

Search history

- Search [SP]: Disclosed is a method for filling the pockets (20a-c) of a transport device in the form of a suspension conveyor, the transport device comprising one or more trolleys which are movably mounted on a trolley track (15a, b) in a trolley track direction and on each of which a pocket (20a-c) hanging downwards for receiving transported goods (19b) is arranged, said pocket (20a-c) being formed by at least one flexible material web that is planar when open and that is fastened at both ends to the trolley, forming a carrying loop or transport loop hanging downwards. The material web is releasably fastened by at least one end to the trolley. The method comprises the steps: a) advancing a closed pocket (20a-c), b) opening the pocket (20a-c) by releasing the fastening of the at least one end of the material web to the trolley, c) filling the opened pocket (20a-c) with goods to be transported (19b), d) closing the pocket (20a-c) by fastening the at least one end of the material web to the trolley, and e) transporting away the filled and closed pocket (20a-c). (Results 53)
- Search IC=(B65G) (Results 638225)
- 2:
- Search 1 and 2 (Results 50)
- 3:
- Search rail (Results 1000000)
- 4:
- Search 3 and 4 (Results 41)
- 5:

1) Family number: 19812779 (GB733714A)

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Title: IMPROVEMENTS IN OR RELATING TO ENDLESS CONVEYORS

Abstract: 733,714. Endless belt conveyers. PREPARATION INDUSTRIELLE DES COMBUSTIBLES. March 12, 1953, No. 6867/53. Class 78 (1). An endless conveyor belt a is normally held suspended in trough formation by a support b, formed by a network of cables, which is provided at spaced points along the length of the belt with pairs of chains c, d secured to spindles e¹ of pairs of wheels e propelled along a track by driving means such as an endless chain. The upper end of each chain d terminates in a hook g normally engaging a hook f on the spindle e¹, whilst each chain c is connected directly to the spindle. Rollers h on the hooks g engage rails i provided at the loading and unloading stations. At a loading station these rails are shaped so that the rollers h on engaging them are first moved upwardly and then outwardly whereby the hooks g are disengaged from the hooks f and the chains d move away from the chains c so as to open the belt. At an unloading station, the rails i are shaped so that after the rollers h run on to them, they are moved first upwardly to disengage the hooks g from the hooks f and then outwardly and downwardly whereby the edge of the belt attached to the chain d falls below the opposite edge and the material slides off the belt. The rails may be shaped whereby the detached edge of the belt is raised to effect discharge. When the loaded or unloaded belt has passed the loading or unloading station the rails i return the conveyor parts to the condition shown in Fig. 1. In a modification, Fig. 4, each pair of chains are connected to a hook-shaped member p carrying a pulley wheel p¹ adapted to run on a rail n which is suspended by members m from a suspension system comprising cables k¹, k² connected by rigid members l. Resilient cushioning members may be provided between the wheels e and the edges of the belt, for example, at either end of the chains c, d. The driving means may be protected from the weather by a tubular shield. The conveyor belt may be arranged to have increased flexibility in its edge portions and its loadsupporting surface to include resilient pads to protect it against the action of sharp-edged material being conveyed. Furthermore, one edge of the belt may include a portion of extended width which overlaps the other edge of the belt except during loading and unloading so as to protect the conveyed material from the effects of weather.

Classifications:

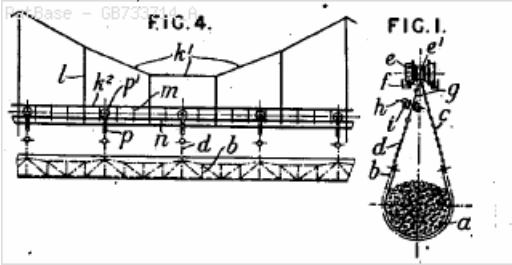
International (IPC 8-9): B65G17/02 B65G17/20 (Advanced/Invention);

B65G17/00 B65G17/20 (Core/Invention)

International (IPC 1-7): B65G17/02

CPC: B65G17/20 B65G17/02 B65G2201/04

European: B65G17/00 B65G17/02 B65G17/20 L65G201/04
L65G812/02F2B2B



Family:

Publication number	Publication date	Application number	Application date
GB733714 A	19550720	GB19530006867	19530312

Priority:

GB19530006867 19530312

Probable Assignee: PREP IND COMBUSTIBLES

Assignee(s): (std): PREP IND COMBUSTIBLES

Assignee(s): PREPARATION INDUSTRIELLE DES COMBUSTIBLES

Inventor(s): (std): HERSCHLEIN RUDOLF ; HERTEL HEINRICH

Title: LIFT MECHANISM FOR RAIL CONVEYORS

Abstract: (Claim 1) 1. A lift mechanism for rail conveyors including (a) a guide track having rail means at least a portion of said guide track being upwardly inclined, (b) trolleys movably mounted on said guide track, (c) each of said trolleys including body means, (d) axle means forming pusher bars supported by said body means and extending from opposite sides of said body means, (e) wheels mounted on said axle means in opposed relationship and in engagement with said rail means, (f) load carrying means supported by each of said trolleys and vertically spaced below said axle means, (g) carrier means mounted adjacent said guide track and in close association therewith, (h) said carrier means comprising a pair of spaced endless belts, (i) pusher members mounted on each of said spaced belts and extending outwardly therefrom for engagement with said pusher bars, (j) said pusher members being in directly opposed relationship to form pairs of pusher members, (k) means for actuating said carrier means to syn-chronously engage said pusher member pairs with said pusher bars extending from opposite sides of said body means, to move said trolley axially of said guide track, (l) said body means pivoting upwardly with respect to said wheels when traversing the inclined portion of said guide track resulting from said load carrying means being under load, (m) said pusher member pairs coacting with said pusher bars extending from opposite sides of said body means to resist the upward pivotal movement of said body when traversing the inclined portion of said guide track, and (n) whereby torsional stresses and frictional losses are minimized.

Classifications:

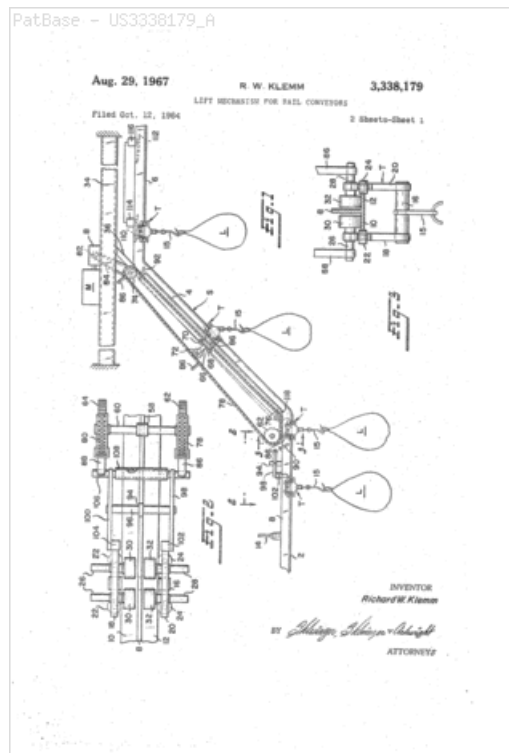
International (IPC 8-9): B61B10/02 B65G19/02 (Advanced/Invention);
B61B10/00 B65G19/00 (Core/Invention)

International (IPC 1-7): B65G19/02

CPC: B61B10/025 B65G19/025

European: B61B10/02D B65G19/02B

US: 101/112 101/178 104/171 104/172.4 104/178 104/93

**Family:**

Publication number	Publication date	Application number	Application date
US3338179 A	19670829	US19640403133	19641012

Priority:

US19640403133 19641012

Probable Assignee: KLEMM RICHARD W

Assignee(s): (std): KLEMM RICHARD W

Inventor(s): (std): KLEMM RICHARD W

Title: FRICTION DRIVE ASSEMBLY

Abstract: (Claim 1) 1. In a friction drive system for propelling a rail suspended conveyor means through a fixed path, said system having a flexible tension member coupled to said conveyor means, friction drive assemblies positioned at spaced locations around the fixed path for frictionally engaging and pulling said tension member, the improvement in each of said friction drive assemblies comprising: a. two rotatably driven friction drive members, each of said drive members being mounted from separate support means on opposite sides of said tension member. each of said support means being mounted for pivotal movement about a common axis toward and away from said tension member, said drive members positioned so as to squeeze said tension member when it is therebetween whereby said drive members can frictionally drive said tension member when said drive members are rotatably driven in opposite direction; and b. adjustment means coupled to both of said support means for changing the spacing between said drive members by moving at least one of said support means about said common pivotal axis whereby the amount of nonnal force with which said drive members contact said tension member can be varied.

Classifications:

International (IPC 8-9): B65G17/02 B65G17/20 (Advanced/Invention);
B65G17/00 B65G17/20 (Core/Invention)

International (IPC 1-7): B65G23/22 B65G23/32

CPC: B65G17/20 B65G17/02 B65G2201/04

European: B65G17/00 B65G17/02 B65G17/20 L65G201/04
L65G812/02F2B2B

US: 198/203 198/819 198/835

Patented Oct. 13, 1970

3,533,499

Sheet 1 of 2

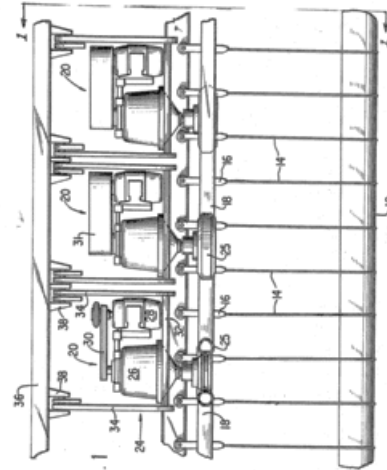


FIG. 1

 INVENTOR
 ANDREW J. HARKESS
 BY *John D. Boas*
 ATTORNEY
Family:

Publication number	Publication date	Application number	Application date
US3533499 A	19701013	US19680730218	19680520

Priority:

US19680730218 19680520

Probable Assignee:

HEWITT ROBINS INC

Assignee(s): (std):

HEWITT ROBINS INC

Assignee(s):

HEWITT ROBINS CORP

Inventor(s): (std):

HARKESS ANDREW J

Inventor(s):

ANDREW J HARKESS

4) Family number: 18272611 (US3663052A)

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Title: APPARATUS FOR PIVOTABLY MOUNTING A LOAD CONTAINER AT A TRAVELLING CARRIAGE OF OVERHEAD CONVEYORS OR THE LIKE

Abstract: An apparatus for the pivotable mounting of a load container at a travelling carriage or similar mechanism of overhead conveyors or the like such that the load container always is suspended vertically or perpendicularly independent of the position of the travelling carriage. The inventive apparatus embodies two support holders arranged at the load container and two swivel or hinge joint devices arranged at the suspension mechanism of the travelling carriage. Each swivel or hinge joint mechanism embodies at least two components which are rotatable relative to one another, wherein one component is fixed with the suspension mechanism of the traveling carriage and the other free component is at least partially enclosed by the associated support holder. These components of each swivel joint mechanism and the associated support holder are constructed in such a way that the suspended load container is centered with respect to the suspension mechanism in two directions which are approximately perpendicular to one another.

Classifications:

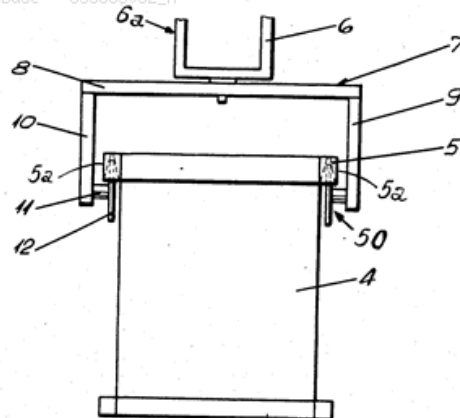
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 B65G17/30 (Core/Invention)

International (IPC 1-7): B61B12/00 B61B3/00 B61B7/00 B61B7/10
 B65D51/00 B65D90/54 B65G17/16 B65G17/20 B65G17/42 B65G65/52
 B65G9/00

CPC: B65G17/485 B65G2201/02

European: B65G17/48B L65G201/02

US: 212/130 212/335 294/119.4 294/68 294/68.1 294/68.26 294/73



Family:

Publication number	Publication date	Application number	Application date
AT314600 B	19740410	AT19700003695	19700422
BE750149 A	19701016		00000000
BE750149 A1	19701016		19700508
CA937960 A1	19731204	CA19700082333	19700508
CH507828 A	19710531	CH19690007172	19690509
DE1964574 A1	19701217	DE19691964574	19691223
DE1964574 B2	19751204	DE19691964574	19691223
DE1964574 C3	19760722	DE19691964574	19691223
DE6949687 U	19750605	DE19690449687U	19691223
FR2047400 A5	19710312	FR19700016596	19700506
GB1313887 A	19730418	GB19700022736	19700511
NL7006800 A	19701111	NL19700006800	19700511
SE370687 B	19741028	SE19700006250	19700506
US3663052 A	19720516	US19700034757	19700505

Priority:

CH19690007172 19690509

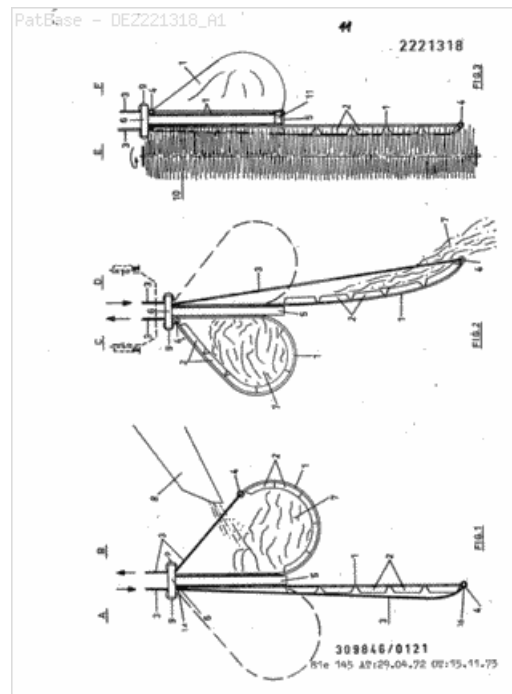
Probable Assignee: VON ROLL AG**Assignee(s):** (std): VON ROLL AG ; VON ROLL AG CH ; VON ROLL GERLAFINGEN SCHWEIZ AG**Assignee(s):** VON ROLL AG GERLAFINGEN SCHWEIZ ; EUGEN SCHURCH ; VON ROLL A G A GERLAFINGEN SUISSE**Inventor(s):** (std): SCHUERCH E ; SCHUERCH EUGEN DIPL ING ; SCHURCH EUGEN ; SCHUERCH E CH ; EUGEN SCHUERCH DIPL MASCH ING**Inventor(s):** EUGEN SCHURCH ; SCHUERCH EUGEN DIPL ING GERLAFINGEN SCHWEIZ**5) Family number: 18051474 (DE2221318A1)**

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Title: BEHAELTER ZUM FOERDERN VON MASSENGUETERN CONTAINER TO PROMOTE FROM MASSENGUETERN (Machine translation)

Abstract: Source: DE2221318A1 [DE] (Claim1) Foerdergutbehaelter zum Transport von Massenguetern, dadurch gekennzeichnet, dass er aus einer flexiblen und im wesentlichen rechteckigen Bahn besteht, die mit einem im wesentlichen parallel zur Foerderrichtung liegenden Rand (14) an einem fahrbaren Traeger (5) und mit dem ihr gegenueberliegenden Rand (16) an einem an Zugorganen (3) aufgehängten Traeger (17) befestigt und dass auf dem fahrbaren Traeger (5, 6) eine Winde (12) zum Auf- und Abwickeln der genannten Zugorgane (3) angeordnet ist.

Machine translation: (Claim1) Foerdergutbehaelter to transport Massenguetern, characterized in that it consists of a flexible and substantially rectangular path, with an essentially parallel to Foerderrichtung lying edge (14) to a mobile carrier (5) and with its opposite edge (16) at one of pulling elements (3) hanged Traeger (17) and that is attached to the mobile carrier (5, 6) a winch (12) arranged for winding and unwinding of said traction elements (3).

Classifications:**International (IPC 8-9):** B61B10/02 B65G47/62 (Advanced/Invention); B61B10/00 B65G47/60 (Core/Invention)**International (IPC 1-7):** B65G17/20**CPC:** B61B10/025 B65G47/62**European:** B61B10/02D B65G47/62**Family:**

Publication number	Publication date	Application number	Application date
DE2221318 A1	19731115	DE19722221318	19720429

Priority:

DE19722221318 19720429

Probable Assignee: JUNG GMBH LOKOMOTIVFAB ARN
Assignee(s): (std): JUNG GMBH LOKOMOTIVFAB ARN
Assignee(s): ARN JUNG LOKOMOTIVFABRIK GMBH
Inventor(s): (std): STAHL LOTHAR

6) Family number: 1067372 (US3807314A)

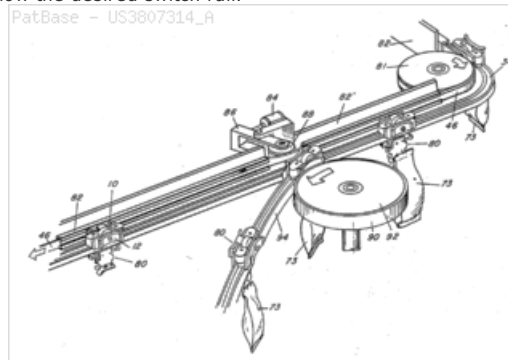
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Title: MAGNETIC TROLLEY CONVEYOR SYSTEM

Abstract: A conveyor system has trolleys propelled by the friction of a non-magnetic moving belt and the attractive force of a magnet acting through the belt to a stationary metal keeper plate behind each moving belt. Trolleys are switched between rails by means of a solenoid actuated lever roller, operatively positioned behind the driving belt, which pushes the trolley away from its keeper toward a ferrous sheave that has a non-magnetic belt thereon. A magnet on the sheave side of the trolley attracts the trolley toward the sheave and causes the guide rollers of the trolley to follow the desired switch rail.

Classifications:

International (IPC 8-9): B23Q7/14 B60M7/00 B65G17/20 B65G19/02 B65G21/20 (Advanced/Invention); B23Q7/14 B60M7/00 B65G17/20 B65G19/00 B65G21/20 (Core/Invention)
International (IPC 1-7): B60M7/00
CPC: B23Q7/1426 B60M7/00 B65G17/20 B65G19/025 B65G21/2009
European: B23Q7/14K B60M7/00 B65G17/20 B65G19/02B B65G21/20B L65G812/02A3P2
US: 104/14.8R 104/165 104/172.4 104/288 104/88.01 104/93 104/96 198/370.13 198/465.4 198/598



Family:

Publication number	Publication date	Application number	Application date
US3807314 A	19740430	US19730346505	19730330

Priority:

US19730346505 19730330

Probable Assignee: US ARMY
Assignee(s): (std): US ARMY
Assignee(s): ARMY US
Inventor(s): (std): SLEMMONS A
Inventor(s): SLEMMONS A US

7) Family number: 6753205 (US4079840A)

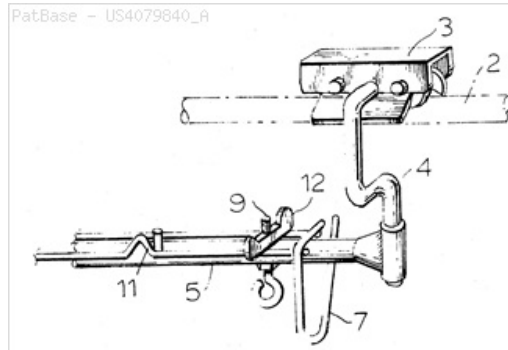
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Title: Clothes hanger bridle for a garment trolley bar

Abstract: A clothes hanger bridle for a garment trolley bar is provided for the purpose of preventing displacement in transit of hanger-hung garments from said trolley bar.

Classifications:

International (IPC 8-9): A47F7/19 B65D33/14 B65G9/00 (Advanced/Invention); A47F7/19 B65D33/14 B65G9/00 (Core/Invention)
International (IPC 1-7): A47F5/00 B65D33/14
CPC: A47F7/19 B65G9/002 B65G2201/0229
European: A47F7/19 B65G9/00 B65G9/00B L65G201/02D
US: 150/5 206/287 211/124 211/7 383/22 383/23 383/92



Family:

Publication number	Publication date	Application number	Application date
CA1101376 A1	19810519	CA19790319661	19790115
US4079840 A	19780321	US19760730197	19761006
US4140163 A	19790220	US19780887711	19780317

Priority:

US19760730197 19761006 US19780887711 19780317 CA19790319661 19790115

Probable Assignee: USNER DANIEL C
Assignee(s): (std): USNER DANIEL C
Assignee(s): DUREX PRODUCTS INC ; FIRST BANK NATIONAL ASSOC ; FIRST BANK NATIONAL ASSOCIATION
Inventor(s): (std): USNER DANIEL C
Agent(s): SMART AND BIGGAR

8) Family number: 2029253 (US4727979A)

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Title: Conveyor hanger with a plurality of movable grip elements

Abstract: A hanger for use with a conveyor in a garment making plant or the like for holding limp sheet material includes a hanger rod for attachment to a conveyor trolley and a hanger body carrying, and forming in part, a plurality of grippers, each capable of holding a workpiece unit to the body. Each gripper is made up of a stationary gripping face on part of the hanger body and a grip element supported for movement along a path giving it a wedging action on a work unit inserted in the gripper when the grip element is urged downwardly by the weight of the work unit and its engagement therewith.

Classifications:

International (IPC 8-9): B61B10/02 B65G17/20 B65G19/02 B65G35/00 B66C1/48 (Advanced/Invention)

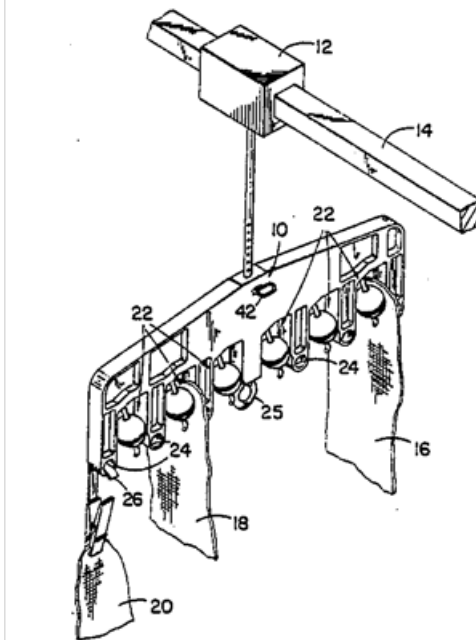
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CPC: B65G19/025 B65G2201/0229

European: B65G19/02B L65G201/02D

US: 198/803.3 198/803.7 294/103.1 294/143 294/81.6

PatBase - US4727979_A



Family:

Publication number	Publication date	Application number	Application date
DE3533496 A1	19860327	DE19853533496	19850917
DE3533496 C2	19880929	DE19853533496	19850917
FR2570356 A1	19860321	FR19850013695	19850916
FR2570356 B1	19910412	FR19850013695	19850916
GB2164628 A1	19860326	GB19850020726	19850819
GB2164628 B2	19871202	GB19850020726	19850819
GB8520726 A0	19850925	GB19850020726	19850819
JP1026961 B4	19890526	JP19850205184	19850917
JP1543275 C3	19900215	JP19850205184	19850917
JP61075720 A2	19860418	JP19850205184	19850917
US4727979 A	19880301	US19850794630	19851104

Priority:

US19840651425 19840917

Probable Assignee: GERBER GARMENT TECHNOLOGY INC

Assignee(s): (std): GERBER GARMENT TECHNOLOGY INC

Assignee(s): GERBER GARMENT TECHNOL INC ; GERBER GARMENT TECHNOLOGY INC A CORP OF CT ; GERBER SCIENTIFIC INC ; GERBER SCIENTIFIC INT INC ; GERBER COBURN OPTICAL INC ; GERBER GARMENT TECHNOLOGY INC SOUTH WINDSOR CONN US ; ABLECO FINANCE LLC AS COLLATERAL AGENT ; ABLECO FINANCE LLC COLLATERAL AGENT AS ; FLEET CAPITAL CORP ; CITIZENS BANK OF MASSACHUSETTS ; GAABAA GAAMENTO TEKUNOROJII INC ; FLEET CAPITAL AGENT AS CORP

Inventor(s): (std): NYMARK ROALD P ; OSTHUS HAROLD ; PEARL DAVID R ; RAY RICHARD P ; ROORENSU ESU URUFUSON ; VICKERS DAVID ; WOLFSON LAWRENCE S

Inventor(s): LAWRENCE S WOLFSON ; S WOLFSON LAWRENCE

9) Family number: 3082643 (US4848538A)

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Title: Carrier and variable position carrier body

Abstract: A hanger for use in a conveyorized system for transporting limp sheet material has a gripper assembly for quick loading and unloading of a unit of work material onto or off of the hanger and includes a longitudinally slidable gripping element cooperating with a fixed gripping surface urged toward the fixed surface by biasing device and is selectively actuated by fingertip pressure exerted on two laterally outwardly extending flanges respectively extending from a body portion supporting the gripping element and a top portion of the gripping element. The hanger may employ a carrier supporting a plurality of gripper assemblies oriented in a spaced relationship with one another and having means by which the orientation of each of the gripper assemblies may be changed.

Classifications:

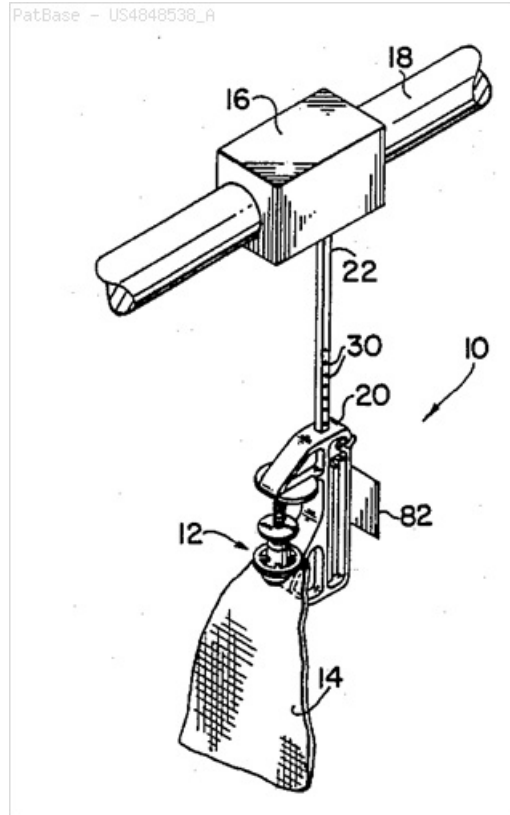
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International (IPC 1-7): A41H43/02 B65G17/20 B65G17/32 B65G17/46 B65G19/02 B65G35/00 B65G47/90 D06F57/00

CPC: B65G17/323 B65G19/025 B65G2201/02 B65G2201/0229

European: B65G17/32B B65G19/02B L65G201/02 L65G201/02D

US: 198/678.1 198/687.1 198/803.7 294/103.1 294/81.6



Family:

Publication number	Publication date	Application number	Application date
DE3915054 A1	19900111	DE19893915054	19890508
DE3915054 C2	19911219	DE19893915054	19890508
DE3943574 C2	19921210	DE19893943574	19890508
FR2633908 A1	19900112	FR19890007161	19890531
FR2633908 B1	19940729	FR19890007161	19890531
GB2220405 A1	19900110	GB19890010208	19890504
GB2220405 B2	19930210	GB19890010208	19890504
GB2253832 A1	19920923	GB19920011508	19920601
GB2253832 B2	19930210	GB19920011508	19920601
GB8910208 A0	19890621	GB19890010208	19890504
GB9211508 A0	19920715	GB19920011508	19920601
JP2033019 A2	19900202	JP19890143940	19890606
JP2134133 Y	19971126	JP19940000597U	19890606
JP6082022 U1	19941125	JP19940000597U	19940214
JP8001209 Y2	19960117	JP19940000597U	19890606
JP8001209 Y2	19960117	JP19940000597U	19940214
US4848538 A	19890718	US19880216094	19880707
US4925015 A	19900515	US19890342229	19890421

Priority:

US19880216094 19880707 US19890342229 19890421 GB19890010208 19890504
DE19893915054 19890508

Probable Assignee: GERBER GARMENT TECHNOLOGY INC

Assignee(s): (std): GERBER GARMENT TECHNOLOGY INC

Assignee(s): GERBER GARMENT TECHNOLOGY INC TOLLAND CONN US ; GERBER SCIENTIFIC INC ; GERBER SCIENTIFIC INT INC ; ABLECO FINANCE LLC COLLATERAL AGENT AS ; FLEET CAPITAL AGENT CORP AS ; FLEET CAPITAL CORP ; GERBER COBURN OPTICAL INC ; GERBER GARMENT TECHNOL INC

Inventor(s): (std): HARORUDO ERU OSUSASU ; OSTHUS HAROLD L ; ROBAATO EMU BUAIDA ; VAIDA ROBERT M

Inventor(s): HAROLD L OSTHUS ; ROBERT M VAIDA

Title: Apparatus for manipulating garment hangers

Abstract: Apparatus for transferring selected numbers of garment hangers from a downwardly sloping rail onto horizontal rod- or bar-shaped carriers of trolleys which are suspended on and advance along an overhead track has a singularizing device which is adjacent the discharge end of the rail and is operable to permit a selected number of hangers to advance onto the adjacent carrier while the respective trolley is pushed or pulled through a hanger receiving station. The trolleys are advanced by a chain conveyor the motor of which is started in response to signals from sensors denoting that the front end of the trolley has assumed a predetermined position with reference to the receiving station as well as that the conveyor for the trolleys assumes a predetermined position. Additional sensors are provided to detect the trailing ends of successive trolleys, to monitor the hangers upstream of the singularizing device and to generate signals in response to detection of hangers which have advanced beyond the singularizing device.

Classifications:

International (IPC 8-9): B65G47/61 (Advanced/Invention)

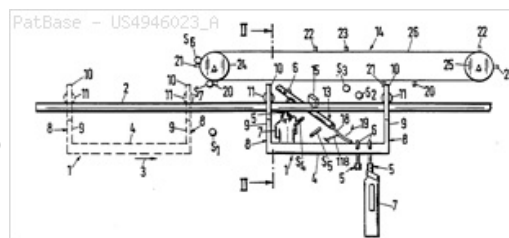
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B65G67/04 B65G9/00 D06F67/04

CPC: B65G47/61 B65G2201/0229

European: B65G47/61 L65G201/02D

US: 198/419.1 198/431 198/463.4 198/464.3 198/465.4 414/397 414/799



Family:

Publication number	Publication date	Application number	Application date
CH678517 A	19910930	CH19890001832	19890517
DE3819102 C1	19891012	DE19883819102	19880604
ES2014141 AF	19900616	ES19890001905	19890601
US4946023 A	19900807	US19890360402	19890602

Priority:

DE19883819102 19880604

Probable Assignee: JENNEWEIN MANFRED A 6082 MOERFELDEN WALLDORF DE

Assignee(s): (std): JENNEWEIN MANFRED A

Assignee(s): JENNEWEIN MANFRED A 6082 MOERFELDEN WALLDORF DE ; JENNEWEIN MANFRED A MEISENWEG 10 D 6082 MORFELDEN ; MANFRED A JENNEWEIN

Inventor(s): (std): HEINOLD HANS ; RAU JOSEF ; RAU JOSEPH

Inventor(s): RAU JOSEF 6148 HEPPENHEIM DE ; HEINOLD HANS 6057 DIETZENBACH DE

Title: Variable height workstation and system

Abstract: A variable height workstation includes a trolley delivery apparatus for moving a rail section from a gap formed in a subsidiary loop rail to a workstation located remotely from the loop. A pivotal cam moves with the rail section and arrests travel of a trolley on the movable rail section so that rail section may be moved toward the workstation while carrying the trolley. As the rail section moves upwardly toward the gap formed in the subsidiary loop, the cam rotates and accelerates the trolley off the rail section. The trolley delivery apparatus is employed in a subsidiary loop system whereby a first escapement device is located upstream of it to advance selected one of the diverted trolleys onto the moveable rail section. The pivotal cam associated with the moveable rail section in turn advances the involved trolley off the rail section downwardly on a downstream rail portion toward a second escapement device whereupon trolleys may again collect and are subsequently advanced at intervals onto a transfer slide for carriage into an elevator upwards toward the main rail of the system.

Classifications:

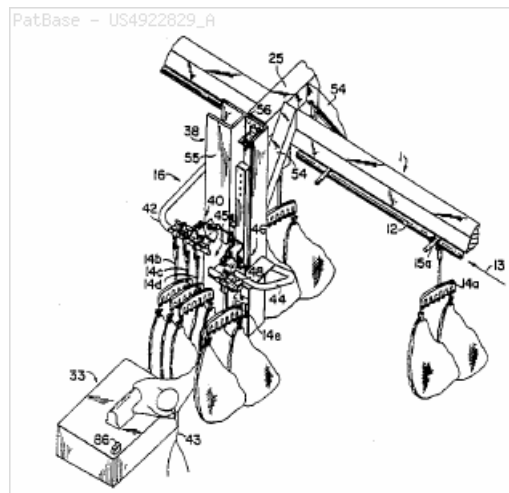
International (IPC 8-9): B65G19/02 (Advanced/Invention)

International (IPC 1-7): B61B3/00

CPC: B65G19/025 B65G2201/0229

European: B65G19/02B L65G201/02D

US: 104/127 104/128 104/129



Family:

Publication number	Publication date	Application number	Application date
US4922829 A	19900508	US19890400290	19890829

Priority:

Probable Assignee: GERBER GARMENT TECHNOLOGY INC
Assignee(s): (std): GERBER GARMENT TECHNOLOGY INC
Inventor(s): (std): BILLINGS LARRY ; EVENZON VLADIMIR ; KUCHTA RICHARD

12) Family number: 6203610 (DE3840521A1)

© PatBase

Title: Automatically operated overhead conveying system for piece goods

Abstract: In order to automate an overhead system for conveying piece goods, especially for conveying laundry, in an optimum manner, and in particular to improve the separating mechanisms thereof, turnstiles are arranged on a conveying track in order to stop, separate and accelerate a conveying trolley which runs on the conveying rails of the conveying track.

Classifications:

International (IPC 8-9): B65G47/88 B65G9/00

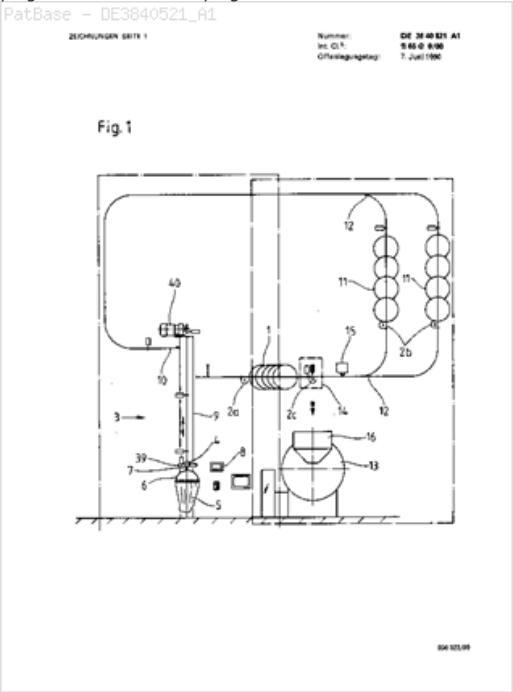
D06F95/00 (Advanced/Invention);

B65G47/88 B65G9/00 D06F95/00 (Core/Invention)

International (IPC 1-7): B61B13/12 B61B3/00 B65G9/00 D06F93/00
D06F95/00 E01B25/24

CPC: B65G9/00 B65G9/006 B65G47/8823 B65G2205/04 D06F95/00

European: B65G47/88 B65G47/88A3 B65G9/00 B65G9/00M D06F95/00
L65G205/04



Family:

Publication number	Publication date	Application number	Application date
DE3840521 A1	19900607	DE19883840521	19881201
DE3840521 C2	19920806	DE19883840521	19881201
FR2644124 A1	19900914	FR19890015565	19891127
NL8902967 A	19900702	NL19890002967	19891201

Priority:

DE19883840521 19881201

Probable Assignee: HEINEMANN C A GMBH

Assignee(s): (std): HEINEMANN C A GMBH

Assignee(s): HEINEMANN GMBH C A ; C A HEINEMANN GMBH 4000 DUESSELDORF DE ; C A HEINEMANN GMBH TE DUESSELDORF BONDSREPUBLIC D ; C A HEINEMANN GMBH TE DUESSELDORF BONDSREPUBLIC DUTSLAND

Inventor(s): (std): BAYSAL M DIPL ING ; KARAYOL S DIPL ING ; BAYSAL M

Inventor(s): KARAYOL S DIPL ING 4044 KAARST DE ; M BAYSAL ; KARAYOL S

13) Family number: 28640936 (US5142993A)

© PatBase

Title: CONVEYING MEANS

Abstract: A conveying unit for a suspension conveying system having an elevated rail which unit includes two roller supports for rolling on a rail and a supporting element connected to the roller supports, on which the object to be conveyed are to be disposed. A coupling is provided in order to be able to couple the conveying unit to other conveying unit. In order to be able to better adapt the conveying unit to special operating conditions the coupling is arranged directly on the roller support.

Classifications:

International (IPC 8-9): B61B3/00 B65G17/24 B65G35/00

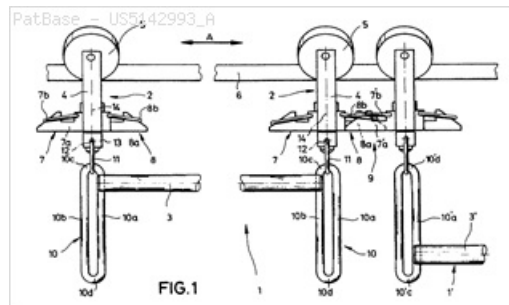
B65G9/00 (Advanced/Invention);

B61B3/00 (Core/Invention)

International (IPC 1-7): B61B10/00 B61B3/00 B65G17/24 B65G35/00
B65G9/00

CPC: B65G9/002 B65G2201/0229

European: B65G9/00 B65G9/00B L65G201/02D

**Family:**

Publication number	Publication date	Application number	Application date
AT100058 E	19940115	AT19910103703T	19910311
CA2037825 AA	19910917	CA19912037825	19910308
CS9100693 A3	19920115	CS19910000693	19910315
CZ278730 B6	19940518	CS19910000693	19910315
DE59100828 D1	19940224	DE19915000828	19910311
DE9003123 U1	19910718	DE19900003123U	19900316
EP0449024 A1	19911002	EP19910103703	19910311
EP0449024 B1	19940112	EP19910103703	19910311
JP3214863 B2	20011002	JP19910076918	19910315
JP5254620 A2	19931005	JP19910076918	19910315
US5142993 A	19920901	US19910668996	19910313

Priority:

DE19900003123U 19900316 DE19909003123U 19900316 CA19912037825 19910308
 EP19910103703 19910311 EP19910103703 19910311 DE19915000828 19910311

Probable Assignee: WF LOGISTIK GMBH

Assignee(s): (std): L S L ROGISUTEIKU GMBH AND CO ; RSL LOGISTIK AND CO GMBH ; RSL LOGISTIK G M B H AND CO ; RSL LOGISTIK GMBH AND CO ; RSL LOGISTIK GMBH U CO ; RSL LOGISTIK GMBH UND CO

Assignee(s): RSL LOGISTIK GMBH AND CO 86899 LANDSBERG DE ; RSL LOGISTIK GMBH AND CO A CORP OF GERMANY ; WF LOGISTIK GMBH ; VEIT TRANSPO GMBH 8910 LANDSBERG DE ; RSL LOGISTIK GMBH ; ROBL RUDOLF ; ROBU JOHANN

Inventor(s): (std): ROBL RUDOLF ; ROBL RUDOLF ING ; ROBU JOHANN

Inventor(s): ROBU JOHANN W 8037 OLCHING DE ; ROBL RUDOLF W 8910 LANDSBERG LECH DE

Agent(s): RICHES MCKENZIE AND HERBERT LLP

Designated states: AT CH DE FR GB IT LI

14) Family number: 17979525 (GB2243816A)

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Title: Apparatus for feeding items of laundry to a mangle or the like

Abstract: Apparatus for feeding items of laundry (10) e.g. to a mangle feed machine (12) of a mangle, by means of a peg (18) from a loading station (13) via at least one vertical (or inclined) conveyor route (14, 16) and at least one gravity conveyor route (15) to a removal station (17) before the mangle feed machine (12), is characterised in that the peg (18) is in connection, at least in the region of a vertical conveyor route (14, 16), with a continuous conveyor chain (20) running in a profile rail (21).

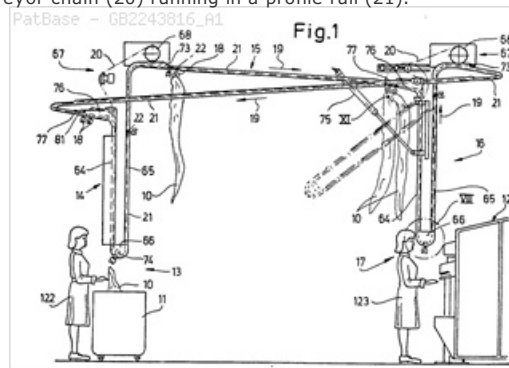
Classifications:

International (IPC 8-9): B65G17/20 B65G19/02 D06F67/04 D06F95/00 (Advanced/Invention)

International (IPC 1-7): B61B10/02 B65G17/20 B65G17/24 B65G17/32 B65G21/20 B65G47/61 D06F55/00 D06F67/04 D06F71/38 D06F93/00 D06F95/00 F16B2/06

CPC: B65G17/20 B65G19/025 B65G2201/02 B65G2201/0229 D06F95/00

European: B65G17/20 B65G19/02B D06F95/00 L65G201/02 L65G201/02D

**Family:**

Publication number	Publication date	Application number	Application date
DE4014877 A1	19911114	DE19904014877	19900509
DE4014877 C2	19931111	DE19904014877	19900509
DE4042375 A1	19911205	DE19904042375	19900509
DE4042375 C2	19951019	DE19904042375	19900509
DE9007518 U1	19920402	DE19900007518U	19900509
FR2661926 A1	19911115	FR19910005586	19910507
FR2661926 B1	19970124	FR19910005586	19910507

GB2243816 A1	19911113	GB19910008970	19910426
GB2243816 B2	19941130	GB19910008970	19910426
GB2274875 A1	19940810	GB19940001670	19940128
GB2274875 B2	19941123	GB19940001670	19940128
GB9108970 A0	19910612	GB19910008970	19910426
GB9401670 A0	19940323	GB19940001670	19940128
JP4231100 A2	19920819	JP19910102572	19910508
JP7067520 B4	19950726	JP19910102572	19910508

Priority:

DE19904014877 19900509 DE19904042375 19900509 GB19910008970 19910426

Probable Assignee: KANNEGIESSER H GMBH CO

Assignee(s): (std): KANNEGIESSER H GMBH CO ; KANNEGIESSER MARTIN

Assignee(s): MARTIN KANNEGIESSER ; KANNEGIESSER GMBH CO HERBERT ; HERBERT KANNEGIESSER GESELLSCHAFT MIT BESCHRANKTER HAFTUNG AND COMPAGNIE ; HERBERT KANNEGIESSER GMBH AND CO ; HERBERT KANNEGIESSER GMBH AND CO 32602 VLOTHO DE ; HERBERT KANNEGIESSER GMBH AND CO 4973 VLOTHO DE

Inventor(s): (std): YUURUGEN JIIRAAMAN ; SIELERMANN JUERGEN DIPL ING ; SIELERMANN JUERGEN ; FURIIDOHERUMU MEERUHOFFU ; FRIEDHELM MEHRHOFF ; SIELERMANN JURGEN ; MEHRHOFF FRIEDHELM ; JURGEN SIELERMANN

Inventor(s): JUERGEN SIELERMANN ; MEHRHOFF FRIEDHELM 4955 HILLE DE ; SIELERMANN JUERGEN DIPL ING FH 4971 HUELLHORST DE ; SIELERMANN JUERGEN DIPL ING FH 4971 HUELLHORST D

15) Family number: 17996204 (US5878867A)

© PatBase

Title: Carrier device for a hanging conveyor

Abstract: A conveyor pocket for a hanging conveyor system, in particular for the transport of conveyor articles hanging on hangers, having a pawl (3) which is arranged swingably in a base body (2) and is provided for holding in each case only one carrier on its hook-shaped head region (hook 20), the pawl (3) having an extension (4) protruding from the base body (2) for the swinging of the pawl (3) and thus the opening of the conveyor pocket (1), is characterized by the fact that the pivot axis (7) of the pawl (3) is arranged behind the resting point (15) of the hook (20) on the pawl (3) as seen in direction of transport (T).

Classifications:

International (IPC 8-9): B65G35/00 B65G47/61 (Advanced/Invention);

B65G35/00 B65G47/60 (Core/Invention)

International (IPC 1-7): B65G17/20 B65G17/32 B65G35/00 B65G47/36 B65G47/61

CPC: B65G47/61 B65G2201/0229

European: B65G47/61 L65G201/02D

US: 198/486.1 198/680 294/82.31

PatBase - US5878867_A

U.S. Patent Mar. 9, 1999 Sheet 1 of 4 5,878,867

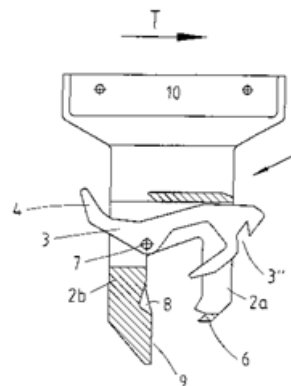


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
DE19614905 A1	19971106	DE19961014905	19960416
DE19614905 C2	19980319	DE19961014905	19960416
DE59707465 D1	20020718	DE19975007465	19970325
EP0802132 A1	19971022	EP19970104989	19970325
EP0802132 B1	20020612	EP19970104989	19970325
JP10035853 A2	19980210	JP19970097588	19970415
US5878867 A	19990309	US19970834313	19970415

Priority:

DE19961014905 19960416 DE19961014905U 19960416 DE19975007465 19970325

Probable Assignee: DURKOPP ADLER AG

Assignee(s): (std): DUERKOPP ADLER AG
Assignee(s): DUERKOPP ADLER AG 33719 BIELEFELD DE ; DUERKOPP ADLER AKTIENGESELLSCHAFT ; DURKOPP ADLER AG
Inventor(s): (std): SCHNEUING RALF
Inventor(s): SCHNEUING RALF 33803 STEINHAGEN DE
Designated states: DE FR GB IT

16) Family number: 14984641 (US5697508A)

© PatBase

Title: Trolley and bag assembly for transporting hanger-hung garments

Abstract: A trolley and bag assembly adapted to transport hanger-hung garments on overhead rails from an initial point to other points, the bag protectively shrouding the transported garments. The trolley includes a pair of rolling sheaves that ride on the rails and a spaced pair of side arms depending from the sheaves to support a horizontal load bar onto which is hooked a set of hanger-hung garments. Bridging the side arms is a retractable hold-down bar which when raised above the load bar then permits the hangers to be hooked onto the load bar, and when lowered then clamps the hooks of the hangers so that the garments cannot be dislodged from the trolley.

Classifications:

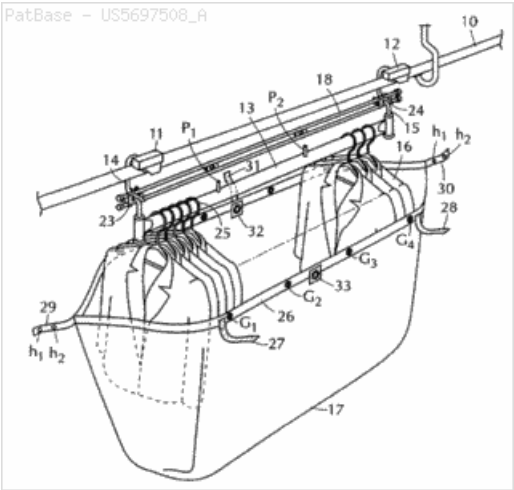
International (IPC 8-9): A47G25/06 B65G9/00 (Advanced/Invention)

International (IPC 1-7): A47F5/00

CPC: A47G25/0692 B65G9/002 B65G2201/0229

European: A47G25/06K B65G9/00 B65G9/00B L65G201/02D

US: 206/286 211/124 211/162



Family:

Publication number	Publication date	Application number	Application date
■ US5697508 A	19971216	US19960685409	19960724

Priority:

US19960685409 19960724

Probable Assignee: A RIFKIN AND CO

Assignee(s): (std): RIFKIN AND CO A

Assignee(s): A RIFKIN AND CO

Inventor(s): (std): HUTNICK JOHN ; RIFKIN ARNOLD S ; WILLIAMS GEORGE W

17) Family number: 28232137 (US2002073874A)

© PatBase

Title: RAIL GUIDABLE CONVEYING DEVICE AND APPARATUS FOR CONVEYING PRINTED PRODUCTS

Abstract: A rail guidable conveying device for conveying sheet-like products (21) in a conveying direction (F), having a guide part (2), a carrying part (3) which is arranged on the guide part and is configured for retaining a product, and a coupling part (4), which can be magnetically coupled to a drive means (5) and is configured such that the strength of the coupling to the drive means is variable. The invention also relates to a conveying apparatus having a drive means and a plurality of the conveying devices.

Classifications:

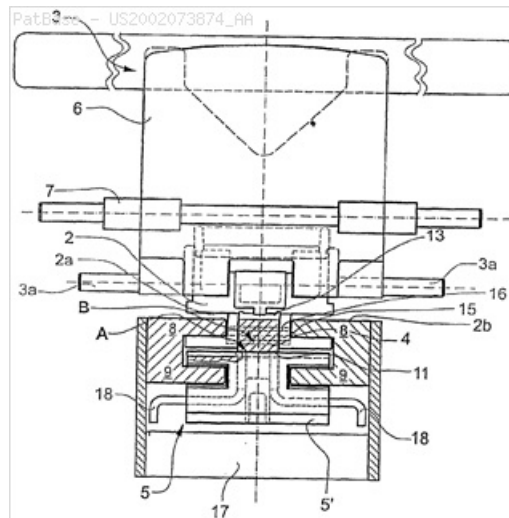
International (IPC 8-9): B65G19/02 (Advanced/Invention); B65G19/00 (Core/Invention)

International (IPC 1-7): B61J1/06 B65G19/02 B65G29/00

CPC: B65G19/02 B65G19/025 B65H29/003 B65H2405/55

European: B65G19/02 B65G19/02B

US: 104/96 198/687.1 198/867.13 271/204



Family:

Publication number	Publication date	Application number	Application date
AT273216 E	20040815	AT20010128207T	20011128
DE50103205 D1	20040916	DE20015003205	20011128
EP1215142 A1	20020619	EP20010128207	20011128
EP1215142 B1	20040811	EP20010128207	20011128
US2002073874 AA	20020620	US20010024302	20011217
US6742648 BB	20040601	US20010024302	20011217

Priority:

CH20000002463 20001218

Probable Assignee: FERAG AG

Assignee(s): (std): FERAG AG

Assignee(s): FERAG AG HINWIL ; FERAG HINWIL AG ; FER AG

Inventor(s): (std): HONEGGER WERNER

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

18) Family number: 30568398 (US2004089623A)

© PatBase

Title: TROLLEY DEVICE AND METHOD FOR TRANSPORTING ARTICLES ALONG A RAIL SYSTEM

Abstract: A trolley according to the present invention is utilized to transport garments or other articles over a rail system between desired locations. The trolley includes a support member and a plurality of trolley heads each disposed at a corresponding support member end. The trolley heads each include a housing with rollers disposed therein and an arm that connects that trolley head to a corresponding end of the support member. The rollers engage a slick rail system to enable the trolley, with the support member in a generally horizontal orientation, to traverse the rail system and transport garments suspended from the support member. One of the trolley ends includes a pivoting mechanism that enables the support member to pivot or swivel with respect to the trolley arm at that end to place the support member in a generally vertical position.

Classifications:

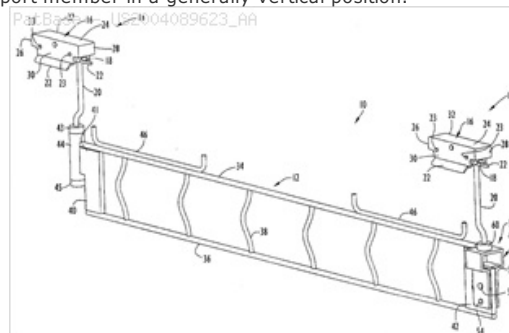
International (IPC 8-9): B65G9/00 (Advanced/Invention); B65G9/00 (Core/Invention)

International (IPC 1-7): A47F5/00 A47F5/08 B65G

CPC: B65G9/002 B65G2201/0229

European: B65G9/00 B65G9/00B L65G201/02D

US: 211/113 211/119 211/119S 211/162 211/162S



Family:

Publication number	Publication date	Application number	Application date
AU2003291712 AA	20040603	AU20030291712	20031113
AU2003291712 AH	20040603	AU20030291712	20031113
US2004089623 AA	20040513	US20030351431	20030127
US6942111 BB	20050913	US20030351431	20030127
WO04043830 A2	20040527	WO2003US35042	20031113
WO04043830 A3	20040708	WO2003US35042	20031113

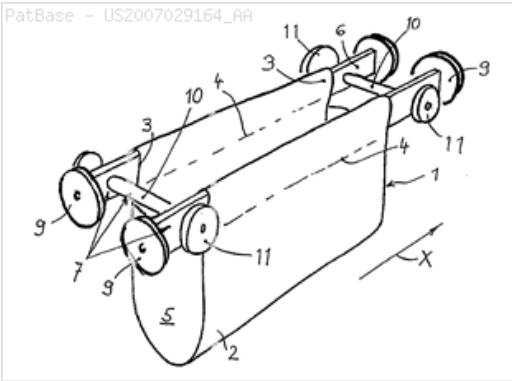
Priority:

US20020425631P 20021113

US20030351431 20030127

WO2003US35042 20031113

B65D19/44 B65G1/04 B65G35/00 B65G9/00 (Advanced/Invention);
B65D85/68 (Advanced/Non-invention);
B62D65/00 B65D19/38 B65G1/04 B65G35/00 B65G9/00 (Core/Invention);
B65D85/68 (Core/Non-invention)
International (IPC 1-7): B61B3/00 B62D65/00 B65D19/44 B65G1/04
B65G35/00 B65G9/00
CPC: B62D65/06 B62D65/18 B65D19/44 B65D2585/6882 B65G1/0457
B65G9/002 B65G2201/0294
European: B62D65/00C B62D65/00D3 B62D65/06 B62D65/18
B65D19/44 B65G1/04H B65G9/00B L65D585/68Y6C L65G201/02V
US: 198/347.1 198/347.100P



Family:

Publication number	Publication date	Application number	Application date
AT376970 E	20071115	AT20040715882T	20040301
CA2515700 AA	20050810	CA20042515700	20040301
DE10309127 A1	20040909	DE20031009127	20030228
DE202004020803 U1	20060202	DE200420020803U	20040301
DE502004005359 D1	20071213	DE200450005359T	20040301
EP1599396 A1	20051130	EP20040715882	20040301
EP1599396 B1	20071031	EP20040715882	20040301
ES2255897 T1	20060716	ES20040715882T	20040301
ES2255897 T3	20080401	ES20040715882T	20040301
MXPA05008874 A1	20051005	MX2005PA08874	20040301
US2007029164 AA	20070208	US20060547048	20060602
WO04076318 A1	20040910	WO2004EP02042	20040301

Priority:

DE20031009127 20030228 DE200420020803U 20040301 EP20040715882 20040301
WO2004EP02042 20040301

Probable Assignee: CONTEYOR MULTIBAG SYSTEMS NV

Assignee(s): (std): CONTEYOR MULTIBAG SYSTEMS N V ; CONTEYOR MULTIBAG SYSTEMS NV ; VAN BREE JOS

Assignee(s): CONTEYOR MULTIBAG SYSTEMS N V MERELBEKE ; BRADFORD CO

Inventor(s): (std): BREE JOS VAN ; JOS VAN BREE ; VAN BREE JOS ; BREE JOS V

Inventor(s): BREE JOS

Agent(s): SHAPIRO COHEN; SIMPSON AND SIMPSON PLLC

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

21) Family number: 32367249 (DE102004018569B4)

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Title: Sammeleinrichtung zum Aufnehmen von Objekten beim sortierenden Sammeln der Objekte sowie Foerdervorrichtung zum Transport von Sammelaschen

Abstract: Source: DE102004018569B4 [DE] Sammeleinrichtung zum Aufnehmen von Objekten, insbesondere von Kleidungsstuecken, beim sortierenden Sammeln der Objekte, aufweisend eine Sammeltasche (1), die im Wesentlichen ein mit einem in eine Foerdervorrichtung (31) integrierbaren Mitnahmeelement (10) versehenes Rahmengestell (2) und einen am Rahmengestell (2) haengenden Taschenbeutel (3) aufweist, wobei das Mitnahmeelement (10) und das Rahmengestell (2) relativ zueinander um eine quer zur Foerderrichtung (4) liegende Achse (9) schwenkbar sind, und wobei bei horizontaler Anordnung des Rahmengestells (2) der Taschenbeutel (3) geoeffnet und bei vertikaler Anordnung des Rahmengestells (2) der Taschenbeutel (3) zusammengefallen und im Wesentlichen geschlossen ist und wobei das Rahmengestell (2) einen vorderen Querrahmensteg (5), einen hinteren Querrahmensteg (6) und zwei seitliche Rahmenstege (7, 8) umfasst, die mit dem vorderen (5) und dem hinteren Querrahmensteg (6) in Verbindung stehen, dadurch gekennzeichnet, dass die Ecken (7a, 8a) am uebergang zwischen dem hinteren Querrahmensteg (6) und den seitlichen Rahmenstege (7, 8) zum Mitnahmeelement (10) hin angeschraegt ausgebildet sind.

Classifications:

International (IPC 8-9): B65G17/20 B65G19/02

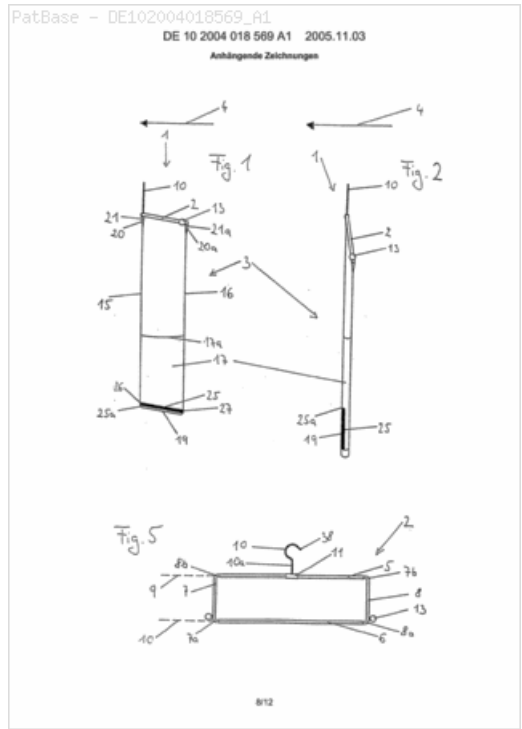
B65G47/61 (Advanced/Invention);

B65G17/20 B65G19/00 B65G47/60 (Core/Invention)

International (IPC 1-7): B65G17/20

CPC: B65G19/025 B65G47/61 B65G2201/0229

European: B65G19/02B B65G47/61 L65G201/02D



Family:

Publication number	Publication date	Application number	Application date
DE102004018569 A1	20051103	DE200410018569	20040416
DE102004018569 B4	20160609	DE200410018569	20040416

Priority:

DE200410018569 20040416

Probable Assignee: GAERTNER FRANZ

Assignee(s): (std): GAERTNER FRANZ ; PSB INTRALOGISTICS GMBH

22) Family number: 44090389 (EP2130968B1)

© PatBase

Title: Transport bag and transport assembly for a transport bag

Abstract: The transport bag (1) has two walls. The former wall is formed as a support wall (2) with a support hook (12) on its upper area and a pivoting clamp (8). The former wall has a coupling (14) on its lower area, devices for opening the coupling on its upper area, and devices for closing the coupling. The latter wall is formed as a flexible base-side-wall (3) in the lower area. The latter wall is connected with the pivoting clamp in its upper area and is provided with counter coupling units in its lower area for inclusion in the coupling. An independent claim is included for a conveying system with a conveying rail.

Classifications:

International (IPC 8-9): B07C3/08 B65G17/20 B65G17/32 B65G19/02

B65G9/00 D06F95/00 (Advanced/Invention);

B07C3/00 B07C3/02 B65G17/20 B65G17/32 B65G19/00 B65G9/00

D06F95/00 (Core/Invention)

CPC: B07C3/087 B65G9/002 B65G19/025 D06F95/004

European: B07C3/08B2 B65G19/02B B65G9/00B D06F95/00B2

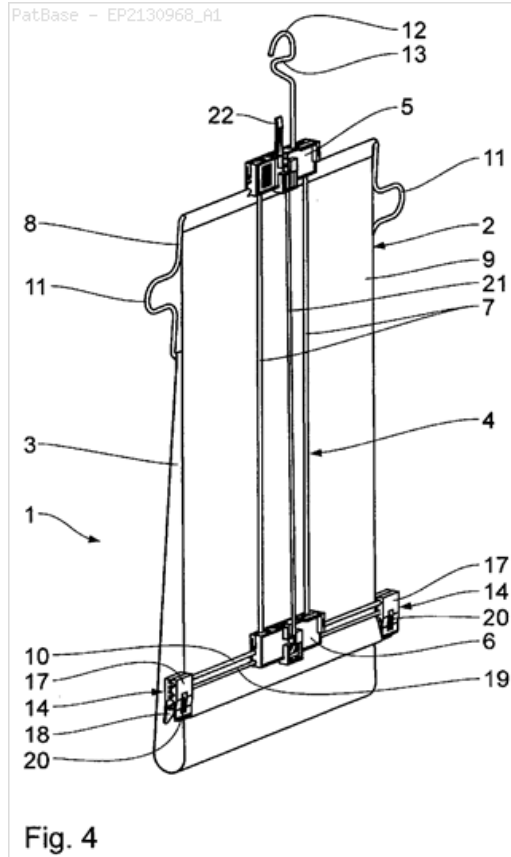


Fig. 4

Family:

Publication number	Publication date	Application number	Application date
AT481527 E	20101015	AT20090006983T	20090526
DE102008026720 A1	20091210	DE200810026720	20080604
DE502009000095 D1	20101028	DE200950000095T	20090526
EP2130968 A1	20091209	EP20090006983	20090526
EP2130968 B1	20100915	EP20090006983	20090526
ES2349907 T3	20110112	ES20090006983T	20090526

Priority:

DE200810026720 20080604

Probable Assignee: DUERKOPP FOERDERTECHNIK GMBH**Assignee(s):** (std): DUERKOPP ADLER AG ; DUERKOPP FOERDERTECHNIK GMBH ; DUERKOPP FORDERTECHNIK GMBH**Inventor(s):** (std): JANZEN PAUL**Agent(s):** RAU ALBRECHT**Designated states:** AT 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 SE SI SK TR**23) Family number: 45376384 (EP2196415B1)**

© PatBase

Title: Loading station for transport bags transported in a hanger conveyor

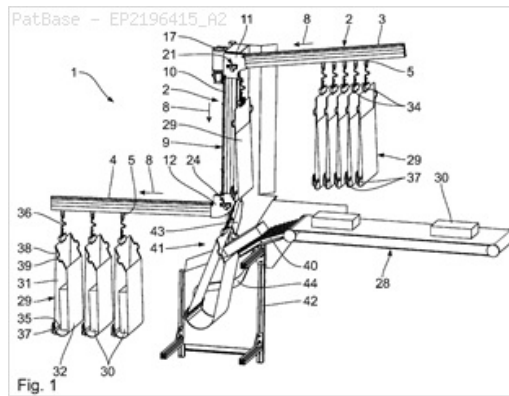
Abstract: Source: EP2196415A3 [DE] Eine Belade-Station (1) fuer in einer Haenge-Foerder-Anlage (2) transportierte Transport-Taschen (29) weist eine obere Zufuehr-Schiene (3) fuer die Transport-Taschen (29), einen sich an die Zufuehr-Schiene (3) anschliessenden Senkrecht-Foerderer (9) zum Zufuehren der Transport-Taschen (29) in eine untere Belade-Position (41), eine Einrichtung zum oeffnen der Transport-Taschen (29) in der Belade-Position (41) und eine sich an den Senkrecht-Foerderer (9) anschliessende untere Abfuehr-Schiene (4) zum Abfuehren der Transport-Taschen (29) aus der Belade-Position (41) auf.

Classifications:**International (IPC 8-9):** B65G17/20 B65G19/02 B65G47/06

B65G47/61 (Advanced/Invention);

B65G17/20 B65G47/04 (Core/Invention)

CPC: B65G19/025 B65G47/61**European:** B65G19/02B B65G47/61



Family:

Publication number	Publication date	Application number	Application date
DE102008061685 A1	20100617	DE200810061685	20081211
DE202009019092 U1	20160623	DE200920019092U	20091105
DE502009005948 D1	20130307	DE200950005948T	20091105
EP2196415 A2	20100616	EP20090175094	20091105
EP2196415 A3	20120530	EP20090175094	20091105
EP2196415 B1	20130109	EP20090175094	20091105
ES2399310 T3	20130327	ES20090175094T	20091105

Priority:

DE200810061685 20081211 EP20090175094 20091105

Probable Assignee: DUERKOPP FOERDERTECHNIK GMBH

Assignee(s): (std): DUERKOPP ADLER AG ; DUERKOPP FOERDERTECHNIK GMBH ; DUERKOPP FORDERTECHNIK GMBH

Inventor(s): (std): JANZEN PAUL

Inventor(s): JANZEN PAUL 33619

Agent(s): RAU SCHNECK AND HUEBNER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; RAU MANFRED; VALLEJO JUAN PEDRO

Designated states: AT 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 SE SI SK SM TR

24) Family number: 50639433 (US2012037272A)

© PatBase

Title: CONVEYOR INSTALLATION COMPRISING CARRIER BAGS FOR MATERIAL TO BE TRANSPORTED

Abstract: A conveyor installation comprises carrier bags for material to be transported, wherein the carrier bags are suspended from carrier dogs which are moved in a transport rail in a transport direction. At a loading and unloading station, the carrier bags are rotatable from their transport position, which is transverse to the transport direction, into a position which points in the transport direction, wherein an upper loading opening is opened at the same time. Backwards rotation of the carrier bags is caused by the force of gravity.

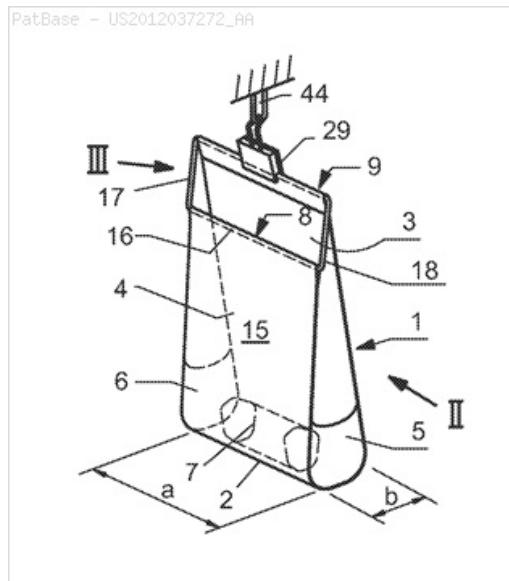
Classifications:

International (IPC 8-9): B65G17/20 B65G17/32 B65G19/02 B65G47/06 B65G47/61 B67C3/26 (Advanced/Invention)

CPC: B65G19/025 B65G47/61

European: B65G19/02B B65G47/61

US: 141/250 198/384 198/397.01 198/430 198/474.1



Family:

Publication number	Publication date	Application number	Application date
DE102010033905 A1	20120216	DE201010033905	20100810

DE502011001122 D1	20130919	DE201150001122T	20110512
EP2418160 A1	20120215	EP20110165793	20110512
EP2418160 B1	20130731	EP20110165793	20110512
ES2429151 T3	20131113	ES20110165793T	20110512
US2012037272 AA	20120216	US20110177159	20110706
US8607963 BB	20131217	US20110177159	20110706

Priority:

DE201010033905 20100810 EP20110165793 20110512

Probable Assignee: DUERKOPP FOERDERTECHNIK GMBH

Assignee(s): (std): DUERKOPP FOERDERTECHNIK GMBH ; DURKOPP FORDERTECHNIK GMBH ; JANZEN PAUL ; WEND MICHAEL

Inventor(s): (std): JANZEN PAUL ; WEND MICHAEL

Inventor(s): WEND MICHAEL 33619 ; JANZEN PAUL 33619

Agent(s): RAU SCHNECK AND HUEBNER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; RAU SCHNECK AND HUEBNER; VALLEJO JUAN PEDRO; BROWDY AND NEIMARK PLLC

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

25) Family number: 51229201 (US2012152697A)

© PatBase

Title: CONVEYOR INSTALLATION WITH CARRYING BAGS FOR PRODUCTS TO BE CONVEYED

Abstract: A conveyor installation has carrying bags, in which products to be conveyed can be transported. In order to ensure an adequate spacing of the carrying bags from one another on back-up sections, the latter have spacers, which can be adjusted between a rest position and a working position.

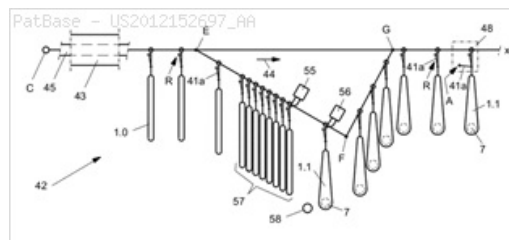
Classifications:

International (IPC 8-9): B65G17/20 B65G17/32 (Advanced/Invention)

CPC: B65G17/32 B65G47/61

European: B65G17/32 B65G47/61

US: 198/678.1 198/680



Family:

Publication number	Publication date	Application number	Application date
DE102010053590 A1	20120606	DE201010053590	20101206
US2012152697 AA	20120621	US20120399398	20120217
US8672118 BB	20140318	US20120399398	20120217

Priority:

DE201010053590 20101206 US20120399398 20120217

Probable Assignee: DUEKOPP FOERDERTECHNIK GMBH

Assignee(s): (std): DUEKOPP FOERDERTECHNIK GMBH ; DUERKOPP FOERDERTECHNIK GMBH ; DURKOPP FORDERTECHNIK GMBH ; JANZEN PAUL ; WEND MICHAEL

Inventor(s): (std): JANZEN PAUL ; WEND MICHAEL

Agent(s): BROWDY AND NEIMARK PLLC

26) Family number: 51789685 (US2012216917A)

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Title: LOADING STATION FOR TRANSPORT BAGS TRANSPORTED IN AN OVERHEAD CONVEYOR SYSTEM

Abstract: A loading station for transport bags transported in an overhead conveyor system comprises an upper supply rail for the transport bags, a vertical conveyor which adjoins the supply rail for moving the transport bags into a lower loading position, a device for opening the transport bags in the loading position and a lower discharge rail which adjoins the vertical conveyor for discharging the transport bags from the loading position.

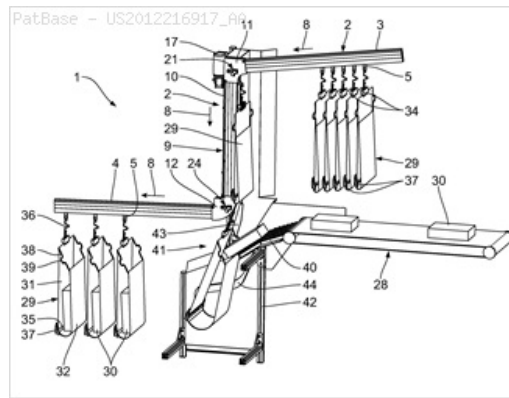
Classifications:

International (IPC 8-9): B65B43/42 B65G17/20

B65G47/06 (Advanced/Invention)

CPC: B65G9/002 B65G47/61 B65G19/025

US: 141/166 198/384 198/397.01 198/607 53/249 53/251 53/384.1



Family:

Publication number	Publication date	Application number	Application date
US2012216917 AA	20120830	US20110034273	20110224
US8490774 BB	20130723	US20110034273	20110224

Priority:

US20110034273 20110224

Probable Assignee: DUERKOPP FOERDERTECHNIK GMBH

Assignee(s): (std): DUERKOPP FOERDERTECHNIK GMBH ; DURKOPP FORDERTECHNIK GMBH ; JANZEN PAUL

Inventor(s): (std): JANZEN PAUL

Agent(s): BROWDY AND NEIMARK PLLC

27) Family number: 51932040 (US2014086713A)

© PatBase

Title: OVERHEAD-CONVEYING TRANSPORT BAG AND METHOD FOR AUTOMATICALLY UNLOADING THE TRANSPORT BAG

Abstract: An overhead-conveying transport bag for automatically unloading a loaded piece good includes a basic structure as well as a separate receiving device, which is arranged adjacent thereto. Unloading of the transport bag is performed through one of the front sides of the basic structure which is open and at least the lateral sides of the receiving device are formed such that the base is liftable into an unloading position of the transport bag, in which the base is lifted into the bottom of the basic structure.

Classifications:

International (IPC 8-9): B65G17/20 B65G17/32 B65G47/38 B65G47/61

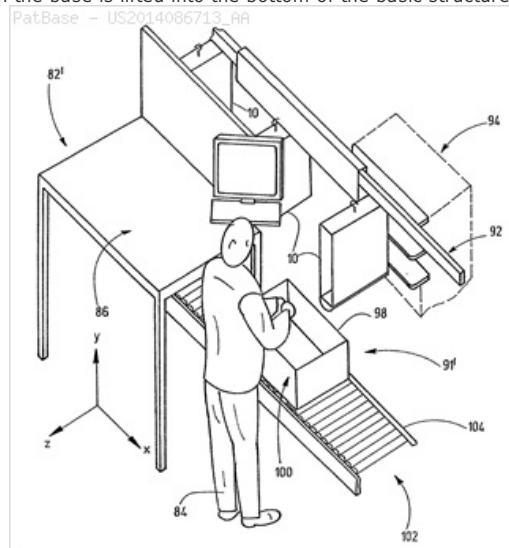
B65G65/00 B65G9/00 (Advanced/Invention);

B65G17/20 (Advanced/Non-Invention)

CPC: B65G9/002 B65G9/004 B65G47/61 B65G65/00 B65G17/20

European: B65G47/61 B65G9/00B B65G9/00G

US: 1/1 383/105 383/117 414/222.01 414/416.04 414/811



Family:

Publication number	Publication date	Application number	Application date
DE102011015138 A1	20120920	DE201110015138	20110317
DE102011015138 B4	20140508	DE201110015138	20110317
DE502012008228 D1	20161027	DE201250008228T	20120316
EP2686258 A1	20140122	EP20120709868	20120316
EP2686258 B1	20160914	EP20120709868	20120316
US2014086713 AA	20140327	US20130028683	20130917
US9212013 BB	20151215	US20130028683	20130917
WO12123564 A1	20120920	WO2012EP54636	20120316

Priority:

DE201110015138 20110317

EP20120709868 20120316

WO2012EP54636 20120316

Probable Assignee: SSI SCHAEFER PEEM GMBH

Assignee(s): (std): FANKHAUSER ROBERT ; GROESSL CHRISTOPH ; SSI SCHAEFER PEEM GMBH ; WINKLER MAX
Inventor(s): (std): FANKHAUSER ROBERT ; GREOSSL CHRISTOPH ; GROESSL CHRISTOPH ; GROSSL CHRISTOPH ; WINKLER MAX ; WINKLER MAX DR
Agent(s): WITTE WELLER AND PARTNER PATENTANWAELTE MBB; WITTE WELLER AND PARTNER; RENNER OTTO BOISSELLE AND SKLAR LLP
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 QA RO RS RU RW 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

28) Family number: 53092367 (US2015225177A)

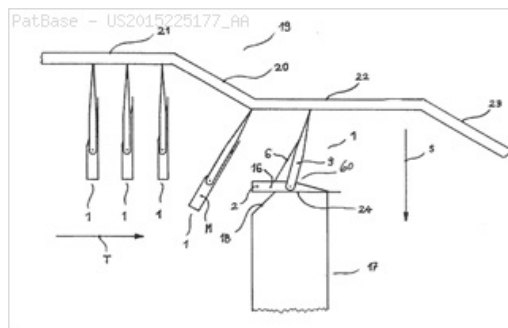
© PatBase

Title: CONVEYED GOODS CONTAINER FOR TRANSPORTING CONVEYED GOODS

Abstract: Conveyed goods container (1) for transporting conveyed goods in a suspended conveyor, wherein the conveyed goods container (1) is in the form of a suspended bag (1) having a conveyed goods receiving region which is delimited on one side by a side wall element (2), and having a suspension means (9) for suspension from a suspended conveyor, wherein the suspension means (9) is fastened to the side wall element (2) in such a manner that it is pivotably about a pivot device (8) defining a pivot axis (15), in which, for the purpose of good load ability and impact protection for the conveyed goods, the conveyed goods receiving region is delimited on a further side by a second side wall element (6), wherein the second side wall element (6) is connected to the suspension means (9) in such a manner that, when the suspension means (9) is pivoted relative to the first side wall element (2) from a transport position into an open position, the second side wall element (6) can be removed from the side wall element (2) so that the conveyed goods receiving region opens.

Classifications:

International (IPC 8-9): B65G17/20 B65G17/32 B65G17/48
B65G9/00 (Advanced/Invention);
B65G19/02 (Advanced/Non-invention)
CPC: B65G17/32 B65G9/004 B65G9/002 B65G17/20 B65G17/485
B65G19/025
US: 198/687.1 383/117 383/119 383/17 383/22 383/93



Family:

Publication number	Publication date	Application number	Application date
CN104619615 A	20150513	CN201380047221	20130717
DE102012212518 A1	20140206	DE201210212518	20120717
DE202012012331 U1	20130115	DE201220012331U	20121221
DE502013004299 D1	20161013	DE201350004299T	20130717
EP2874918 A1	20150527	EP20130749998	20130717
EP2874918 B1	20160831	EP20130749998	20130717
ES2593353 T3	20161207	ES20130749998T	20130717
TR201616261 T4	20161221	TR20160016261T	20130717
US2015225177 AA	20150813	US20130418848	20130717
US9511940 BB	20161206	US20130418848	20130717
WO14012965 A1	20140123	WO2013EP65072	20130717

Priority:

DE201210212518 20120717 DE201220012331U 20121221 WO2013EP65072 20130717
EP20130749998 20130717

Probable Assignee: RSL LOGISTIK GMBH AND CO KG

Assignee(s): (std): RSL LOGISTIK GMBH AND CO KG

Assignee(s): RSL LOGISTIK GMBH CO KG

Inventor(s): (std): SCHOENENBERGER ROLF ; SCHOENENBERGER ROLF

Inventor(s): ROLF SCHOENENBERGER

Agent(s): WEICKMANN AND WEICKMANN PATENTANWAELTE RECHTSANWALT PARTMBB; WEICKMANN AND WEICKMANN; WEICKMANN AND WEICKMANN PARTMBB; UNGRIA JAVIER; CEREN AYYUERK; SUTHERLAND ASBILL AND BRENNAN LLP; TIESMEYER JOHANNES

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 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 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

29) Family number: 54409066 (EP2620394B1)

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Title: CONVEYOR ASSEMBLY WITH CARRYING BAGS FOR CONVEYED GOODS DISPOSITIF DE TRANSPORT MUNI DE SACS DE SUPPORT

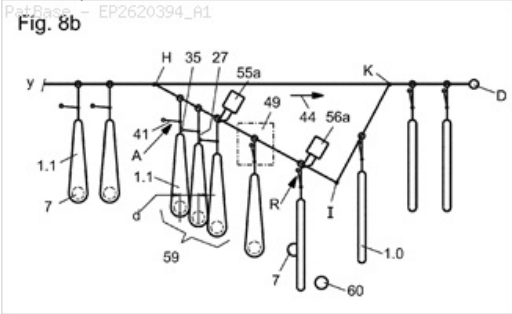
Abstract: The conveyor system has carrying bags (1.1) with pocket pouch having width in conveyance direction (44) to receive

to-be-conveyed material (7) such as clothing. The spacers attached on each bag are adjustable between rest position (R) and operative position (A). The spacer is made to rest in operative position on storage line (59) against bag in conveying direction. The spacer is dimensioned such that horizontal distance (d) of adjacent bag is greater than or equal to maximum width of pouch in operative position, and location of spacer in operative and rest positions is steady.

Classifications:

International (IPC 8-9): B65G19/02 B65G47/61 (Advanced/Invention)

CPC: B65G19/025 B65G2201/0229 B65G47/29



Family:

Publication number	Publication date	Application number	Application date
DE502012000584 D1	20140528	DE201250000584T	20120124
EP2620394 A1	20130731	EP20120152329	20120124
EP2620394 B1	20140416	EP20120152329	20120124
ES2464018 T3	20140529	ES20120152329T	20120124

Priority:

EP20120152329 20120124

Probable Assignee: DUERKOPP FOERDERTECHNIK GMBH

Assignee(s): (std): DUERKOPP FOERDERTECHNIK GMBH

Inventor(s): (std): WEND MICHAEL ; JANZEN PAUL

Agent(s): RAU SCHNECK AND HUEBNER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; RAU SCHNECK AND HUEBNER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; VALLEJO JUAN PEDRO

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

30) Family number: 56013786 (WO14044601A1)

© PatBase

Title: POCKET FOR OVERHEAD CONVEYOR, LOADING STATION, UNLOADING STATION, AND OVERHEAD POCKET CONVEYOR SYSTEM

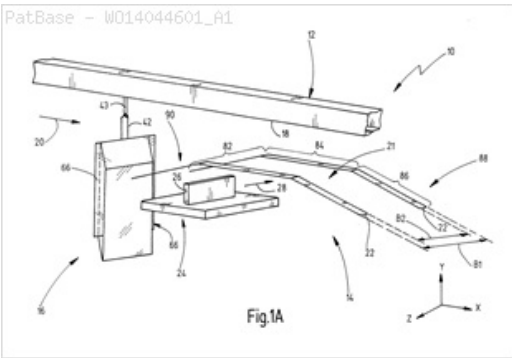
Abstract: The invention relates to an overhead pocket conveyor system (10) comprising: an overhead conveyor (12) for transporting pockets (16) along a guiding rail (18), said pockets (16) being oriented in a substantially horizontal manner in a loading position; a loading station (14) which has a deflecting device (21), said pockets (16) coming into contact with the deflecting device (21) while being transported in the conveying direction (20) in order to rotate the pockets (16) out of a perpendicular transporting position into the substantially horizontal loading position at least initially during a continuous transportation in the conveying direction (20); and a pocket (16). The rear face (44) of the pocket (16) has at least one wing region (66) which projects laterally relative to the front face (48), strikes the at least one pivoting element (92) while the pocket (16) is being transported through the loading station (14) in order to rotate the pocket (16), and lies on the deflecting device (21) in the loading position.

Classifications:

International (IPC 8-9): B65G17/20 B65G47/04 B65G47/38

B65G47/61 (Advanced/Invention)

CPC: B65G9/002 B65G2201/0238 B65G47/38 B65G47/61



Family:

Publication number	Publication date	Application number	Application date
DE102012018925 A1	20140320	DE201210018925	20120918
EP2885231 A1	20150624	EP20130765675	20130913
WO14044601 A1	20140327	WO2013EP68966	20130913

Priority:

DE201210018925 20120918 WO2013EP68966 20130913

Probable Assignee: SSI SCHAEFER PEEM GMBH

Assignee(s): (std): SSI SCHAEFER PEEM GMBH

Inventor(s): (std): BUCHMANN RAINER

Agent(s): WITTE WELLER AND PARTNER PATENTANWAELTE MBB; WITTE WELLER AND PARTNER

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 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

31) Family number: 57434027 (US2014284180A)

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Title: TRANSPORT BAG FOR TRANSPORTING GOODS IN A HANGING MANNER

Abstract: A transport bag is used for transporting goods, in other words products, in a hanging manner. The transport bag has a rigid carrying wall which, when in the transport position, has an upper portion that is connected to a carrying element for carrying the transport bag in a hanging manner. A flexible product retaining wall forms, together with the carrying wall, a carrying bag which is closed downwards and towards two opposite sides at least in the transport position of the transport bag. The carrying wall is connected to the retaining wall between a wall connecting portion which faces upwards in the transport position and a wall connecting portion which faces downwards in the transport position in such a way that a length of the web-shaped retaining wall is variably adjustable to the transport of different products, wherein the length of the web-shaped retaining wall is removable from a retaining wall reservoir and a non-required portion of the retaining wall remains in the retaining wall reservoir. The transport bag is provided such that this length adjustment of the retaining wall is performed by a relative displacement relative to the carrying wall at least in the region of one of the two connecting portions. As a result, a transport bag is obtained which prevents the goods from being damaged during transport.

Classifications:

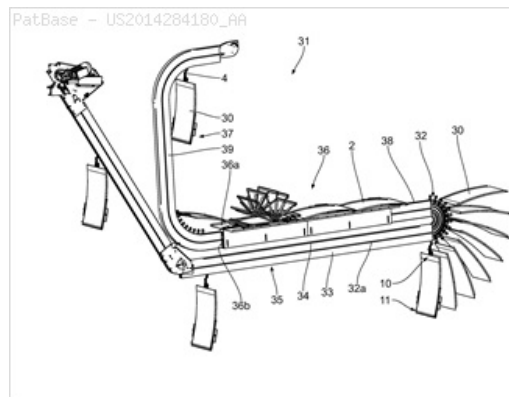
International (IPC 8-9): B07C3/08 B65G17/12 B65G17/20 B65G19/02

B65G47/61 B65G9/00 (Advanced/Invention);

B65G9/00 (Advanced/Non-invention)

CPC: B65G9/002 B65G9/004 B65G19/025 B65G47/61 B65G17/12

US: 1/1 198/713



Family:

Publication number	Publication date	Application number	Application date
DE102013205172 A1	20140925	DE201310205172	20130322
DE102013205172 B4	20180322	DE201310205172	20130322
DE502014001335 D1	20161013	DE201450001335T	20140321
EP2792620 A1	20141022	EP20140161028	20140321
EP2792620 B1	20160831	EP20140161028	20140321
ES2593206 T3	20161207	ES20140161028T	20140321
US2014284180 AA	20140925	US20140221622	20140321
US9187252 BB	20151117	US20140221622	20140321

Priority:

DE201310205172 20130322 EP20140161028 20140321

Probable Assignee: DUERKOPP FOERDERTECHNIK GMBH

Assignee(s): (std): DUERKOPP FOERDERTECHNIK GMBH ; DURKOPP FORDERTECHNIK GMBH

Inventor(s): (std): JANZEN PAUL ; WEND MICHAEL

Agent(s): RAU SCHNECK AND HUEBNER PATENTANWALTE RECHTSANWALTE PARTGMBB; RAU SCHNECK AND HUEBNER PATENTANWALTE RECHTSANWALTE PARTGMBB; VALLEJO JUAN PEDRO; BROWDY AND NEIMARK PLLC

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

32) Family number: 57434018 (US2014284179A)

© PatBase

Title: LOADING STATION FOR TRANSPORT BAGS FOR TRANSPORTING GOODS IN A HANGING MANNER

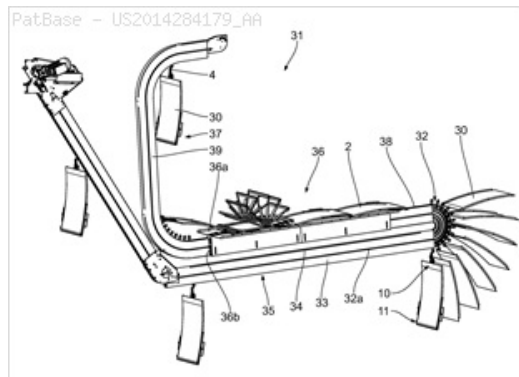
Abstract: A loading station allows transport bags to be loaded for transporting goods in a hanging manner. Each of the transport bags is provided with a first bag wall, wherein the portion of which facing upwards when in the transport position is connected to a carrying member for transporting the transport bag in a hanging manner. A second bag wall of the transport bag forms, together with the first bag wall, a bag which is closed downwards and towards two opposite sides at least when the transport bag is in the transport position. A coupling of the transport bag allows the two bag walls to be detachably connected to each other in a wall connecting portion facing upwards in the hanging transport position of the transport bag or in a lower wall connecting portion. The loading station has at least one conveyor run for conveying the transport bags. The loading station further has the following station sections: an inlet section, a loading section, and a discharge section. Along the loading section, the transport bags are conveyed horizontally to a section of the conveyor run. As a result, a loading station is obtained which allows the transport bags to be loaded easily.

Classifications:

International (IPC 8-9): B07C3/08 B65B25/20 B65G17/20 B65G19/02

B65G47/61 B65G9/00 (Advanced/Invention)

CPC: B65G9/002 B65B25/20 B65G17/20
US: 198/703



Family:

Publication number	Publication date	Application number	Application date
DE102013205170 A1	20140925	DE201310205170	20130322
DE502014001080 D1	20160825	DE201450001080T	20140321
EP2786940 A1	20141008	EP20140161027	20140321
EP2786940 B1	20160713	EP20140161027	20140321
ES2586113 T3	20161011	ES20140161027T	20140321
US2014284179 AA	20140925	US20140221685	20140321

Priority:

DE201310205170 20130322 EP20140161027 20140321

Probable Assignee: DUERKOPP FOERDERTECHNIK GMBH

Assignee(s): (std): DUERKOPP FOERDERTECHNIK GMBH

Inventor(s): (std): JANZEN PAUL

Agent(s): RAU SCHNECK AND HUEBNER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; RAU SCHNECK AND HUEBNER PATENTANWAELTE RECHTSANWAELTE PARTGMBB; VALLEJO JUAN PEDRO

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: 57481761 (US2014291123A)

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Title: METHOD OF, AND APPARATUS FOR, TRANSPORTING AND/OR MEASURING ITEMS OF LAUNDRY

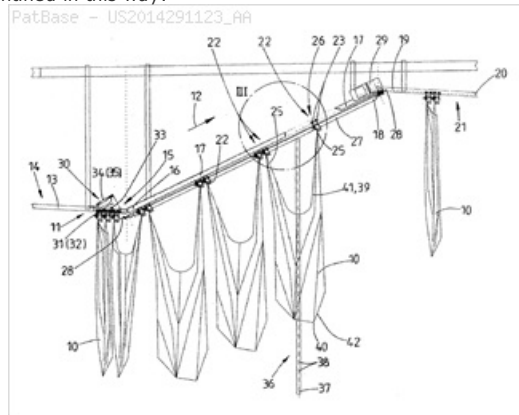
Abstract: Items of laundry (10) are fed, in laundries, to a laundry-treatment device with adjacent corners (25) of an upper edge (39) hanging beneath two clip carriages (22). It is customary for the items of laundry (10) to be stored in a sorted state on an interim basis upstream of the laundry-treatment device. The invention provides for adjacent clip carriages (22) of successive items of laundry (10) to be assigned in pairs to drivers (28) of a catch conveyor (26). The invention also provides for the sagging of the upper edge (39), and the lowermost location (40) of the lower edge (42), of the item of laundry (10) to be determined by a line-measuring device (26), in order for the item of laundry (10) to be identified in this way.

Classifications:

International (IPC 8-9): B65G17/20 D06F67/04 D06F93/00 D06F95/00 (Advanced/Invention)

CPC: D06F67/04 D06F95/00 B65G17/20

US: 1/1 198/617 198/685



Family:

Publication number	Publication date	Application number	Application date
DE102013005251 A1	20141002	DE201310005251	20130327
EP2784208 A2	20141001	EP20140000934	20140314
EP2784208 A3	20141112	EP20140000934	20140314
JP2014188377 A2	20141006	JP20140063197	20140326
US2014291123 AA	20141002	US20140210890	20140314
US9187253 BB	20151117	US20140210890	20140314

Priority:

DE201310005251 20130327

Probable Assignee: HERBERT KANNEGIESSER GMBH

Assignee(s): (std): KANNEGIESSER H GMBH CO
Assignee(s): HERBERT KANNEGIESSER GMBH
Inventor(s): (std): ANDREAS OLIVIERI ; FRANK SCHORMANN ; HEINZ ENGELBERT ; KOERTNER NORBERT ; KORTNER NORBERT ; NORBERT KOERTNER ; OLIVIERI ANDREAS ; SCHORMANN FRANK
Agent(s): MOELLER FRIEDRICH; LAURENCE P; SMITH RISLEY TEMPEL SANTOS 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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

34) Family number: 57587043 (US2016046446A) © PatBase

Title: CONVEYING APPARATUS

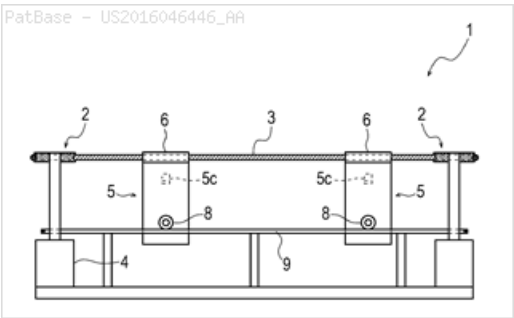
Abstract: Provided is a conveying apparatus configured that a rope member is extended between pulleys and a work is suspended on a rope member through a hook member. The object of the present invention is to provide the conveying apparatus making the rope member hard to come off the pulleys and including a bend part. The conveying apparatus for conveying the work along a predetermined conveying route includes a plurality of pulleys, a rope member, and a support member. The hook member is flexible, including a hold part which is a hole into which the rope member is inserted, held by the rope member by inserting the rope member into the hold part. The support member is joined to the hook member, and is suspended on the rope member by inserting the rope member into the hold part.

Classifications:

International (IPC 8-9): B65G17/20 B65G17/22 B65G17/38 B65G17/42 (Advanced/Invention)

CPC: B65G17/42 B65G17/20 B65G17/38 B65G2201/02

US: 1/1 198/678.1



Family:

Publication number	Publication date	Application number	Application date
CN105143072 A	20151209	CN201380075522	20131030
DE602013033887 D1	20180329	DE201360033887T	20131030
EP2985243 A1	20160217	EP20130882018	20131030
EP2985243 A4	20160504	EP20130882018	20131030
EP2985243 B1	20180228	EP20130882018	20131030
JP2014205535 A2	20141030	JP20130083264	20130411
JP5915585 B2	20160511	JP20130083264	20130411
US2016046446 AA	20160218	US20130783124	20131030
US9446903 BB	20160920	US20130783124	20131030
WO14167748 A1	20141016	WO2013JP79381	20131030

Priority:

JP20130083264 20130411 EP20130882018 20131030 WO2013JP79381 20131030

Probable Assignee: TOYOTA JIDOSHA KK

Assignee(s): (std): TOYOTA MOTOR CO LTD ; TOYOTA MOTOR CORP

Assignee(s): TOYOTA JIDOSHA KK ; TOYOTA JIDOSHA TOYOTA SHI KK

Inventor(s): (std): MATSUOKA HIROFUMI ; MATSUOKA HIROSHI

Agent(s): WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT MBB PATENTANWAELTE; WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT MBB; WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT MBB; YANO JUICHIRO; IEIRI TAKESHI; KENYON AND KENYON LLP

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 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

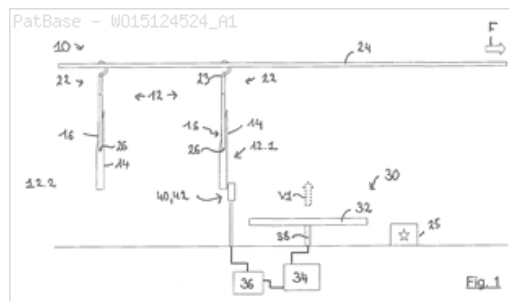
35) Family number: 60171991 (WO15124524A1) © PatBase

Title: HANGING CONVEYANCE DEVICE WITH LOADING STATION

Abstract: The present invention relates to a hanging conveying device (10) for transporting conveyed goods in hanging pockets (12), comprising, a plurality of hanging pockets (12), each with a first pocket side wall (14) and a second pocket side wall (16), which can be folded apart or together to open and close a conveyed goods holding area, wherein the first pocket side wall (14) is connected to a suspension means (22) around a pocket pivot axis (26) in a pivoting manner, and the second pocket side wall (16) can be impinged by the suspension means (22) in such a manner that, by pivoting the first pocket side wall (14) around the pocket pivot axis (26), the pocket side walls (14, 16) can be folded apart or together, wherein the hanging conveying device (10) further comprises: a guide rail arrangement (24) for the guided moving of the hanging pockets (12) and a loading station (30) for the hanging pockets (12), with a loading platform (32) adjustable in the vertical direction, which is positioned below the guide rail arrangement (24).

Classifications:**International (IPC 8-9):** B65G17/20 B65G17/32 B65G17/48

B65G47/60 (Advanced/Invention)

CPC: B65G17/20 B65G9/002 B65G17/485**Family:**

Publication number	Publication date	Application number	Application date
DE102014203298 A1	20150827	DE201410203298	20140224
EP3110725 A1	20170104	EP20150704554	20150216
WO15124524 A1	20150827	WO2015EP53203	20150216

Priority:

DE201410203298 20140224 WO2015EP53203 20150216

Probable Assignee: RSL LOGISTIK GMBH AND CO KG**Assignee(s):** (std): RSL LOGISTIK GMBH AND CO KG**Inventor(s):** (std): SCHOENENBERGER ROLF**Agent(s):** WEICKMANN AND WEICKMANN PARTMBB; TIESMEYER JOHANNES ET AL**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**36) Family number: 60171997** (US2017015505A)

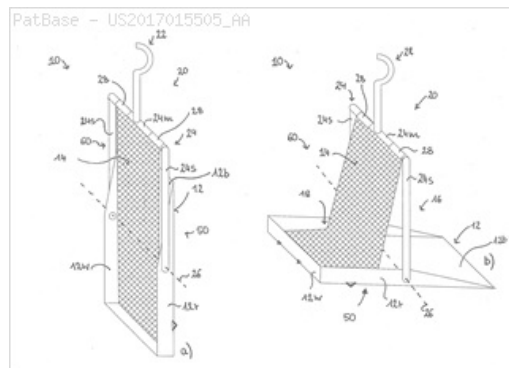
© PatBase

Title: SUSPENDED POUCH COMPRISING INTERCHANGEABLE ELEMENT

Abstract: The invention relates to a suspended pouch (10) acting as a container for conveyed goods for transporting goods to be conveyed in a suspended conveyor device, comprising a first pouch side wall (12) and a second pouch side wall (14) which can be unfolded and folded up to open and close a conveyed goods receiving region (16), and comprising a suspension means (20), the first pouch side wall (12) comprising a rigid edge contour region (12r) and being connected at said region to the suspension means (20) so as to be pivotable about a pivot axis (26), and the second pouch side wall (14) being connected to the suspension means (20), or said suspension means being able to act on said second side wall, in such a way that the first and second pouch side wall (12, 14) can be unfolded and folded up by pivoting the first pouch side wall (12) about the pivot axis (26), wherein the suspended pouch (10) comprises a basic unit (50) and an interchangeable element (60), the basic unit (50) comprising the suspension means (20) and the rigid edge contour region (12r), and the interchangeable element (60) comprising at least part of the second pouch side wall (14), preferably the entire second pouch side wall (14), and being provided on the basic unit (50) in a replaceable manner.

Classifications:**International (IPC 8-9):** B65D33/00 B65G17/20 B65G17/48 B65G33/00

B65G9/00 (Advanced/Invention)

CPC: B65G17/485 B65G17/20**US:** 198/715**Family:**

Publication number	Publication date	Application number	Application date
DE102014203299 A1	20150827	DE201410203299	20140224
EP3110726 A1	20170104	EP20150704555	20150216
US2017015505 AA	20170119	US20150121022	20150216
US9828182 BB	20171128	US20150121022	20150216
WO15124525 A1	20150827	WO2015EP53204	20150216

Priority:

DE201410203299 20140224 WO2015EP53204 20150216

Probable Assignee: RSL LOGISTIK GMBH AND CO KG**Assignee(s):** (std): RSL LOGISTIK GMBH AND CO KG**Assignee(s):** RSL LOGISTIK GMBH AND COKG**Inventor(s):** (std): SCHOENENBERGER ROLF

Agent(s): WEICKMANN AND WEICKMANN PARTMBB; EVERSLEDs SUTHERLAND US LLP; TIESMEYER JOHANNES

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

37) Family number: 61806306 (US2017275826A) © PatBase

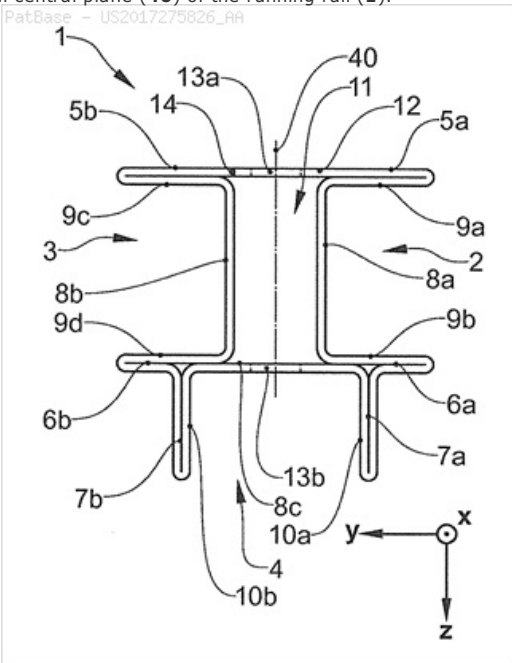
Title: RUNNING RAIL AND METHOD FOR PRODUCING SUCH A RUNNING RAIL

Abstract: A running rail (1) for a conveyor system, the running rail (1) having a cross-sectional profile comprising at least three interconnected profiled portions which comprise a first profiled portion (2), laterally open to the outside, for receiving first rollers (32) of a carriage (30), a second profiled portion (3), laterally open to the outside, for receiving second rollers (33) of a carriage (30), a third profiled portion (4), open in the vertical direction, for receiving third rollers (34) of a carriage (1), wherein the first (2) and the second profiled portion (3) are mirror symmetrical to a vertical central plane (40) of the running rail (1).

Classifications:

International (IPC 8-9): B21B1/085 B61B13/04 B65G19/02 B65G39/18 B65G9/00 E01B25/24 (Advanced/Invention); B65G9/00 (Advanced/Non-invention)

CPC: E04C2003/0439 E04C2003/0413 E04C2003/0421 B65G39/18 B65G9/008 B61B13/04 B65G19/025 B23K9/00 B65H2405/55 E01B25/24



Family:

Publication number	Publication date	Application number	Application date
AU2015309017 AA	20160303	AU20150309017	20150820
CH710024 A1	20160229	CH20140001289	20140827
CN107075816 A	20170818	CN201580045601	20150820
EP3186443 A1	20170705	EP20150756599	20150820
IN201747009940 A	20170407	IN201747009940	20170322
US2017275826 AA	20170928	US20150506011	20150820
WO16030274 A1	20160303	WO2015EP69156	20150820

Priority:

CH20140001289 20140827 WO2015EP69156 20150820

Probable Assignee: FERAG AG

Assignee(s): (std): FERAG AG

Inventor(s): (std): KALIN ERICH ; Kaelin ERICH ; FENILE ROBERTO

Inventor(s): ROBERTO FENILE ; ERICH KAELIN

Agent(s): DAVIES COLLISON CAVE PTY LTD; RENTSCH PARTNER AG; RENTSCH PARTNER RECHTSWAELTE U PATENTWAELTE AG

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

38) Family number: 61806308 (WO16030275A1) © PatBase

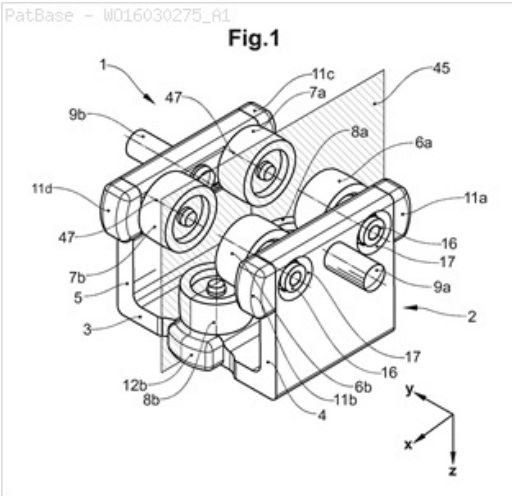
Title: CARRIAGE FOR A CONVEYOR, IN PARTICULAR FOR A GRAVITY CONVEYOR, CONVEYING SYSTEM, AND METHOD FOR OPERATING A CONVEYING SYSTEM

Abstract: The invention relates to a carriage for a conveyor, comprising a carriage body (2), which is designed to encompass a

running rail (20) and which comprises a first and a second leg (4; 5), which are connected by a connecting segment (3), wherein the first leg (4) comprises first rollers (6a; 6b) attached to the inside of the first leg and the second leg (5) comprises second rollers (7a; 7b) attached to the inside of the second leg and the connecting segment (3) comprises third rollers (8a; 8b) attached to the inside of the connecting segment. According to the invention, the first and second rollers (6a; 6b; 7a; 7b) are arranged upright and the third rollers (8a; 8b) are arranged in a lying position.

Classifications:

International (IPC 8-9): B61B10/02 B65G17/20 B65G19/02 B65G35/00 B65G9/00 (Advanced/Invention);
B65G17/30 B65G9/00 (Advanced/Non-invention)
CPC: B65G9/002 B65G17/20 B65G19/025



Family:

Publication number	Publication date	Application number	Application date
AU2015309018 AA	20160303	AU20150309018	20150820
CH710022 A1	20160229	CH20140001287	20140827
CN107074448 A	20170818	CN201580045592	20150820
EP3186172 A1	20170705	EP20150756600	20150820
IN201747009966 A	20170421	IN201747009966	20170322
WO16030275 A1	20160303	WO2015EP69157	20150820

Priority:

CH20140001287 20140827 WO2015EP69157 20150820

Probable Assignee: FERAG AG

Assignee(s): (std): FERAG AG

Inventor(s): (std): FENILE ROBERTO ; Kaelin ERICH ; KALIN ERICH

Inventor(s): ROBERTO FENILE ; K LIN ERICH ; ERICH KAELIN

Agent(s): DAVIES COLLISON CAVE PTY LTD; RENTSCH PARTNER AG

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

39) Family number: 63047909 (US10005616B)

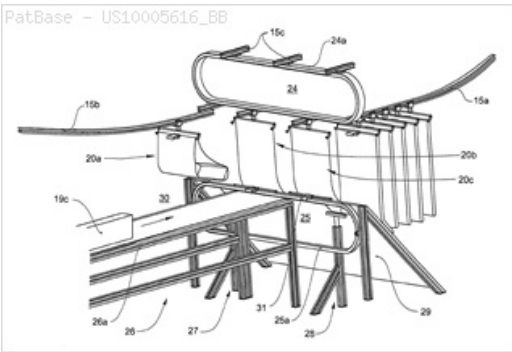
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Title: METHOD FOR FILLING THE POCKETS OF A TRANSPORT DEVICE IN THE FORM OF A SUSPENSION CONVEYOR AND DEVICE FOR CARRYING OUT SAID METHOD

Abstract: A method for filling the pockets of a transport device in the form of a suspension conveyor that includes one or more trolleys which are movably mounted on a trolley track in a trolley track direction and on each of which a pocket hanging downwards for receiving transported goods is arranged, the pocket being formed by at least one flexible material web that is planar when open and that is fastened at both ends to the trolley, forming a carrying loop or transport loop hanging downwards. The material web is releasably fastened by at least one end to the trolley. The method further includes the steps: a) advancing a closed pocket, b) opening the pocket by releasing the fastening of the at least one end of the material web to the trolley, c) filling the opened pocket with goods to be transported closing the pocket by fastening the at least one end of the material web to the trolley, and e) transporting away the filled and closed pocket.

Classifications:

International (IPC 8-9): B65G17/20 B65G17/32 B65G19/02 B65G47/04 B65G47/06 B65G47/32 B65G47/34 B65G47/38 B65G47/44 B65G47/61 B65G47/74 B65G9/00 (Advanced/Invention);
B65G17/20 B65G19/02 B65G47/38 B65G47/61 (Advanced/Non-invention)
International (IPC 1-7): B65G17/20 B65G19/02 B65G47/61
CPC: B65G47/44 B65G19/025 B65G47/38 B65G2201/0238 B65G9/004 B65G17/20 B65G47/61



Family:

Publication number	Publication date	Application number	Application date
AU2016212416 AA	20160804	AU20160212416	20160107
BR112017013972 A2	20180102	BR20171113972	20160107
CA2973513 AA	20170711	CA20162973513	20160107
CH710650 A1	20160729	CH20150000089	20150126
CH710663 A1	20160729	CH20150000572	20150427
CH710664 A1	20160729	CH20150000573	20150427
CN107406198 A	20171128	CN201680007139	20160107
CO20170007285 A2	20171130	CO20170007285	20170721
DE202016008366 U1	20171102	DE201620008366U	20160107
DE202016008366 U8	20180118	DE201620008366U	20160107
EA201791586 A1	20171130	EA20170091586	20160107
EP3250484 A1	20171206	EP20160700395	20160107
EP3250485 A1	20171206	EP20160700396	20160107
EP3250486 A1	20171206	EP20160700538	20160107
EP3305689 A1	20180411	EP20170187594	20160107
IN201747029630 A	20170901	IN201747029630	20170822
JP2018503573 T2	20180208	JP20170535027T	20160107
KR20170106972 A	20170922	KR20177020807	20160107
MX2017009577 A1	20171101	MX20170009577	20160107
US10005616 BB	20180626	US20160542880	20160107
US2017369248 AA	20171228	US20160542893	20160107
US2017369250 AA	20171228	US20160542880	20160107
US2018002115 AA	20180104	US20160542887	20160107
WO16120030 A1	20160804	WO2016EP50158	20160107
WO16120031 A1	20160804	WO2016EP50160	20160107
WO16120032 A1	20160804	WO2016EP50161	20160107

Priority:

CH20150000089 20150126 CH20150000572 20150427 CH20150000573 20150427
DE201620008366U 20160107 EP20160700538 20160107 WO2016EP50158 20160107
WO2016EP50160 20160107 WO2016EP50161 20160107

Probable Assignee: FERAG AG

Assignee(s): (std): FERAG AG

Assignee(s): KALIN ERICH ; FENILE ROBERTO

Inventor(s): (std): Kaelin Erich ; Kalin Erich ; Roberto Fenile ; Marc Andreas Benz ; Erich Kaelin ; Benz Marc Andreas ; Fenile Roberto

Inventor(s): K Lin Erich

Agent(s): DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; JAIME EDUARDO DELGADO VILLEGAS; RENTSCH PARTNER AG; PAULEY ERICKSON AND KOTTIS

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

40) Family number: 65315147 (US2017088302A)

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Title: TRANSPORT BAG FOR TRANSPORTING AND/OR STORING ARTICLES, AND TRANSPORT DEVICE COMPRISING SAID TRANSPORT BAG

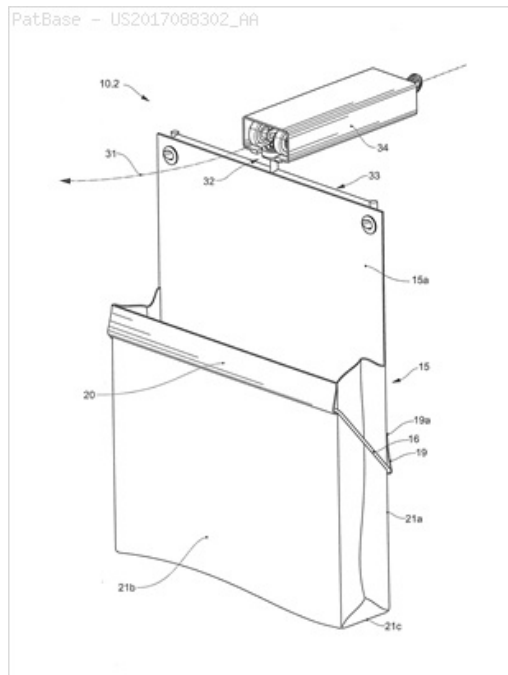
Abstract: A transport bag (15) for transporting and/or storing articles comprises a front wall (21b) and a back wall (21a) that are flexibly connected to one another via a bottom section (21c) so as to be movable back and forth between a first configuration in which the front wall and back wall form an upwardly open bag that can be filled from above, and a second configuration in which the front wall and back wall lie closely alongside one another and form a bag that is folded together, wherein the back wall (21a) is extended upward above and beyond the height of the front wall (21b) with a support section (15a) for fastening the transport bag (15) to a transport device (10.2). Easy filling and emptying of the transport bag (15) is achieved by providing an opening (16, 19, 20) that automatically brings the transport bag (15) into the first configuration and keeps the transport bag there, and allows a deliberate shift from the first configuration into the second configuration.

Classifications:

International (IPC 8-9): B65B43/42 B65B67/12 B65D33/14 B65G17/20 B65G17/32 B65G19/02 B65G9/00 (Advanced/Invention)

CPC: B65B67/1205 B65D33/14 B65B67/1211 B65B67/1222 B65B67/1238 B65B67/1244 B65B67/1266 B65B43/42 B65G2201/0238 B65G9/004 B65G17/20 B65G9/002 B65G19/025

US: 198/803.14

**Family:**

Publication number	Publication date	Application number	Application date
CH711565 A1	20170331	CH20150001386	20150924
DE502016001250 D1	20180712	DE201650001250T	20160905
EP3147240 A1	20170329	EP20160187258	20160905
EP3147240 B1	20180613	EP20160187258	20160905
US2017088302 AA	20170330	US20160257617	20160906

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Agent(s): MUELLER HOFFMANN AND PARTNER PATENTANWALTE MBB; RENTSCH PARTNER AG

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

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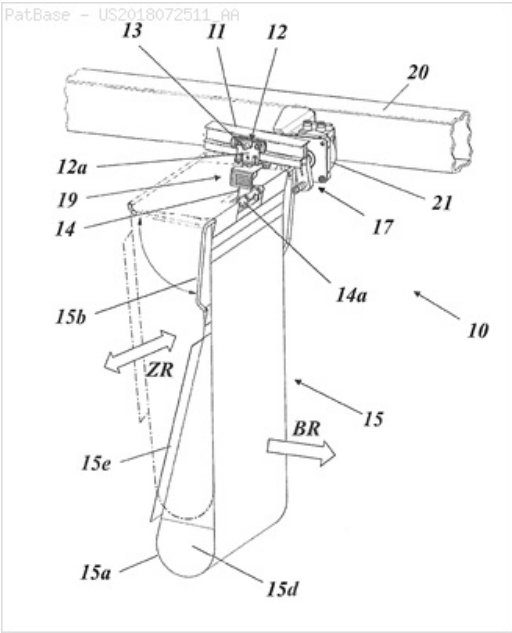
Title: METHOD FOR OPENING A TRANSPORT POCKET SUSPENDED ON A CARRIAGE AS WELL AS A POCKET OPENING DEVICE FOR PERFORMING THE METHOD

Abstract: In a method for opening a transport pocket (15), which is moved in a conveying direction (BR) along a running rail (11) extending in the conveying direction (BR) for the conveying of goods suspended on a carriage (12), simple and precise loading and/or unloading of the transport pocket (15) is enabled by the fact that the carriage (12) with the transport pocket (15) suspended thereon is stopped in its forward movement at a predetermined point of the running rail (11) in order to open the transport pocket (15), and that the transport pocket (15) of the carriage (12) is opened for loading and/or unloading of conveyed goods to be transported.

Classifications:

International (IPC 8-9): B65G17/20 B65G47/36 B65G47/61 B65G47/78 B65G9/00 (Advanced/Invention)

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Family:

Publication number	Publication date	Application number	Application date
■ CH712895 A1	20180315	CH20160001171	20160909
■ EP3293130 A1	20180314	EP20170189731	20170907
■ US2018072511 AA	20180315	US20170692605	20170831

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CH20160001171 20160909

Probable Assignee: FERAG AG

Assignee(s): (std): FERAG AG

Inventor(s): (std): FENILE ROBERT ; FENILE ROBERTO ; ROBERTO FENILE

Agent(s): RENTSCH PARTNER AG

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