OF **BAGS** WITH THEIR CONTENTS, and APPLYING MACHINE

Images



Publication data including kind & date

WO2008029250	A2	2008-03-13	WO2008029250
AU2007293230	A1	2008-03-13	AU2007293230
WO2008029250	A3	2008-08-28	WO2008029250
MX2009002075	A	2009-05-26	MX2009002075
IN1858/DELNP/2009	A	2009-05-29	IN2009DN01858
EP2070822	A2	2009-06-17	EP2070822
US20100018162	A1	2010-01-28	US20100018162
JP2010502521	A	2010-01-28	JP2010502521
US20120060448	A1	2012-03-15	US20120060448
AU2007293230	B2	2012-09-20	AU2007293230
US8327611	B2	2012-12-11	US8327611
US8438818	B2	2013-05-14	US8438818
JP5266224	B2	2013-08-21	JP5266224
EP2070822	B1	2013-11-20	EP2070822
ES2448492	T3	2014-03-14	ES2448492
BRPI0716476	A2	2014-03-18	BR200716476
EP2070822	B8	2016-01-06	EP2070822
ES2448492	T8	2016-03-15	ES2448492
BRPI0716476	B1	2018-11-21	BR200716476



Abstract

(EP2070822)

Method for the joint wrapping of **bags** containing a product in pieces, granules or powder piled inside an elongated laminar wrapping made of thermo-adherent plastic and joined at its longitudinal edges forming a sleeve closed at its bottom and at its laminar header wall with weldings, which comprise: a) making the **bags** laid on a conveyor go forward; b) delivering at least a first **bag** on a support while welding means **close** the laminar wrapping determining a bottom; c) partially forming a continuous laminar wrapping closed longitudinally with the shape of a sleeve with its bottom welded according to step b); d)

AT97371	T	1993-12-15	ATE097371				
DE59003548	D1	1993-12-23	DE59003548				
ES2046662	T3	1994-02-01	ES2046662				
CN1023990	C	1994-03-16	CN1023990C				
BRPI9100368	B1	1995-06-27	BR9100368				
JP2002000015	U	2002-06-07	JP2002000015U				

Abstract

(EP-439789)

The invention relates to a method for the manufacture, filling and **sealing** of **bags** starting with a flat web of tubular foil preferably provided with side folds of thermoplastic synthetic resin in the case of which the respectively leading end of the tubular foil web is provided with a transverse weld seam and then a section in the form of an **open bag** is severed from the tubular foil web and wherein the **bag** is then filled and the **open** end of the **bag** is drawn taut and closed by means of a transverse weld. In order to achieve the aim of providing a method and an apparatus of the type initially mentioned with which **bags** may be produced, filled and **sealed** with a simple mechanical system after the production of the terminal transverse weld the tubular foil web is fed by the length of a section through the opened welding jaws of the welding station and the **bag** formed in this manner is gripped laterally by a pair of **grippers** and at a higher level than the pairs of **grippers** is severed from the tubular foil web using a transverse severing cut. The **bag** held by the pairs of **grippers** on the two sides of its **open** end lower down than the edge of the opening is conveyed by the pair of **grippers** into the filling station, wherein for opening the **bag** the **grippers** are moved towards each other. The pairs of **grippers** pull taut the edges of the opening of the **bag** after the same has been filled and return the same into the welding station, in which the ends of the opening of the **bag**, which project beyond the pair of **grippers**, are connected together by a head weld. The invention furthermore relates to an apparatus for performing the said method.

(From US5086609 A)

Inventors

TETENBORG KONRAD

Latest standardized assignees - inventors removed

WINDMOELLER & HOELSCHER

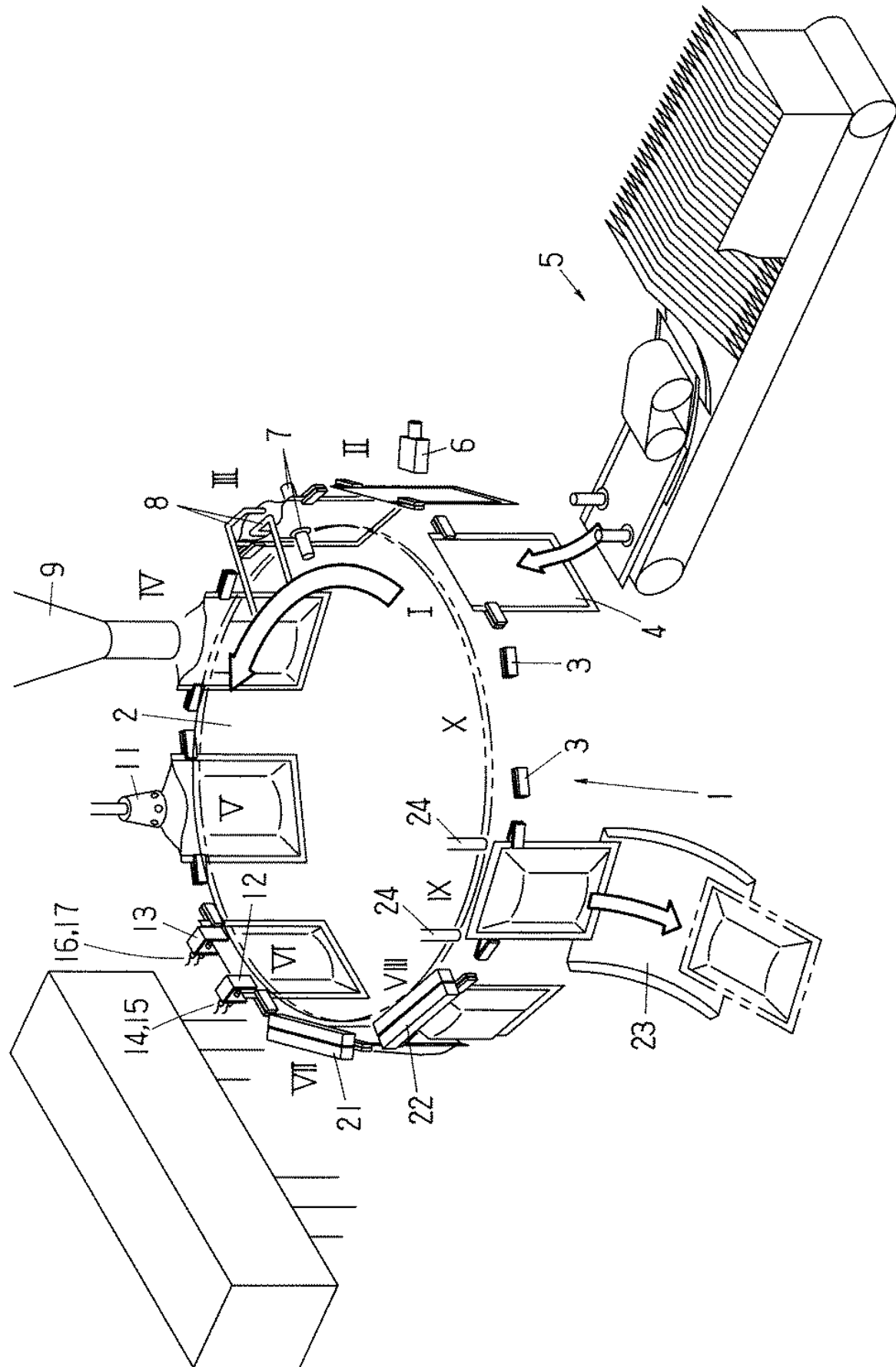
Family 11/20 - FAMPAT - ©Questel

Title

(JP2012232780)

Packing processing method for **bagging/packing** machine and **bagging/packing** machine

Images



Publication data including kind & date

JP2012232780

A 2012-11-29 JP2012232780



Abstract

(JP2012232780)

PROBLEM TO BE SOLVED: To obtain an intermittent rotation type rotary type **bagging/packing** machine which achieves improvement in productivity by automatically performing detection of occurrence of positional deviation of a **bag** (**bag** filled

with substance to be **packed**) caused by adhesion of substance to be **packed** such as granules or liquid substance to a gripping part, and cleaning of the gripping part without stopping a **packing** machine. SOLUTION: Positional deviation detecting sensors 14 to 17 detecting the occurrence of the positional deviation of the **bag** 4 in the gripping parts 3 and 3 are installed at a stop position VI, and air jetting nozzles 24 and 24 jetting air to the gripping parts 3 and 3 are installed at a stop position IX. If the positional deviation detecting sensors 14 to 17 detect the occurrence of the positional deviation in the gripping parts 3 and 3 stopped at the stop position VI, the air is jetted from the air jetting nozzles 24 and 24 to the gripping parts 3 and 3 when the gripping parts 3 and 3 stop at the stop position IX and **open**, to blow off the adhering substance to be **packed** and thereby cleaning it.

Inventors

UEDA TAKESHI

Latest standardized assignees - inventors removed

TOYO JIDOKI

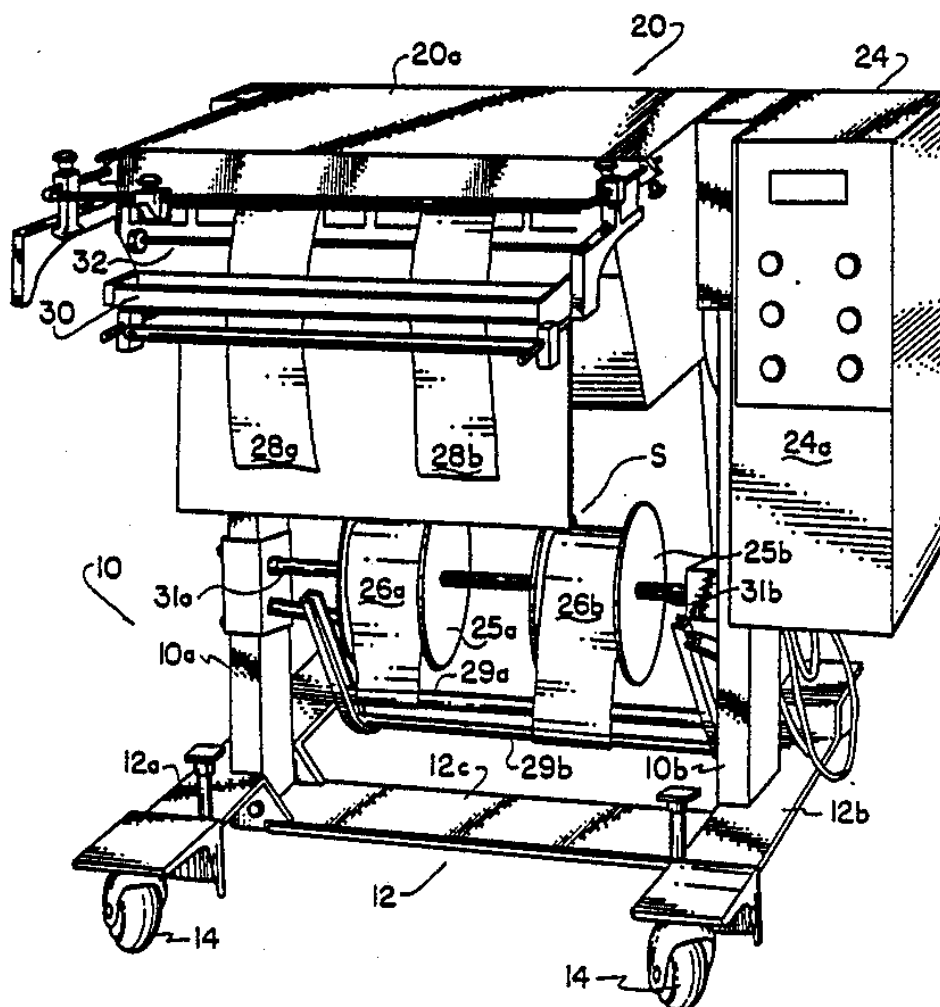
Family 12/20 - FAMPAT - ©Questel

Title

(US4899520)

Packaging apparatus and method

Images



Publication data including kind & date

US4899520

A 1990-02-13 US4899520

CA1321780

C 1993-08-31 CA1321780



Abstract

(US4899520)

A **packaging** machine and method for simultaneously loading, **sealing** and severing **bags** forming part of at least two independent chains of **bags**. Two juxtaposed nip roll assemblies including axially aligned feed roll portions can be independently actuated in order to selectively feed one or two webs. A drive motor, having a dual output, is selectively coupled to the nip roll assemblies by clutch/brake units which can be selectively actuated. After a **bag** or **bags** are loaded, a **sealing** mechanism is actuated to **seal** the loaded **bag** or **bags**. A sensor monitors movement in a **seal** unit member and terminates the **sealing** cycle if movement in the **seal** member occurs prior to the pressure bar reaching a predetermined position. While a **bag** or **bags** are being **sealed**, a tear off mechanism including a rod-like member is advanced into and through the web path in order to sever the loaded **bag** from the remainder of the web. Actuators operatively connected to distal ends of the member are actuated sequentially in order to move one end of the rod into contact with the web before the other end makes contact. As a consequence, severance of a **bag** along a line of weakness begins at one marginal edge of the **bag** and proceeds towards its opposite marginal edge. In an alternate embodiment, the stepper motor drive is used to advance **bags** to a loading station and when using loading funnels, are used to retract the **bag** in order to have a mouth of the **bag** engage a loading funnel. In addition, the stepper motor drive can be used to sever loading **bags** from the remainder of the web by reverse feeding the webs either concurrently or in a staggered relationship.

Inventors

LERNER BERNARD

GEREBY JOHN

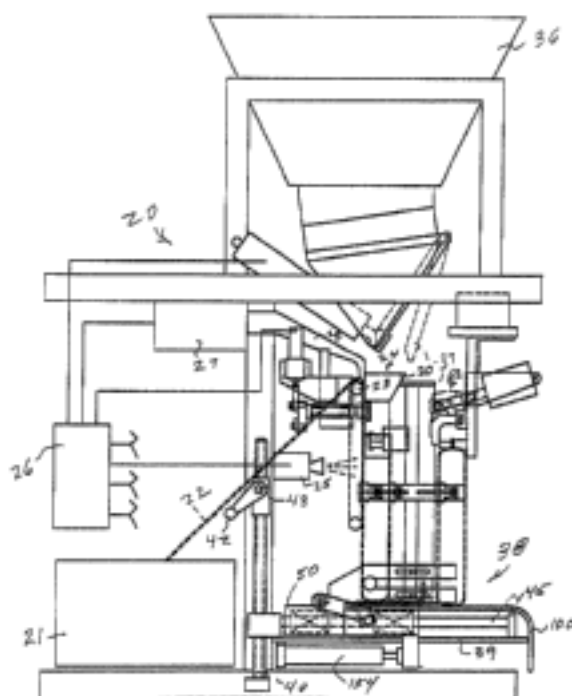
WEHRMANN RICK

Latest standardized assignees - inventors removedAUTOMATED **PACKAGING** SYSTEMS

Family 13/20 - FAMPAT - ©Questel

Title

(CA1315247)

Packaging machine & method**Images****Publication data including kind & date**

CA1315247

C 1993-03-30 CA1315247

**Abstract**

(CA1315247)

A **packaging** machine which is especially suited for **bagging** pulverulent products and liquids in **bags**. **Bags** are transferred from a loading to a closure station by a stretcher and shuttle assembly. The stretcher includes fingers for projection into recesses in spreader horns and subsequent movement away from one another. A **bag** support for supporting a loaded **bag** during transfer and expelling completed **packages** is also provided. A4 -> A4

Inventors

PEPPARD JAMES P

WEHRMANN RICK S

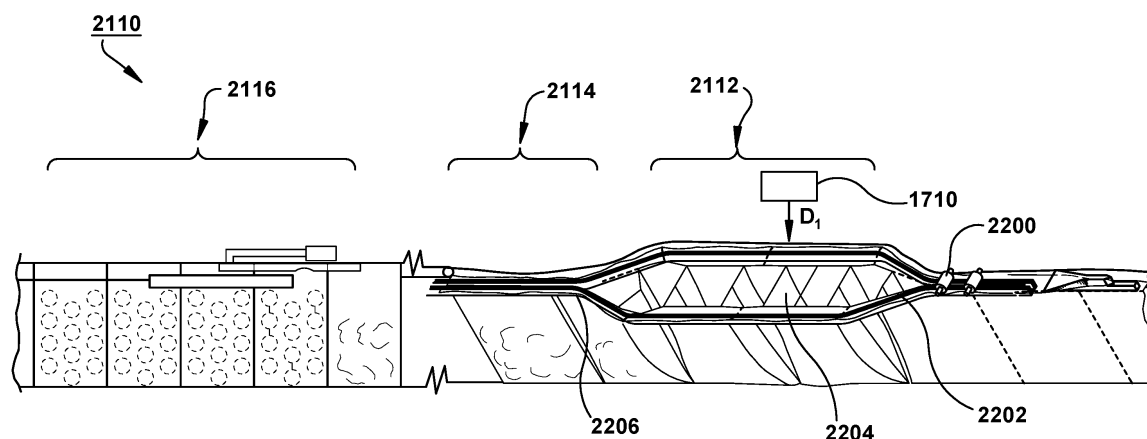
GATES ANTHONY H

Latest standardized assignees - inventors removedAUTOMATED **PACKAGING** SYSTEMS

Family 14/20 - FAMPAT - ©Questel

Title

(EP3393916)

On-demand inflatable **packaging****Images****Publication data including kind & date**

CA3008861	A1	2017-06-29	CA3008861
WO2017112773	A1	2017-06-29	WO2017112773
US20170225813	A1	2017-08-10	US20170225813
AU2016378584	A1	2018-06-28	AU2016378584
BR112018012634	A1	2018-07-03	BR112018012634
CO2018007091	A2	2018-07-19	CO2018007091
IN201847026264	A	2018-07-20	IN201847026264
KR20180096744	A	2018-08-29	KR20180096744
EP3393916	A1	2018-10-31	EP3393916
BR112018012634	A2	2018-12-04	BR112018012634
JP2019503306	A	2019-02-07	JP2019503306

**Abstract**

(EP3393916)

In a method of making **packages**, a web of preformed inflatable **bags** is moved along a path of travel. The preformed inflatable **bags** include two inflatable panels, and each inflatable panel includes a first ply and a second ply that are **sealed** together to form an inflation pattern. Each of the preformed inflatable **bags** are inflated and **sealed** across the **seals** of the inflation pattern. A product is deposited into each of the preformed inflatable **bags**, either before or after the inflation and/or **sealing**. Each of the preformed inflatable **bags** and contained product are loaded into a non-inflatable **bag**.

Inventors

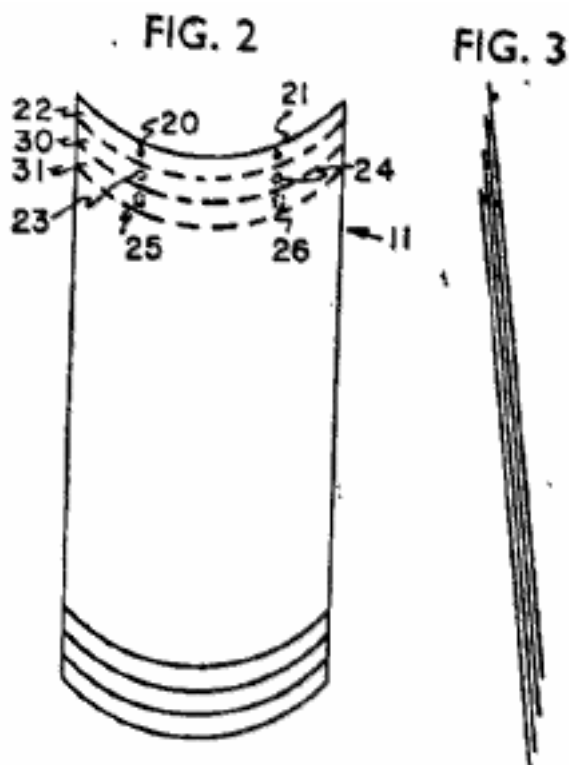
WEHRMANN RICK STEVEN

Latest standardized assignees - inventors removedAUTOMATED **PACKAGING** SYSTEMS

Family 15/20 - FAMPAT - ©Questel

Title

(GB1202449)

Package of imbricated **bags****Images****Publication data including kind & date**

FR1579412	A	1969-08-22	FR1579412
GB1202449	A	1970-08-19	GB1202449
DE1786269	A1	1972-02-10	DE1786269

**Abstract**

(FR1579412)

1,202,449. **Package** of **bags**. W.R.GRACE & CO. 11 Sept., 1968 [11 Sept., 1967; 29 Aug., 1968], No. 43273/68. Heading B8C. A plurality of **bags**, each having an upper (right of Fig. 3) and a lower face, overlies each other to form a chain in the manner shown, the upper and the lower face of each intermediate **bag** being connected at 20, 21 &c., (or along one or more continuous lines) by adhesive, fusionsealing &c. to a respective lower and upper face of the adjacent **bag**. In using the **bags**, the chain is laid on a flat surface (34), the top **bag** is either opened by hand(s) or inflated (Fig. 4, not shown) by an air stream &c., the article is inserted in the **bag** and the **bag** is then disconnected from the chain (by pulling) and discharged. Alternatively the **bag** may be disconnected from the chain before insertion of the article. The **seals** 20, 21 &c. or the **sealing** lines may also join together the two faces of the same **bag** which when using the **bag** is opened by inserting hands &c. Clamps (32), hold the underlying **bags** while the top **bag** is operated upon. A slip agent or dust covering may be provided on both sides of the **bag** walls.

(From GB1202449 A)

Inventors

LEWIS WING RALPH

Latest standardized assignees - inventors removed

WR GRACE

US20180354668

A1 2018-12-13

US20180354668

Abstract

(WO2018226612)

An exemplary web of preformed **bags** includes first and second layers, first and second side, first and second side **seals** proximate the first and second edges, a plurality of transverse **seals** extending between the first and second side edges, an opening in the first layer, and a line of separation in the second layer, a first line of weakness in the first layer. The first line of weakness has a plurality of gaps having no perforations in a region between the plurality of openings in the first layer and the plurality of transverse **seals**.

Inventors

LEAP RITCHIE

CANTWELL RYAN

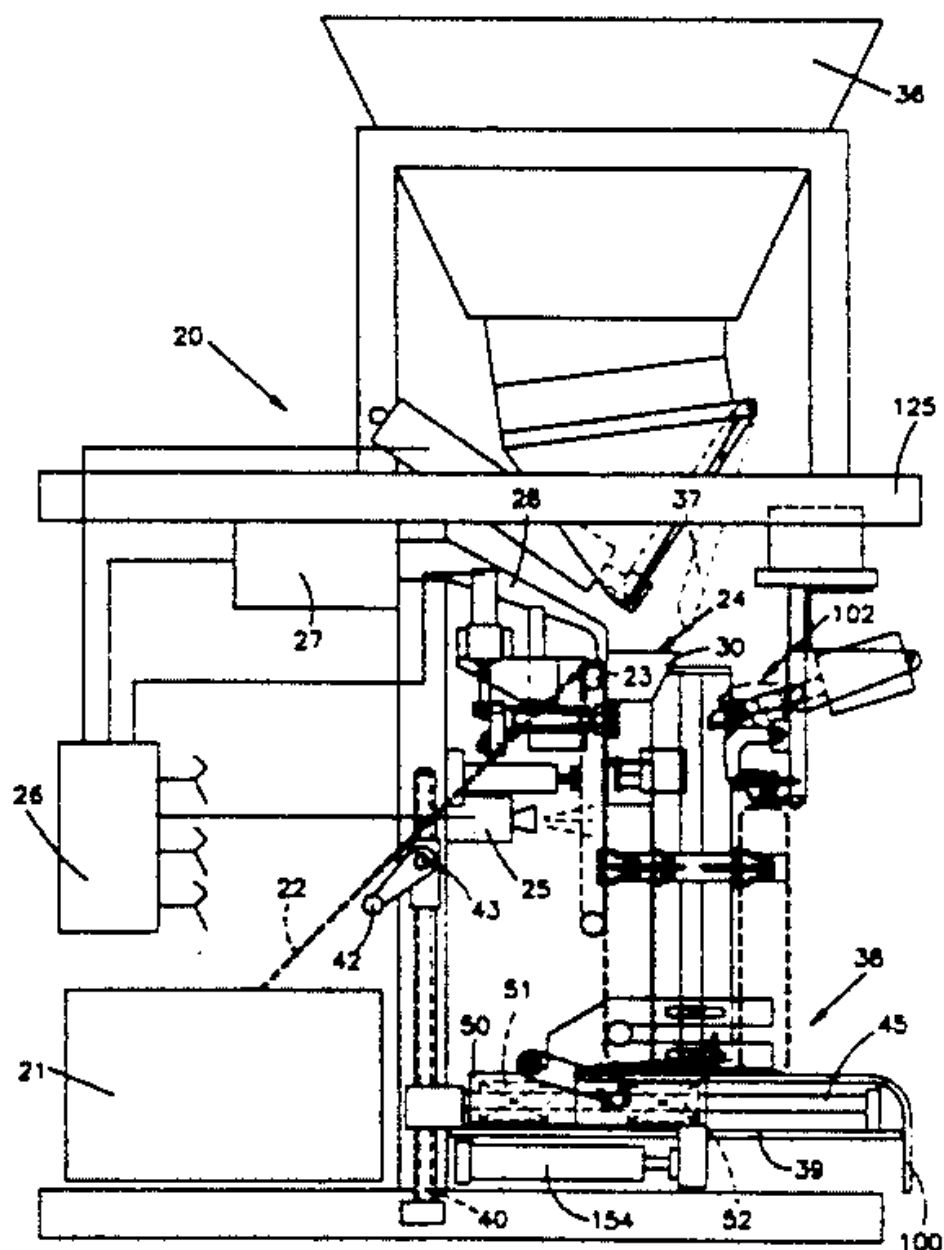
Latest standardized assignees - inventors removedAUTOMATED **PACKAGING** SYSTEMS

Family 17/20 - FAMPAT - ©Questel

Title

(EP-413431)

Packaging machine.**Images**



Publication data including kind & date

EP0413431	A2	1991-02-20	EP-413431
EP0413431	A3	1991-06-12	EP-413431
AU6364790	A	1992-04-02	AU9063647
US5265402	A	1993-11-30	US5265402
AU645993	B2	1994-02-03	AU-645993
EP0413431	B1	1994-04-06	EP-413431
AT103866	T	1994-04-15	ATE103866
DE69007903	D1	1994-05-11	DE69007903
ES2050955	T3	1994-06-01	ES2050955
DE69007903	T2	1994-11-03	DE69007903



Abstract

(EP-413431)

A **packaging** machine and method of **packaging** utilizing chains (22) of interconnected preopened **bags** which are fed sequentially and one at a time to a load station (24). **Bag** tops are clamped against spreading horns (30) by sensor equipped clamps (135) which cause disablement of a **bag** filling mechanism unless a **bag** is properly located at the load

station. A **bag** spreading and transfer mechanism (38) spreads a loaded **bag** and transfers it to a **bag** closure station (102) for **sealing**. The mechanism includes **bag** supporting structures for supporting the **bag** during loading transfer and **sealing** and for expelling a completed **package** from the machine.

Inventors

PEPPARD JAMES R
GATES ANTHONY H
WEHRMANN RICK S
LERNER BERNARD

Latest standardized assignees - inventors removed

AUTOMATED **PACKAGING** SYSTEMS

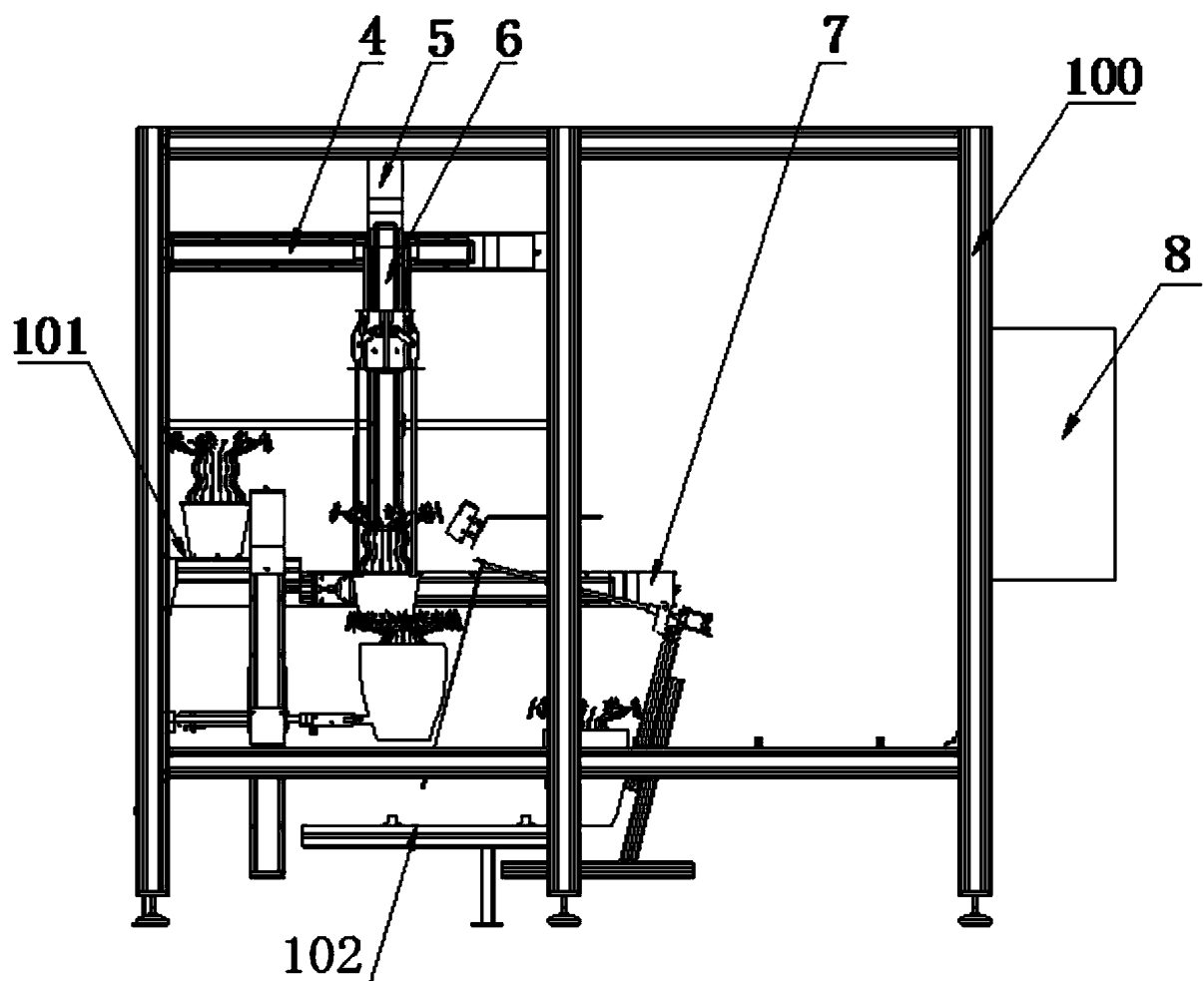
Family 18/20 - FAMPAT - ©Questel

Title

(CN103010512B)

Automatic **packing** device for potted flower cap **bags** and system equipment thereof

Images



Publication data including kind & date

CN103010512	A	2013-04-03	CN103010512
CN103010512	B	2014-07-16	CN103010512B



Abstract

(CN103010512B)

The invention discloses an automatic **packing** device for potted flower cap **bags** and system equipment thereof. The device comprises a rack, an electric control box, a manipulator unit device capable of finishing serial continuing actions of grabbing, carrying and **bag** dropping for fed potted flowers and arranged above a working tabletop of the fed potted flowers, a **bag** supporting mechanism capable of implementing serial continuing actions of absorption, supporting and static

electricity removal for the potted flowers by using **packing bags**, and a clamping jaw unit device capable of implementing serial continuing actions of clamping, carrying and placement for the **bagged** potted flowers, wherein manipulators of the manipulator unit device do fixed-travel reciprocal movements in transverse and longitudinal directions dependent on a first electric sliding table set; the **bag** supporting mechanism comprises one set of vacuum suckers, a supporting plate for the **packing bags**, and an electrostatic eliminator; the vacuum suckers do fixed-travel reciprocal movements in the horizontal direction following up sliding blocks of a second electric sliding table; and the clamping jaw unit comprises a cylinder, and one set of pneumatic hand jaws driven by the cylinder and capable of realizing opening and closing actions. The device can realize the automatic **packing** of the potted flower cap **bags**.

Inventors

BU YUNLONG

WANG HUIXUE

LÜ KE

ZHOU ZENGCHAN

LONG ZHIQIANG

ZHANG CHUNYANG

Latest standardized assignees - inventors removed

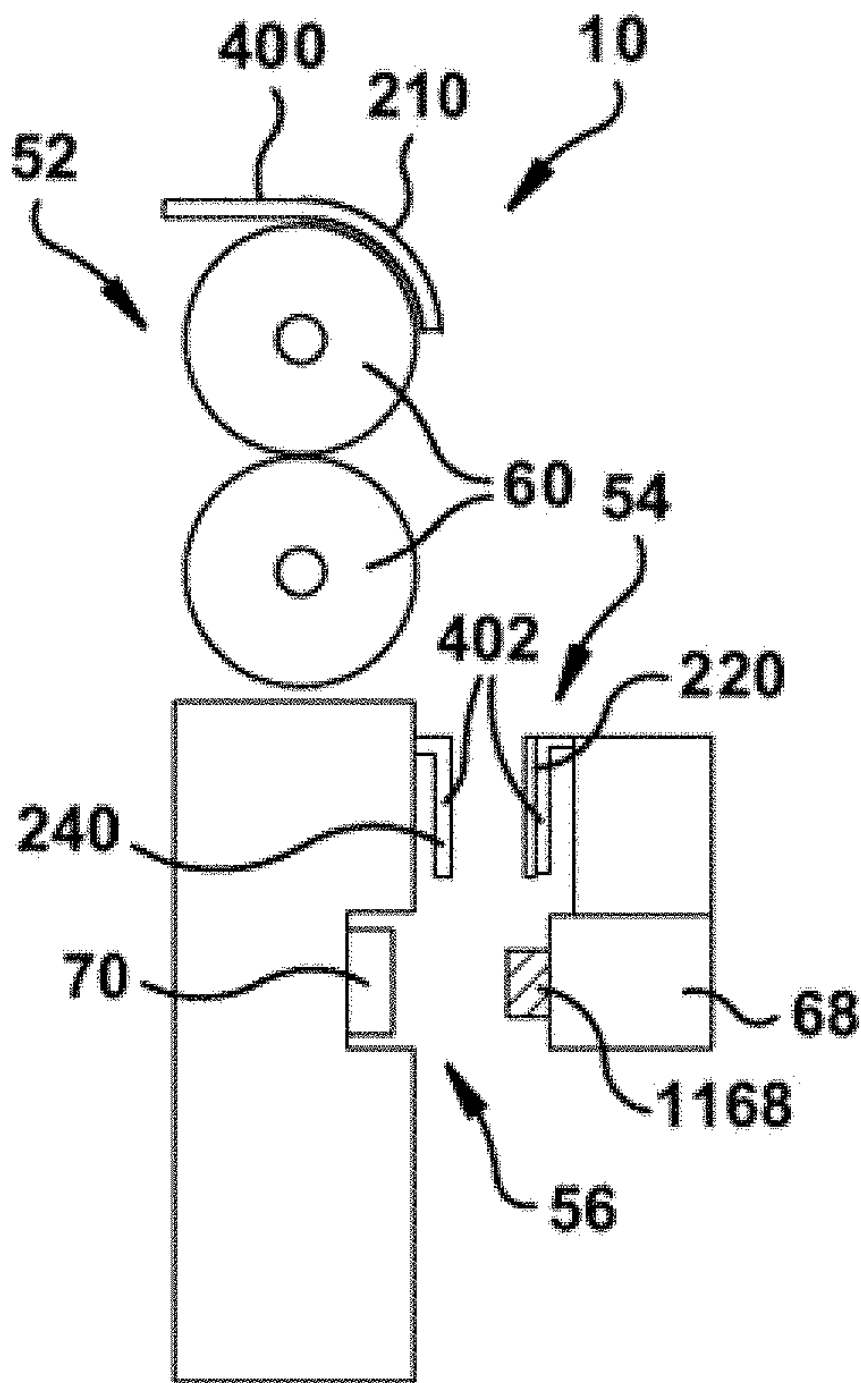
BEIJING KINGPENG INTERNATIONAL HI TECHNOLOGY

Family 19/20 - FAMPAT - ©Questel

Title

(WO2018222956)

Bagger safety system**Images**



Publication data including kind & date

[WO2018222956](#)

A1 2018-12-06

WO2018222956

[US20180347754](#)

A1 2018-12-06

US20180347754



Abstract

(WO2018222956)

A **bagger** safety system includes a controller, a heating element, a light-emitting device, a light-detecting device and a backing assembly. The backing assembly includes a backing bar, a pair of reflectors and a **seal** backing element movably coupled to the backing bar by at least one mechanical force generating member so as to create a space between the **seal** backing element and the backing bar when no external force is applied to the mechanical force generating member. Light emitted from a light-emitting device reflects off the reflectors to the light-detecting device when no external force is applied to the mechanical force generating member. Movement of the **seal** backing element toward the backing bar prevents light emitted from the light-emitting device from reaching the light-detecting device and the controller controls movement of the

backing assembly toward the heating element based on whether light from light-emitting device reaches the light-detecting device.

Inventors

MILLER CHRIS

STULTZ MARK

Latest standardized assignees - inventors removed

AUTOMATED **PACKAGING** SYSTEMS

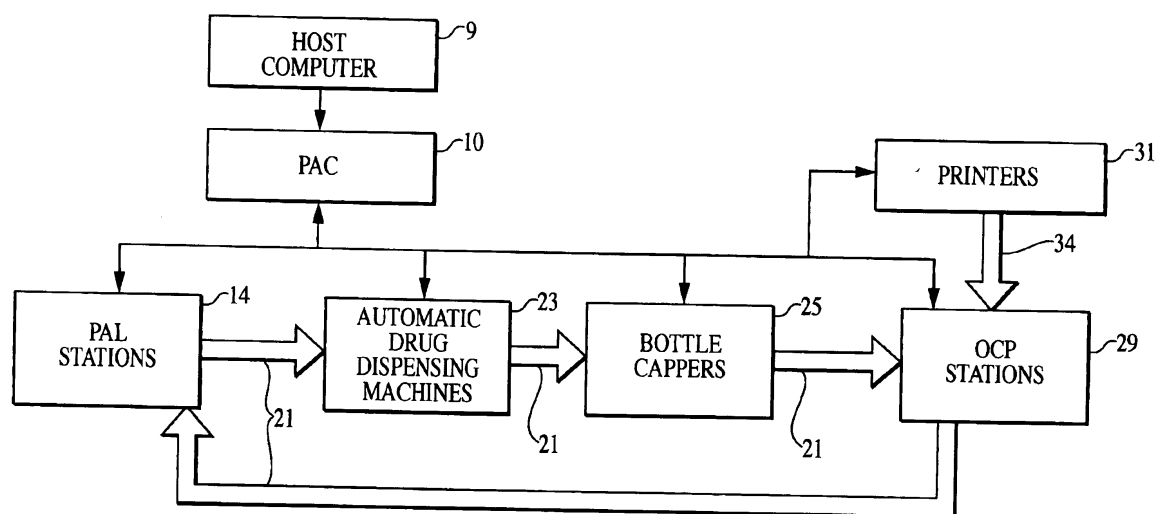
Family 20/20 - FAMPAT - ©Questel

Title

(EP2316406)

Bottle storage apparatus

Images



Publication data including kind & date

EP1388336	A1	2004-02-11	EP1388336
WO2004014735	A1	2004-02-19	WO200414735
WO2004014738	A1	2004-02-19	WO200414738
WO2004014737	A2	2004-02-19	WO200414737
WO2004014287	A2	2004-02-19	WO200414287
AU2003269946	A1	2004-02-25	AU2003269946
AU2003261423	A1	2004-02-25	AU2003261423
AU2003261423	A8	2004-02-25	AU2003261423
AU2003261422	A1	2004-02-25	AU2003261422
AU2003265376	A1	2004-02-25	AU2003265376
US20040065053	A1	2004-04-08	US20040065053
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US20040123567	A1	2004-07-01	US20040123567
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US6892512	B2	2005-05-17	US6892512
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EP1537023	A1	2005-06-08	EP1537023				
US6970769	B2	2005-11-29	US6970769				
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US7010899	B2	2006-03-14	US7010899				
US20060074521	A1	2006-04-06	US20060074521				
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US20060107623	A1	2006-05-25	US20060107623				
EP1388336	B1	2006-10-04	EP1388336				
AT341303	T	2006-10-15	ATE341303				
DE60308774	D1	2006-11-16	DE60308774				
EP1731130	A1	2006-12-13	EP1731130				
EP1731129	A1	2006-12-13	EP1731129				
US7185477	B2	2007-03-06	US7185477				
HK1063146	A1	2007-03-23	HK1063146				
ES2275963	T3	2007-06-16	ES2275963				
US20070169439	A1	2007-07-26	US20070169439				
DE60308774	T2	2007-08-16	DE60308774				
EP1534593	B1	2007-10-17	EP1534593				
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DE60316960	D1	2007-11-29	DE60316960				
EP1882635	A2	2008-01-30	EP1882635				
EP1882634	A2	2008-01-30	EP1882634				
EP1882635	A3	2008-02-27	EP1882635				
EP1882634	A3	2008-02-27	EP1882634				
ES2297201	T3	2008-05-01	ES2297201				
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US7386965	B2	2008-06-17	US7386965				
DE60321405	D1	2008-07-10	DE60321405				
DE60316960	T2	2008-07-24	DE60316960				
US7409977	B2	2008-08-12	US7409977				
HK1098044	A1	2008-08-15	HK1098044				
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ES2308634	T3	2008-12-01	ES2308634				
US20080295952	A1	2008-12-04	US20080295952				
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AU2003261422	B2	2009-04-02	AU2003261422				
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AU2009202369	A1	2009-07-02	AU2009202369				
DE60327779	D1	2009-07-09	DE60327779				
HK1076434	A1	2009-08-07	HK1076434				
US20090211198	A1	2009-08-27	US20090211198				

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ES2327634	T3	2009-11-02	ES2327634				
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AU2003269946	B8	2010-01-14	AU2003269946				
AT454878	T	2010-01-15	ATE454878				
EP1537023	B1	2010-01-20	EP1537023				
AT455705	T	2010-02-15	ATE455705				
US7668618	B2	2010-02-23	US7668618				
DE60331011	D1	2010-03-04	DE60331011				
EP1882635	B1	2010-03-10	EP1882635				
DE60331076	D1	2010-03-11	DE60331076				
AT460342	T	2010-03-15	ATE460342				
HK1098341	A1	2010-03-26	HK1098341				
DE60331699	D1	2010-04-22	DE60331699				
ES2337813	T3	2010-04-29	ES2337813				
HK1076433	A1	2010-05-28	HK1076433				
AU2003265376	B2	2010-06-03	AU2003265376				
EP1882635	B8	2010-06-16	EP1882635				
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ES2342012	T3	2010-06-30	ES2342012				
EP1537023	B9	2010-09-22	EP1537023				
AU2010214790	A1	2010-09-23	AU2010214790				
EP2236120	A1	2010-10-06	EP2236120				
EP2316406	A1	2011-05-04	EP2316406				
AU2009202369	B2	2011-06-23	AU2009202369				
US8110057	B2	2012-02-07	US8110057				
US8117809	B2	2012-02-21	US8117809				
US8136332	B2	2012-03-20	US8136332				
EP1882634	B1	2012-03-28	EP1882634				
AT551269	T	2012-04-15	ATE551269				
US8275481	B2	2012-09-25	US8275481				
EP2236120	B1	2012-11-28	EP2236120				
US20120312450	A1	2012-12-13	US20120312450				
US20130000260	A1	2013-01-03	US20130000260				
US8480834	B2	2013-07-09	US8480834				
US8539742	B2	2013-09-24	US8539742				

Abstract

(EP2316406)

Computer assisted systems, methods and mediums for filling one or more orders. One embodiment of the present invention is a system that includes an order consolidation station (215) configured to receive at least one bottle containing pills individually counted and/or at least one **package** containing pharmaceutical products without having been designated for any of the orders when the **package** was created and/or at least one literature **pack** optionally including patient specific information. The order consolidation station is further configured to combine automatically the received bottle and/or **package** and/or literature **pack** into a container to be sent to a recipient including, for example, mail order pharmacies, wholesalers and/or central fill dealers for subsequent distribution or sale including retailer distribution or sale. The bottle is specifically designated for the order, and the order generally includes at least one prescription for the **package**.

Inventors

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BOOLER ANDREW P

WALTON DOUGLAS W

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HESS E CHRISTIAN

LEU CHIH-JEN

Latest standardized assignees - inventors removed

EXPRESS SCRIPTS STRATEGIC DEVELOPMENT