

PatBase - Search results 12 June 2019
Search query (6): fn=(60069552 or 60069552 or 31770247 or 52839883 or 24121031 or 32228191 or 48522752 or 49985991 or 12495401 or 3002095 or 3002095 or 26936627 or 53897931 or 3237897 or 24121031 or 24121031 or 31870028 or 34556818 or 41730006 or 41730006 or 33450378 or 43766294 or 44312276 or 46803828 or 52367980 or 50129148 or 49558968 or 53445099 or 52367980 or 57425239 or 53956177 or 59510085 or 22793526 or 22752017 or 22752017 or 22793526 or 1251751 or 1617403 or 8089859 or 3855964 or 2413643 or 4240896 or 4670238 or 9441456 or 12147699 or 15742551 or 29990909 or 26936627 or 26936627 or 12866502 or 12866502 or 30119111 or 30134736 or 30547502 or 30547502 or 31770247 or 31770247 or 28065433 or 33256062 or 34104860 or 40901902 or 41770488 or 42771081 or 53195863 or 47096883 or 24043235 or 24073097)
Results: 53

1) Family number: 41730006 (US2008086905A)

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Title: APPARATUS AND METHOD FOR THE UNIFORM DRYING OF BOARD MATERIALS

Abstract: Disclosed is an apparatus and method for the uniform drying of boards, such as gypsum wallboards. The apparatus includes a dryer through which a series of boards are conveyed in a side-by-side relationship. While in the dryer, heated air is delivered over the boards via a series of separate air channels. A bypass duct delivers a portion of or a totality of unreheated air to the outermost channels where the cooler air displaces a volume of the warmer air. As a result, the air in the outermost channels is cooler than the air in the interior channels. Air from the outermost channels is then directed over the exposed longitudinal edges of the boards.

Classifications:

International (IPC 8-9): F26B25/06 F26B3/00 F27B9/00

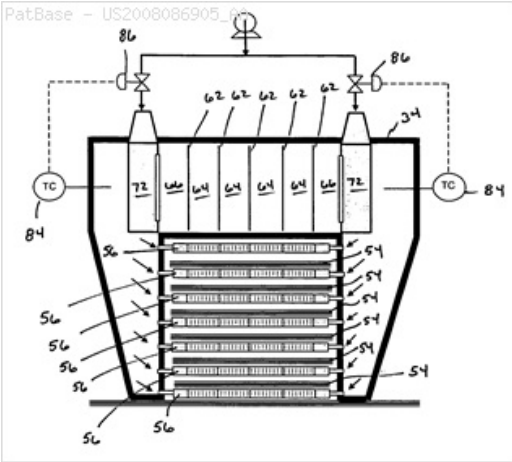
F27B9/06 (Advanced/Invention);

F26B25/06 F26B3/00 F27B9/00 (Core/Invention)

CPC: F26B13/007 F26B15/12 F26B21/02 F26B21/10

European: F26B13/00H F26B15/12 F26B21/02 F26B21/10

US: 34/205 34/212 34/218 34/443 34/445 34/446 34/477 34/479 34/86



Family:

Publication number	Publication date	Application number	Application date
CA2668451 AA	20090504	CA20072668451	20071012
CA2668451 C	20150421	CA20072668451	20071012
US2008086905 AA	20080417	US20060580699	20061013
US7726040 BB	20100601	US20060580699	20061013
WO08048476 A2	20080424	WO2007US21774	20071012
WO08048476 A3	20080703	WO2007US21774	20071012

Priority:

US20060580699 20061013 WO2007US21774 20071012

Probable Assignee: CERTAINTED GYPSUM INC

Assignee(s): (std): CERTAINTED GYPSUM INC ; YANES FELIPE J

Inventor(s): (std): YANES FELIPE J

Agent(s): RIDOUT AND MAYBEE LLP; HOLLAND AND KNIGHT LLP ATTN STEFAN V STEIN IP DEPT; GRAYROBINSON PA; COLITZ MICHAEL J III ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 22752017 (US3043014A)

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Title: DRYING OF GYPSUM BOARD

Abstract: (Claim 1) 1. In a drier for drying gypsum wallboard comprising . an elongated tunnel-like housing through which heated air is circulated and a conveyor mounted and longitudinally disposed within said drier, said conveyor being adapted 40 for moving said sheets of gypsum wallboard in successive adjacency through the length of said drier so that the - leading edge of one of said sheets closely follows the trailing edge of another of said sheets, the improvement comprising spray means mounted transversely of the direction of travel of said sheets for applying a fluid coolant across the width of the drier conveyor, valve means controlling the supply of cooling fluid to said spray means, said valve means being such that the supply of cooling fluid flowing therethrough is interrupted after a preset time period following its initial opération, said preset time period being only a

minor portion of the time of transversal of any one of said sheets past said spray means, and means connected to said valve means and operatively 55 positioned relative to said sheets of wallboard so that said control means is actuated by each end of each of said sheets to open said valve means to initiate its operating cycle, whereby because of the short operating time of the spray means, only the ends of each gypsum sheet are sprayed with coolant and the major portion of its surface is unsprayed.

Classifications:

International (IPC 8-9): F26B15/12 F26B25/00 (Advanced/Invention); F26B15/00 F26B25/00 (Core/Invention)

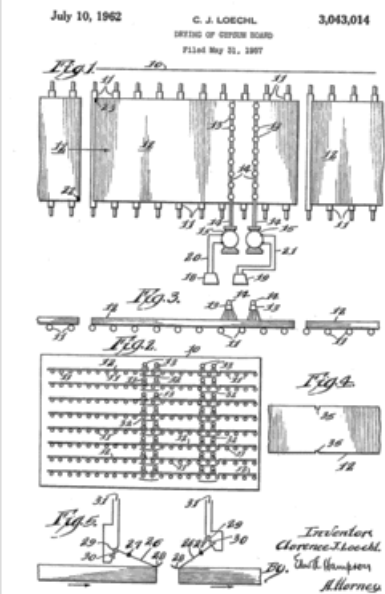
International (IPC 1-7): F26B15/12 F26B21/06

CPC: F26B15/12 F26B25/004

European: F26B15/12 F26B25/00B3B

US: 118/64 118/679 34/205 34/524 427/374.1 427/384 427/424

PatBase - US3043014_A



Family:

Publication number	Publication date	Application number	Application date
US3043014 A	19620710	US19570662668	19570531

Priority:

US19570662668 19570531

Probable Assignee:

CELOTEX CORP

Assignee(s): (std):

CELOTEX CORP

Inventor(s): (std):

LOECHL CLARENCE J

3) Family number: 31870028 (US2005090932A)

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Title: APPARATUS FOR PROCESSING PRELIMINARY PRODUCTS IN THE GRAPHICS INDUSTRY

Abstract: An apparatus for processing preliminary products in the graphics industry with the preliminary products at a standstill in a processing position, includes a conveyor by which the preliminary products can be transported in a transporting direction, along a transporting section, into the processing position, a drive that operates the conveyor, a detector that detects a respective preliminary product en route along the transporting section, and a controller that is linked up with the detector and the drive and by which the drive can be brought to a temporary standstill when the respective preliminary product reaches the processing position. On account of stops not being present, the preliminary products remain intact at least along their leading edges, as seen in the transporting direction, there are no marks on these edges, and the set-up times during a changeover of the format of the preliminary products are relatively short.

Classifications:

International (IPC 8-9): B65H B65H29/24 B65H43/00 B65H45/12 B65H45/14 B65H45/18 B65H5/02 B65H5/22 B65H7/02 B65H7/14 B65H9/10 (Advanced/Invention); B65H29/24 B65H43/00 B65H45/12 B65H5/02 B65H5/22 B65H7/02 B65H9/10 (Core/Invention); B65H (Subclass/Invention)

International (IPC 1-7): B65H43/00 B65H45/12 B65H45/14 B65H45/18 B65H5/02 B65H7/02 B65H7/14 F26B5/04 G06F7/00

CPC: B65H5/021 B65H9/105 B65H11/005 B65H11/007 B65H29/241

B65H45/18 B65H2404/24 B65H2404/251 B65H2511/51 B65H2513/10 B65H2513/512 B65H2701/1932 B65H5/224

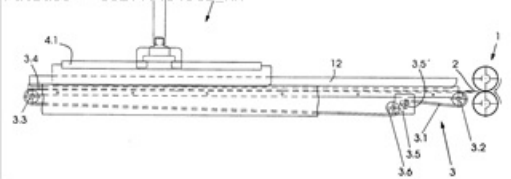
European: B65H11/00B2 B65H11/00D B65H29/24B B65H45/18 B65H5/02B B65H5/22B2 B65H9/10B2 L65H404/24 L65H404/251 L65H511/510 L65H513/100 L65H513/512 L65H701/1932

US: 700/230 700/230P

JP F-Term: 3F048 3F048/AA00 3F048/AB04 3F048/BA11 3F048/BB02 3F048/CC03 3F048/EA03 3F048/EB24 3F049 3F049/AA02 3F049/BA02 3F049/BB01 3F049/BB03 3F049/LA16 3F049/LB05 3F108 3F108/AA01 3F108/AB01 3F108/CC02 3F108/CC13

JP F-Index: B65H43/00 B65H45/14 B65H45/18 B65H5/02/B

PatBase - US2005090932_AA



Family:

Publication number	Publication date	Application number	Application date
AT374722 E	20071015	AT20040104824T	20041001
CN100413767 C	20080827	CN200410087949	20041027

CN1611432 A	20050504	CN200410087949	20041027
DE102004045486 A1	20050525	DE200410045486	20040920
DE502004005118 D1	20071115	DE200450005118T	20041001
EP1528026 A1	20050504	EP20040104824	20041001
EP1528026 B1	20071003	EP20040104824	20041001
HK1074614 A1	20090227	HK20050106600	20050802
HK1074614 A1	20051118	HK20050106600	20050802
HK1074614 A3	20051118	HK20050106600	20050802
HK1074614 B	20090227	HK20050106600	20050802
JP2005126233 A2	20050519	JP20040082659	20040322
PT1528026 T	20080111	PT20040104824T	20041001
US2005090932 AA	20050428	US20040974435	20041027

Priority:

DE20031050095 20031027 US20030516154P 20031031 DE200410045486 20040920
US20040974435 20041027

Probable Assignee: HEIDELBERGER DRUCKMASCHINEN AG

Assignee(s): (std): HEIDELBERGER DRUCKMASCH AG

Assignee(s): HEIDELBERGER DRUCKMASCHINEN ; HEIDELBERGER DRUCKMASCHINEN AG ; HEIDELBERGER DRUCKMASCHINEN AKTIENGESELLSCHAFT ; HEIDELBERGER DRUCKMASCHINENAKTIENGESELLSCHAFT ; HEIDELBERGER DRUCKMAS AG

Inventor(s): (std): BELMANN MARKUS ; BERND KERNSTOCK ; KERNSTOCK BERND ; KLAUS PETER SCHREIBER ; MARKUS BELMANN ; SCHREIBER KLAUS PETER

Agent(s): NTD PATENT AND TRADE MARK AGENCY LTD UNITS 1805 6 18 F GREENFIELD TOWER; NTD PATENT AND TRADE MARK AGENCY LTD; LERNER AND GREENBERG PA

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

4) Family number: 24121031 (US2004134585A)

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Title: PROCESS AND DEVICE FOR FORMING DENSE LAYERS IN A GYPSUM SLURRY

Abstract: A process for manufacturing plasterboard and a plasterboard manufacturing unit are provided, the process including feeding hydratable calcium sulphate and water into a first mixer (2) and into a second mixer (3); feeding in a facing (5); preparing a first gypsum slurry in the first mixer (2); preparing a second gypsum slurry in the second mixer (3); applying the first slurry onto the facing and forming a crude surface layer; applying the second slurry onto the crude surface layer and forming a crude core layer with a density lower than that of the crude surface layer; forming a plasterboard; hydrating and drying the board. This process allows the formation of the different layers of gypsum to be controlled independently.

Classifications:

International (IPC 8-9): B01F15/02 B01F15/04 B28B1/16 B28B1/30 B28B13/02 B28B17/00 B28B17/02 B28B19/00 B28C5/16 B32B13/00 B32B37/24 C04B11/00 E04C2/04 (Advanced/Invention); B32B13/08 B32B13/14 (Advanced/Non-invention); B01F15/02 B01F15/04 B28B1/16 B28B1/30 B28B13/00 B28B17/00 B28B19/00 B28C5/00 B32B13/00 B32B37/14 (Core/Invention); B32B13/00 (Core/Non-invention)

International (IPC 1-7): B28B B28B1/16 B28B1/30 B28B13/02 B28B17/02 B28B19/00 B28C5/16 B32B13/00 B32B31/00 C04B11/00 C04B11/00 C04B11/40 C04B5/06 E04C2/04

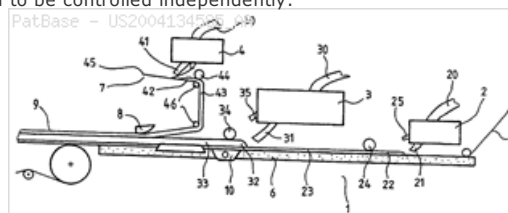
CPC: B28B17/023 B28B19/0015 B28B19/0092

European: B28B17/02B B28B19/00B B28B19/00K

US: 156/346 156/39 156/43 156/44 366/10 366/15 366/20 366/38

JP F-Term: 4G052 4G052/DA01 4G052/DA08 4G052/DB12 4G052/DB16 4G052/DC01 4G055 4G055/AA04 4G055/AC01 4G055/AC09 4G055/CA04 4G055/CA05 4G055/CA23 4G055/CA29 4G056 4G056/AA10 4G056/AA21 4G056/AA23 4G056/CA03 4G056/CB12 4G056/CC12 4G056/CD34 4G056/CD36

JP F-Index: B28B1/30 B28B13/02 B28C5/16



Family:

Publication number	Publication date	Application number	Application date
AR033728 AA	20040107	AR2002P101726	20020510
AT358564 E	20070415	AT20020738232T	20020510
AU2002313044 AA	20021125	AU20020313044	20020510
AU2002313044 BB	20070322	AU20020313044	20020510
BRPI0209686 A	20040914	BR2002PI09686	20020510
CA2447561 AA	20031113	CA20022447561	20020510
CA2447561 C	20101102	CA20022447561	20020510
CL2002000977 A1	20030226	CL20020000977	20020513
CN1221367 C	20051005	CN20028009866	20020510
CN1509226 A	20040630	CN20028009866	20020510
DE60219302 D1	20070516	DE20026019302	20020510
EP1389157 A1	20040218	EP20020738232	20020510
EP1389157 B1	20070404	EP20020738232	20020510
FR2824552 A1	20021115	FR20010006381	20010514
FR2824552 B1	20040402	FR20010006381	20010514
IL158757 A0	20040512	IL20020158757	20020510
IN01414KN2003 A	20060602	IN2003KN01414	20031104
JP2004528204 T2	20040916	JP20020589228T	20020510
KR20040012830 A	20040211	KR20037014829	20020510
MXPA03010290 A1	20040505	MX2003PA10290	20020510

NO20035090 A0	20031114	NO20030005090	20031114
NZ529451 A	20051223	NZ20020529451	20020510
PL199451 B1	20080930	PL20020367072	20020510
PL367072 A1	20050221	PL20020367072	20020510
RU2003136094 A	20050527	RU20030136094	20020510
RU2265514 C2	20051210	RU20030136094	20020510
TH47054 B	20151120	TH20021001700	20020513
TH60283 A	20040109	TH20021001700	20020513
UA78703 C2	20070425	UA20031211541	20020510
US2004134585 AA	20040715	US20030703418	20031110
US7470338 BB	20081230	US20030703418	20031110
WO02092307 A1	20021121	WO2002FR01587	20020510
ZA200308762 A	20040712	ZA20030008762	20031111

Priority:

FR20010006381 20010514 WO2002FR01587 20020510

Probable Assignee: CONTINENTAL BUILDING PRODUCTS OPERATING CO LLC F K A CONTINENTAL BUILDING PRODUCTS LLC

Assignee(s): (std): LAFARGE PLATRES ; JALLON PAUL ; LAURENT JEAN LOUIS ; RIGAUDON MICHEL ; LAFARGE PLASTERS ; CALLAIS BRUNO

Assignee(s): CONTINENTAL BUILDING PRODUCTS LLC ; CONTINENTAL BUILDING PRODUCTS OPERATING CO LLC ; CONTINENTAL BUILDING PRODUCTS OPERATING CO LLC F K A CONTINENTAL BUILDING PRODUCTS LLC ; CREDIT SUISSE ADMINISTRATIVE AGENT AG AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH FIRST LIEN ADMINISTRATIVE AGENT AG AS ; LAFARGE SA ; LAFARGE NORTH AMERICA INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH SECOND LIEN ADMINISTRATIVE AGENT AG AS

Inventor(s): (std): CALLAIS B ; CALLAIS BRUNO ; JALLON PAUL ; JALLOU P ; LAURENT J L ; LAURENT JEAN LOUIS ; ZHALLON POL ; RIGODON MISHEL ; PAUL JALLON ; P JALLOU ; MICHEL RIGAUDON ; LORAN ZHAN LUI ; KALLE BRJUNO ; J L LAURENT ; JEAN LOUIS LAURENT ; BRUNO CALLAIS ; B CALLAIS ; RIGAUDON MICHEL

Inventor(s): ZHALLON POL' ; RIGODON MISHEL' ; RIGAUDONMICHEL ; J L LAURENT ; LAURENT JEAN LUIS ; LORAN ZHAN-LUI

Agent(s): SPRUSON AND FERGUSON; OGILVY RENAULT LLP SENCRL SRL; ALESSANDRI; CABINET HIRSCH POCHART ET ASSOCIES; BUCHANAN INGERSOLL AND ROONEY PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

5) Family number: 33256062 (US2006190099A)

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Title: CLOSED LOOP CONTROL ON LIQUID DELIVERY SYSTEM ECP SLIM CELL

Abstract: A method for controlling liquid delivery in a processing chamber. The method includes generating an analog input (AI) signal proportional to a process variable and calculating an analog output (AO) signal based on a setpoint and a deadband. The setpoint is a target value of the process variable and the deadband is an allowable tolerance around the setpoint that determines when the control logic is activated to control the process variable. The method further includes transmitting the AO signal to a control device and adjusting the process variable proportional to the value of the AO signal.

Classifications:

International (IPC 8-9): G05B13/02 G05D9/00 (Advanced/Invention);

G05D11/00 (Advanced/Non-invention);

G05B13/02 G05D9/00 (Core/Invention);

G05D11/00 (Core/Non-invention)

CPC: Y10T137/0324 Y10T137/0352 Y10T137/0357 Y10T137/0363

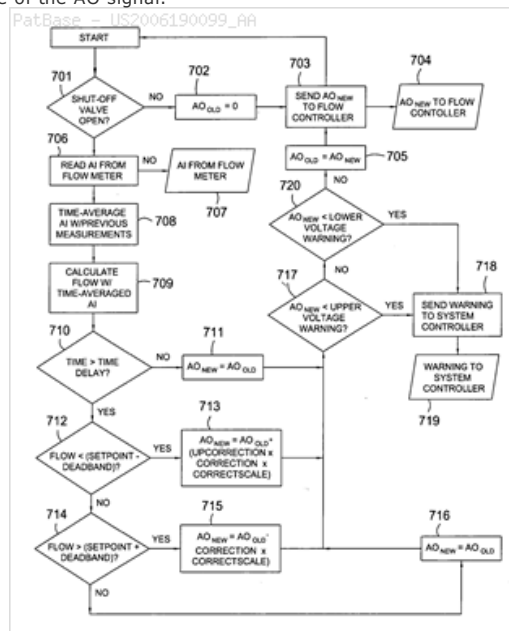
G05B13/021

European: G05B13/02A1

US: 137/2 137/7 137/8 137/9 700/275 700/28 700/281 700/282 700/283

700/289 700/80 702/45 702/46 702/47 702/55 73/1.16 73/1.36 73/1.73

73/1.74 73/11.6 73/13.6 73/17.3 73/17.4



Family:

Publication number	Publication date	Application number	Application date
US2006190099 AA	20060824	US20050064747	20050223
US7155319 BB	20061226	US20050064747	20050223

Priority:

Probable Assignee: APPLIED MATERIALS INC

Assignee(s): (std): APPLIED MATERIALS INC ; CHEN DAVID Z ; D AMBRA ALLEN L ; LI TAO ; NANGOY ROY C ; RABINOVICH YEVGENIY

Inventor(s): (std): D AMBRA ALLEN L ; NANGOY ROY C ; RABINOVICH YEVGENIY ; CHEN DAVID Z ; LI TAO

Inventor(s): NANGOY ROY ; D AMBRA ALLEN ; CHEN DAVID

Agent(s): PATTERSON AND SHERIDAN LLP

6) Family number: 42771081 (US2009004378A)

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Title: METHOD FOR SMOOTHING CEMENTITIOUS SLURRY IN THE PRODUCTION OF STRUCTURAL CEMENTITIOUS PANELS

Abstract: A vibrating smoothing device or plate transverse to a direction of travel of deposited gypsum-cementitious slurry and embedded chopped fibers. The plate is used to smooth the top surface of the slurry panel as it exits a first fiber embedment station and a second slurry depositing station before passing through a second fiber embedment station of a structural cementitious panel production line to remove grooves and other non-uniform surface imperfections to have the slurry cover the embedded fibers. The plate is designed to float over the surface of the formed slurry without tearing or otherwise damaging the surface of the heavily fiber reinforced surface layers of the formed slurry before it sets. The vibrating plate is pivotally mounted on the web production line so it can float over the panel surface during use, but be raised off the line when not in use.

Classifications:

International (IPC 8-9): B05C1/08 B05D1/00 B05D7/00 B28B1/093 B28B1/52 B28B13/02 B32B13/02 C04B28/14 (Advanced/Invention); B05C1/08 B05D1/00 B28B1/52 B28B13/00 B32B13/00 (Core/Invention)

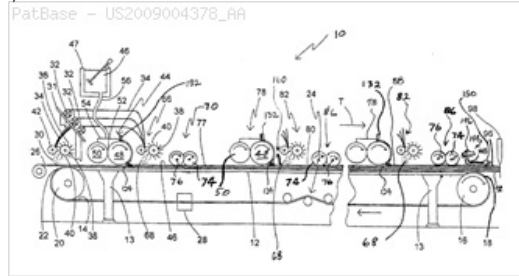
CPC: Y02W30/92 Y02W30/94 B28B19/0092 B28B1/08 B28B1/29 B28B23/0006 C04B28/14 C04B2111/00612

European: B28B1/08 B28B1/29 B28B19/00K B28B23/00A C04B28/14 M04B111/00T6

US: 427/180 427/180P 427/403

JP F-Term: 4G052 4G052/GA02 4G052/GA04 4G052/GA05 4G052/GA12 4G052/GA23 4G052/GB64 4G052/GB68 4G052/GB74 4G052/GC06

JP F-Index: B28B1/52



Family:

Publication number	Publication date	Application number	Application date
CA2685810 AA	20091029	CA20082685810	20080620
CA2685810 C	20150407	CA20082685810	20080620
CL2008001923 A1	20081107	CL20080001923	20080627
JP2010532285 T2	20101007	JP20100515001T	20080620
JP5494976 B2	20140521	JP20100515001T	20080620
MX2009011779 A1	20091209	MX20090011779	20080620
US2009004378 AA	20090101	US20070771521	20070629
US8163352 BB	20120424	US20070771521	20070629
WO09006048 A2	20090108	WO2008US67731	20080620
WO09006048 A3	20090305	WO2008US67731	20080620

Priority:

US20070771521 20070629 WO2008US67731 20080620

Probable Assignee: UNITED STATES GYPSUM CO

Assignee(s): (std): JONES JOHN G ; UNITED STATES GYPSUM CO

Assignee(s): UNITED STATES GYPSUM COMPANY

Inventor(s): (std): JONES JOHN G

Inventor(s): JOHN G JONES

Agent(s): GOWLING LAFLEUR HENDERSON LLP; CLARKE; NOVAK DRUCE AND QUIGG LLP ANTHONY P VENTURINO; NOVAK DRUCE AND QUIGG LLP; DAVID F; PHILIP T; VENTURINO ANTHONY P

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 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 59510085 (US2015197403A)

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Title: METHOD AND DEVICE FOR CLOCKING IN BOOK BLOCKS

Abstract: An apparatus for supplying book blocks includes a feed conveyor to successively transport the book blocks with optional spacing. A buffer conveyor, arranged downstream of the feed conveyor and connected to a control unit, receives a plurality of the book blocks from the feed conveyor and transports them at a first speed, fitting against each other without a gap. A downstream clocking-in conveyor, coupled to the control unit, respectively receives a single book block from the buffer conveyor at the first speed, accelerates and transports the single book block from the first speed to a second speed. A downstream despatch conveyor includes a plurality of spaced apart pushers defining respective gaps between successive pushers. Each book is transported at the second speed toward the despatch conveyor and is inserted into one of the gaps between two successive pushers on the despatch conveyor.

Classifications:

International (IPC 8-9): B65G37/00 B65G43/08 B65G47/31 B65H31/30 B65H5/00 B65H7/00 (Advanced/Invention)

Publication number	Publication date	Application number	Application date
DE502014001590 D1	20161110	DE201450001590T	20141211
EP2883820 A1	20150617	EP20140197357	20141211
EP2883820 B1	20160928	EP20140197357	20141211
US2015197403 AA	20150716	US20140571780	20141216
US9340380 BB	20160517	US20140571780	20141216

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

European: B28B17/00H B28B19/00K B28B5/02C2

Publication number	Publication date	Application number	Application date
EP0422833 A2	19910417	EP19900310878	19901004
EP0422833 A3	19911204	EP19900310878	19901004
GB2236876 A1	19910417	GB19890023034	19891012
GB8923034 A0	19891129	GB19890023034	19891012

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GB19890023034 19891012

Probable Assignee: BPB IND PLC

Assignee(s): (std): BPB IND PLC ; BPB INDUSTRIES PLC

Assignee(s): BPB INDUSTRIES PUBLIC LIMITED COMPANY ; BPB IND PUBLIC CO LTD

Inventor(s): (std): CHILDS PETER ALBERT

Inventor(s): PETER ALBERT CHILDS

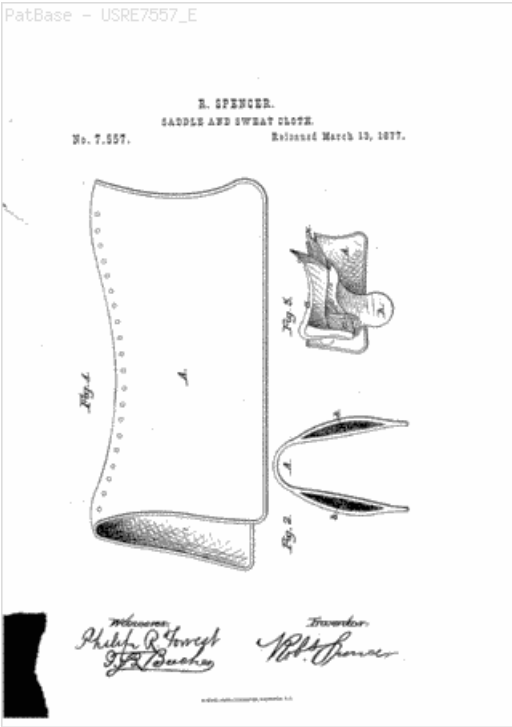
Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

9) Family number: 24073097 (US7557 E)

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Classifications:

US: 54/66



Family:

Publication number	Publication date	Application number	Application date
USRE7557 E	00000000		00000000

10) Family number: 53445099 (US2013090747A)

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Title: CLOSED-LOOP CONTROL DEVICE

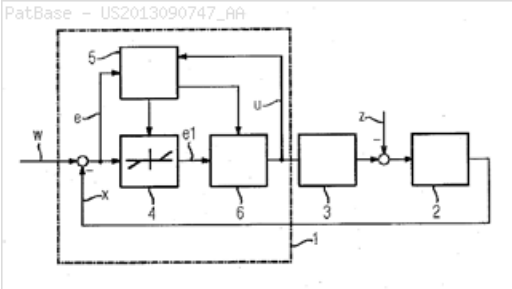
Abstract: A closed-loop control device for a process, in which a dead band element is connected upstream of a linear dynamic controller to reduce actuating interventions in the steady control state. If a control deviation (e) of the control loop exceeds a first threshold value (s1), then the dead band element is automatically deactivated, where a control deviation (e1) passed via the dead band element is uninfluenced by a set dead band in the inactive state. If the control deviation (e) then undershoots a second threshold value that is less than the first threshold value, then the dead band element is automatically re-activated. This reduces the energy consumption and wear of an actuator and improves the control behavior with regard to steady-state accuracy and the control behavior of the control loop.

Classifications:

International (IPC 8-9): G05B13/02 G05B19/04 (Advanced/Invention)

CPC: G05B13/0205

US: 1/1 700/28



Family:

Publication number	Publication date	Application number	Application date
CN103034135 A	20130410	CN201210378089	20121008

CN103034135 B	20160120	CN201210378089	20121008
DE502011001933 D1	20140220	DE201150001933T	20111006
EP2579112 A1	20130410	EP20110184055	20111006
EP2579112 B1	20140101	EP20110184055	20111006
US2013090747 AA	20130411	US20120646234	20121005
US9152134 BB	20151006	US20120646234	20121005

Priority:

EP20110184055 20111006

Probable Assignee: SIEMENS AG

Assignee(s): (std): SIEMENS AG

Assignee(s): SIEMENS AKTIENGESELLSCHAFT

Inventor(s): (std): GRIEB HERBERT ; PFEIFFER BERND MARKUS DR ; LOHNER LENA DR ; PFEIFFER BERND MARKUS ; LOHNER LENA

Agent(s): COZEN

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

11) Family number: 30119111 (US2002187296A)

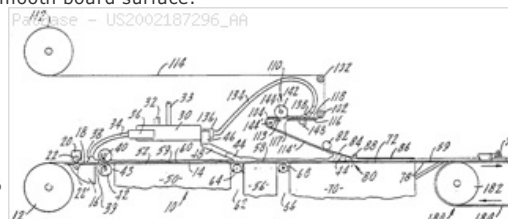
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Title: GLASS REINFORCED GYPSUM BOARD AND METHOD OF MANUFACTURE

Abstract: A method of manufacture of multilayer gypsum board, and a multilayer gypsum board, having face sheets comprising randomly oriented inorganic or glass fibers completely impregnated with a gypsum slurry penetrating through the random interstices between the inorganic fibers and coating the board surfaces with gypsum slurry. Wet gypsum board passes through a board forming station having upper and lower forming plates, set at an angle relative to each other and being separated by a predetermined dimension substantially equal to the desired thickness of the manufactured gypsum board product. Additives in the gypsum, such as engineered polymers, provide for a better surface for coating. The gypsum board has a first layer of a mixture of set gypsum having an outer surface and the polymeric compound additive entrained therein and impregnated in a thin sheet of randomly aligned inorganic fibers to essentially encase the core gypsum within two facing layers. An edger bar assembly includes bases mounted on pneumatic arms at opposite lateral ends supporting an edger bar extending therebetween, and each base includes an attached flapper edge mechanism having an inboard surface abutting the gypsum board edge to retain unset slurry skimmed off the wet gypsum board surface by the edger bar from overflowing onto the conveyor belt. A microporous fluid bed mounted longitudinally across the board injects a fluid film under pressure by means of micropores into the interface between the bed surface and the top surface of the gypsum board to provide an ultrasmooth board surface.

Classifications:

International (IPC 8-9): B05D3/00 B05D5/00 B05D7/24 B23B13/04 B28B1/30 B28B1/50 B28B1/52 B28B11/08 B28B19/00 B28B23/00 B28B23/18 B28B5/02 B29D99/00 B32B1/04 B32B13/00 B32B13/02 B32B13/04 B32B13/06 B32B13/08 B32B13/12 B32B13/14 B32B15/08 B32B17/04 B32B17/06 B32B23/04 B32B25/02 B32B25/10 B32B27/04 B32B27/08 B32B27/10 B32B27/12 B32B27/14 B32B27/28 B32B27/30 B32B27/32 B32B27/34 B32B27/36 B32B3/00 B32B3/04 B32B3/06 B32B31/00 B32B5/02 B32B5/12 B32B5/14 B32B5/18 B32B5/22 B32B5/26 B32B5/28 B32B7/02 B32B7/04 B32B7/08 B32B7/10 C04B14/38 C04B14/42 C04B16/06 C04B24/00 C04B24/24 C04B24/26 C04B28/14 C04B41/52 D04H3/08 D06N7/00 E04C2/04 E04C2/06 E04F15/16 F16G5/00 (Advanced/Invention);



B32B13/14 C04B111/00 C04B111/27 C04B111/60 C04B28/14 (Advanced/Non-invention); B05D3/00 B05D7/24 B28B11/00 B28B11/08 B28B19/00 B28B23/00 B32B1/00 B32B13/00 B32B15/08 B32B25/00 B32B27/04 B32B27/14 B32B3/00 B32B3/06 B32B5/12 B32B7/02 D04H3/08 E04C2/00 E04C2/04 E04C2/26 F16G5/00 (Core/Invention); B28B B32B D04H F16G (Subclass/Invention)

International (IPC 1-7): B05D7/24 B23B13/04 B28B1/52 B28B11/04 B28B19/00 B28B23/04 B28B23/18 B28B23/22 B28B3/12 B28B5/02 B32B B32B1/04 B32B13/00 B32B13/02 B32B13/06 B32B13/14 B32B15/08 B32B25/02 B32B25/10 B32B27/04 B32B27/12 B32B27/14 B32B3/02 B32B3/06 B32B31/00 B32B5/02 B32B5/12 B44C1/26 B44C1/28 B44C3/12 D04H D04H3/08 E04C2/26 F16G F16G5/00 H01B13/10 H01B13/26

CPC: B32B2255/24 Y10T156/1062 Y10T156/1011 Y10T156/1034 Y10T156/1043 Y10T428/22 Y10T428/23 Y10T428/232 Y10T428/237 Y10T428/239 B28B5/02 B28B5/026 B28B5/027 Y10T428/24355 Y10T428/24802 Y10T428/24851 B28B3/123 Y10T428/31786 Y10T428/31938 Y10T428/31971 Y10T442/102 Y10T442/133 Y10T442/171 B28B7/0079 Y10T442/674 B32B5/145 B32B5/28 B32B17/04 B32B2307/51 B32B2307/542 B32B2307/56 B32B2307/73 B32B2307/744 C04B2111/60 B28B23/0006 B32B5/22 B32B5/26 B32B7/08 B32B7/10 B32B13/08 B32B13/12 B32B27/08 B32B27/10 B32B27/28 B32B27/30 B32B27/308 B32B27/32 B32B27/34 B32B27/36 B32B2250/44 B32B2260/021 B32B2260/044 B32B2260/046 B32B2260/10 B32B2307/102 B32B2307/202 B32B2307/304 B32B2307/3065 B32B2307/402 B32B2307/414 B32B2307/514 B32B2307/54 B32B2307/554 B32B2307/558 B32B2307/58 B32B2307/5825 B32B2307/71 B32B2307/7265 B32B2607/00 C04B14/42 C04B24/2623 C04B24/2682 C04B24/42 B32B13/04 B32B3/04 B32B5/022 B32B5/18 B32B7/02 B32B13/14 B32B27/12 B32B27/306 B32B2255/02 B32B2255/26 B32B2255/28 B32B2262/101 B32B2307/536 B32B2307/72 B32B2419/00 C04B28/14 C04B2111/00405 C04B2111/00612 Y10T428/249955 Y10T428/31504 Y10T428/31678 Y10T428/31993 Y10T442/20 Y10T442/2926 Y10T442/604 Y10T428/24992 Y10T442/2139 Y10T442/60 E04C2/06 B29D99/0021 E04C2/043 B32B2262/00 B32B2391/00 B32B2307/7242 B32B2581/00 B28B19/0092 B32B13/02 B28B11/0845

European: B28B11/08C B28B19/00K B28B23/00A B28B3/12B B28B5/02 B28B5/02C B28B5/02C2 B28B7/00F5 B32B13/02 B32B13/04 B32B13/14 B32B27/12 B32B27/30C B32B3/04 B32B5/02A B32B5/18 B32B7/02 C04B28/14 E04C2/04C L32B255/02 L32B255/24 L32B255/26 L32B255/28 L32B262/10A L32B307/536 L32B307/720 L32B419/00 M04B111/00P34 M04B111/00T6

US: 1/1 118/123 118/123S 156/202 156/216 156/221 156/256 156/280 156/346 156/346S 156/348 156/39 156/39S 156/40 156/41 156/41P 156/45 156/52 264/129 264/255 264/256 264/261 264/295 264/339 425/101 425/104 425/110 425/115 425/123 425/130 425/220 425/224 425/346R 425/96 427/299 427/372.2 427/372.200S 428/141 428/141P 428/195.1 428/195.100S 428/201 428/201S 428/218 428/218P 428/306.6 428/306.600S 428/411.1 428/411.100S 428/432 428/432P 428/457 428/457S 428/480 428/480S 428/523 428/523S 428/532 428/532S 428/537.5 428/537.500S 428/67 428/68 428/7 428/70 428/703 428/703S 428/74 428/76 442/172 442/172S 442/2 442/20 442/20S 442/2S 442/327 442/327S 442/331 442/331S 442/394 442/42 442/42P 442/59 442/59S 442/76 442/76S 524/2 524/2S

JP F-Term: 2E162 2E162/CA16 2E162/FA02 2E162/FA14 2E162/FD04 2E162/FD08 4D075 4D075/AE06 4D075/CA18 4D075/CA47 4D075/DA04 4D075/DB13 4D075/DB20 4D075/DC03 4D075/EA06 4D075/EA10 4D075/EB03 4D075/EB07 4D075/EB12 4D075/EB13 4D075/EB14 4D075/EB15 4D075/EB18 4D075/EB22 4D075/EB35 4D075/EB37 4D075/EB43 4D075/EC03 4D075/EC22 4F100 4F100/AA00/A 4F100/AA00/C 4F100/AE06/A 4F100/AE06/B 4F100/AE06/C 4F100/AG00/A 4F100/AG00/C 4F100/AJ04/A 4F100/AJ04/C 4F100/AK01/A 4F100/AK01/C 4F100/AK04/A 4F100/AK04/C 4F100/AK07/A 4F100/AK07/C 4F100/AK09/A 4F100/AK09/C 4F100/AK12/A 4F100/AK12/C 4F100/AK16/A 4F100/AK16/C 4F100/AK17/A 4F100/AK17/C 4F100/AK18/A 4F100/AK18/C 4F100/AK26/A 4F100/AK26/C 4F100/AK28/A 4F100/AK28/C 4F100/AK45/A 4F100/AK45/C 4F100/AK46/A 4F100/AK46/C 4F100/AK54/A 4F100/AK54/C 4F100/AK73/A 4F100/AK73/C 4F100/AN01/A 4F100/AN01/C

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 C04B14/42/Z C04B16/06/Z C04B24/00 C04B28/14

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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US20130941950	20130715	US20160044639	20160216	US20170857922	20171229

Probable Assignee: CERTAINTEEED GYPSUM INC

Assignee(s): (std): BOYDSTON GERALD D ; BOYDSTON JERRY D ; FAHEY MICHAEL P ; BPB PLC ; BPB IND LTD ; BPB LTD ; CERTAINTEEED GYPSUM INC ; CERTAINTEEED GYPSUM INC STAR ; HAUBER ROBERT J ; SANDERS CHRISTOPHER J ; HENNIS MARK E ; STUART TROY R ; WASCOMB GREGORY L ; SETEHTID DZHIPSUM INK ; HAUBER ROBERT JOSEPH ; CHOWNING MATTHEW J ; BPB LTD A U K CORP

Assignee(s): CHOWING MATTHEW J ; BPB PLC PARK HOUSE ; BPB ; BPB A U K CORP LTD ; BPB A UK BINLEY CORP LTD ; BPB A UK CORP LTD

Inventor(s): (std): HAUBER ROBERT J ; SANDERS CHRISTOPHER J ; HENNIS MARK E ; FAHEY MICHAEL P ; CHOWING MATTHEW J ; BOYDSTON GERALD D ; STUART TROY R ; GERKEN ROBERT B ; MICHAEL P FAHEY ; CHOWNING MATTHEW J ; HENNIS MARK E FAHEY MICHAEL P ; FAHEY MICHAEL ; BOYDSTON GERALD ; HAUBER ROBERT ; HENNIS MARK ; WASCOMB GREGORY L ; BOYDSTON JERRY D ; BOYDSTON DZHERRI D ; KHOBER ROBERT DZH ; JERRY D BOYDSTON ; SANDERS CHRISTOPHER ; COLLEGE JOHN ; MARK E HENNIS ; ROBERT JHAUBER ; ROBERT J HAUBER ; MICHAEL P FAHEY ; CHRISTOPHER J SANDERS ; FACH MIKE P ; HAUBER ROBERT JOSEPH

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Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; SPRUSON AND FERGUSON; CULLENS PTY LTD; CHRYSILIOU IP; TATLOCKS CHRYSILIOU IP; HALFORDS IP; GOWLING LAFLEUR HENDERSON LLP; RICHES MCKENZIE AND HERBERT LLP; RIDOUT AND MAYBEE LLP; ADOLF LUEKEN HOEFELICH SAWODNY RECHTS U PATENTANWALTE; CHAPMAN HELGA CLAIRE; PUGSLEY VICTORIA ANTONIETTA; BOTELLA ANTONIO; ISERN JORGE; HIROE AND ASSOCIATES PATENT PROFESSIONAL CORP; HIROE TAKENORI; PATENT AND TRADEMARK DOCKET CLERK, RYNDAL AND SURI; PATENT AND TRADEMARK DOCKET CLERK RYNDAL AND SURI; VANGELIS ECONOMOU, C/O IPHORGAN LTD; VANGELIS ECONOMOU C O IPHORGAN LTD; VANGELIS ECONOMOU, C/O IPHORGAN LTD; GRAY ROBINSON ATTN STEFAN V STEIN IP DEPT; RYNDAL AND SURI; VANGELIS; RYNDAL AND SURI VANGELIS ECONOMOU; VANGELIS ECONOMOU IPHORGAN LTD; ECONOMOU IP LAW; GRAYROBINSON PA; MICHAEL J; COLITZ MICHAEL J; ECONOMOU VANGELIS; COLITZ MICHAEL J III

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 YU ZA ZM ZW

12) Family number: 50129148 (US2013000845A)

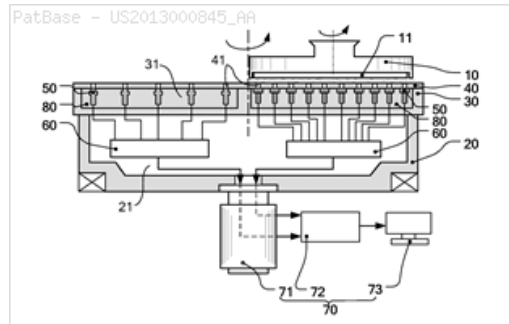
PatBase

Title: DEVICE AND METHOD FOR MEASURING THICKNESS OF SLURRY AND CHEMICAL MECHANICAL POLISHING APPARATUS COMPRISING THE DEVICE

Abstract: A device for measuring a thickness of a slurry used in a chemical mechanical polishing apparatus and a method using the same are provided. The chemical mechanical polishing apparatus comprises a polishing head (10), a rotary table (20), a polishing platen (30) and a polishing pad (40). The device for measuring the thickness of the slurry comprises: a distance sensor (50) disposed in the polishing platen (30) for measuring a distance between the distance sensor (50) and a wafer (11) in the polishing head (10); a processing unit (70) (60) disposed in the rotary table (20) and connected to the distance sensor (50) for converting a measuring signal from the distance sensor (50) into standard electrical signal; a processing unit (70) connected to distance converters (60) for acquiring the standard electrical signal to obtain a thickness of the slurry between the polishing head (10) and the polishing pad (40). A chemical mechanical polishing apparatus comprising the device for measuring the thickness of the slurry is also provided.

Classifications:

International (IPC 8-9): B24B29/00 B24B37/00 B24B37/02 B24B49/00 B44C1/22 G01B21/08 G01B7/06 H01L21/00 H01L21/304 H01L21/66 (Advanced/Invention)
CPC: G01B21/08 G01B7/10
US: 156/345.13 324/229



Family:

Publication number	Publication date	Application number	Application date
CN102278967 A	20111214	CN201110058422	20110310
TW201236814 A	20120916	TW20110128835	20110812
US2013000845 AA	20130103	US20110387964	20110607
WO12119355 A1	20120913	WO2011CN75423	20110607

Priority:

CN201110058422 20110310 WO2011CN075423 20110607

Probable Assignee: HWATSING TECHNOLOGY CO LTD

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Assignee(s): TSINGHUA UNIV ; TSINGHUA UNIVERSITY ; HWATSING TECHNOLOGY CO LTD

Inventor(s): (std): HE YONGYONG ; LU XINCHUN ; LUO JIANBIN ; ZHAO DEWEN ; ZHAO DE WEN ; LUO JIAN BIN ; LU XIN CHUN ; HE YONG YONG

Agent(s): TSINGYIHUA INTELLECTUAL PROPERTY LLC

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

13) Family number: 53956177 (US2014288697A)

PatBase

Title: SORTING MECHANISM WITH DYNAMIC DISCHARGE

Abstract: The invention provides a sorting mechanism arranged to empty or discharge a container for carrying a load, e.g. totes in a luggage handling system. The sorting mechanism has a plurality of tilting elements T1-T11 for receiving and transporting the container in a transport direction. The tilting elements T1-T11 are arranged neighbouring each other, and they are individually

tiltable by controllable tilting actuators, e.g. servo motors. The tilting elements T1-T11 are controlled in response to at least one position signal such that a group of at least two tilting elements T1-T11 perform a coordinated tilting motion, when the container passes the sorting mechanism. Each tilting element T1-T11 has a length of 30-50 percent of the container. The tilting elements T1-T11 are stationary, and the container is driven forward by belts on each of the tilting elements T1-T11.

Classifications:

International (IPC 8-9): B65G17/16 B65G43/00 B65G43/08 B65G47/38 B65G47/40 B65G47/94 G06F7/00 (Advanced/Invention)

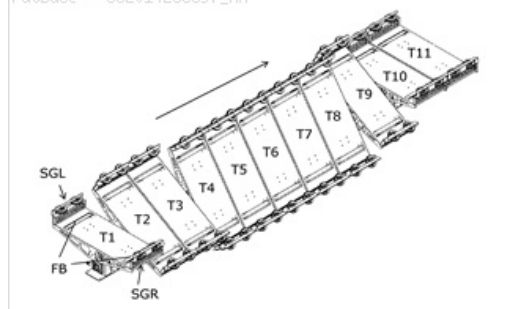
CPC: B65G47/945 B65G2201/0264 B65G47/962 B65G43/08 B64F1/368 B65G43/10

US: 700/218

JP F-Term: 3F015 3F015/AA06 3F015/BA02 3F015/CA02 3F015/FA02 3F015/GA01 3F027 3F027/AA01 3F027/CA01 3F027/DA16 3F027/EA04 3F027/FA02 3F034 3F034/GA05 3F034/GB14 3F034/GC06

JP F-Index: B65G17/16/A B65G43/00/Z B65G47/40

PatBase - US2014288697_AA



Family:

Publication number	Publication date	Application number	Application date
CN104093651 A	20141008	CN201180076273	20111121
CN104093651 B	20161221	CN201180076273	20111121
DE202011110965 U1	20180104	DE201120110965U	20111121
DE202011110967 U1	20180104	DE201120110967U	20111121
DE602011029902 D1	20161013	DE201160029902T	20111121
EP2782855 A1	20141001	EP20110788026	20111121
EP2782855 B1	20160831	EP20110788026	20111121
ES2597629 T3	20170119	ES20110788026T	20111121
JP2015501770 T2	20150119	JP20140542715T	20111121
JP5879443 B2	20160308	JP20140542715T	20111121
US2014288697 AA	20140925	US20110357999	20111121
US2018099818 AA	20180412	US20170837307	20171211
US9878852 BB	20180130	US20110357999	20111121
WO13075714 A1	20130530	WO2011DK50442	20111121

Priority:

DE201120110965U 20111121 DE201120110967U 20111121 WO2011DK50442 20111121
EP20110788026 20111121 US20140357999 20140513 US20170837307 20171211

Probable Assignee: CRISPLANT A S

Assignee(s): (std): BEUMER GROUP AS ; CHRISTENSEN JAN ; CRISPLANT AS ; SORENSEN BRIAN LYNGE ; SOERENSEN BRIAN LYNGE

Assignee(s): CRISPLANT A S ; BEUMER GROUP A S

Inventor(s): (std): SOERENSEN BRIAN LYNGE ; SORENSEN BRIAN LYNGE ; CHRISTENSEN JAN

Agent(s): PLOUGMANN AND VINGTOFT A S; PLOUGMANN VINGTOFT A S; ISERN JORGE; AOKI ATSUSHI; SHIMADA TETSURO; KNOBBE MARTENS OLSON AND BEAR LLP; PLOUGMANN AND VINGTOFT A/S

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

14) Family number: 32228191 (CN1644340A)

© PatBase

Title: Automatic non-supporting board manufacture and system of light batten

Abstract: An automatic technology for producing light strip plates without pallet includes such steps as mixing raw materials, extruding out for shaping, conveying while cutting, dual-speed conveying for separating, outputting, stacking and curing. Its primary production line is composed of extruder, synchronous conveyer, non-power conveyer, dual-speed conveyer, output roller way, cutting machine and stacking machine.

Classifications:

International (IPC 8-9): B28B11/24 B28B13/00 B28B3/22 B28B3/26 (Advanced/Invention); B28B11/00 B28B13/00 B28B3/20 B28B3/26 (Core/Invention)

International (IPC 1-7): B28B11/24 B28B13/00 B28B3/22 B28B3/26

Family:

Publication number	Publication date	Application number	Application date
CN1251850 C	20060419	CN200410080059	20040924
CN1644340 A	20050727	CN200410080059	20040924

Priority:

CN200410080059 20040924

Probable Assignee: SI GUOQUAN

Assignee(s): (std): SI GUOQUAN

Inventor(s): (std): SI GUOQUAN

Inventor(s): GUOQUAN SI

Title: BOARD DRYING PROCESS AND DRIER

Abstract: PCT No. PCT/EP94/02479 Sec. 371 Date Jan. 25, 1996 Sec. 102(e) Date Jan. 25, 1996 PCT Filed Jul. 27, 1994 PCT Pub. No. WO95/04908 PCT Pub. Date Feb. 16, 1995 In order to dry boards, the boards are guided on racks through a drier and brought into contact with drying air in two stages. In a stage A with a higher drying power, the drying air is supplied at a higher temperature and with an at least average humidity, and in the other stage B, it is supplied at an average temperature and with a low humidity. The waste heat of the outgoing air from stage A is used for preheating the drying air. This process should reduce the consumption of primary energy. For that purpose, a process is known that consists of also using the outgoing air condensation heat. This has the inconvenience, however, of requiring substantially more secondary energy, as important air mass flows are required to transfer heat because of the low condensation temperature. Primary energy should be reduced by using condensation heat without substantially increasing secondary energy requirements. According to the invention, the outgoing air from stage A is supplied to stage B through a heat exchanger arranged in the rack of the drier. The drying air of stage B is supplied in counter-current through the drier with a low humidity and temperature, so that the boards are dried in stage B both by condensation heat and by radiant heat. Thus only a reduced mass flow of drying air is required to transfer the condensation heat. The consumption of primary and secondary energy is low. This invention is suitable for drying boards as for buildings and gypsum plain boards or fibre boards.

Classifications:

International (IPC 8-9): F26B15/12 F26B15/18 F26B21/00 F26B21/04 F26B21/06 F26B23/00 F26B23/02 F26B23/10

F26B3/28 (Advanced/Invention);

F26B21/00 (Advanced/Non-invention)

International (IPC 1-7): F26B15/12 F26B15/18 F26B21/00 F26B21/04 F26B23/00 F26B3/00 F26B7/00

CPC: Y02P70/405 F26B3/283 F26B15/12 F26B21/06 F26B23/002

F26B23/02 F26B23/10

European: F26B15/12 F26B21/06 F26B23/00B2 F26B23/02 F26B23/10 F26B3/28B

US: 34/459 34/489 34/496 34/500 34/504 34/619 34/623 34/636

JP F-Term: 3L113 3L113/AA02 3L113/AB01 3L113/AC04 3L113/AC16

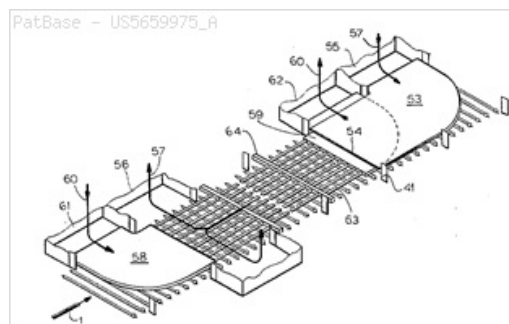
3L113/AC31 3L113/AC42 3L113/AC45 3L113/AC46 3L113/AC49

3L113/AC52 3L113/AC53 3L113/AC54 3L113/AC63 3L113/AC67

3L113/AC72 3L113/AC73 3L113/AC76 3L113/AC77 3L113/AC79

3L113/BA26 3L113/CA02 3L113/CA04 3L113/CA08 3L113/CA09 3L113/CA11 3L113/DA02 3L113/DA06 3L113/DA13 3L113/DA15

JP F-Index: F26B15/12/B F26B15/18/B F26B21/00/M F26B21/04/A



Family:

Publication number	Publication date	Application number	Application date
AT159806 E	19971115	AT19940926123T	19940727
AU199476096 A1	19950228	AU19940076096	19940727
CA2169305 AA	19960209	CA19942169305	19940727
CA2169305 C	20011030	CA19942169305	19940727
DE4326877 C1	19941013	DE19934326877	19930811
DE59404486 D1	19971204	DE19945004486	19940727
EP0712481 A1	19960522	EP19940926123	19940727
EP0712481 B1	19971029	EP19940926123	19940727
ES2109013 T3	19980101	ES19940926123T	19940727
JP2664000 B2	19971015	JP19940506189T	19940727
JP8512399 T2	19961224	JP19950506189T	19940727
US5659975 A	19970826	US19960591545	19960125
USRE37557 E	20020226	US19990378083	19990819
WO9504908 A1	19950216	WO1994EP02479	19940727

Priority:

DE19934326877 19930811	DE19934326877 19930811	DE19945004486 19940727
WO1994EP02479 19940727	US19960591545 19960125	US19990378083 19990819

Probable Assignee: GRENZBACH BSH GMBH

Assignee(s): (std): BABCOCK BSH WAS BUTTNER SCH AG ; BAHNER FRIEDRICH ; BRAUN MANFRED ; LANG KARL FRIEDRICH ; LEHN GERHARD ; MAURER KARL ; SCHMIDT MANFRED ; STEINKUHL JOSEF ; BABCOCK BSH AG

Assignee(s): BABCOCK BSH AG VORMALS BUETTNER SCHILDE HAAS AG 47 ; BABCOCK BSH AG VORMALS BUETTNER SCHILDE HAAS AG 47829 KREFELD DE ; BABCOCK BSH AG WAS BUETNER SCHI.. ; BABCOCK BSH AG WAS BUETTNER SCHILDE HAAS AG 47829 KREFELD DE.. ; BABCOCK BSH AKTIENGESELLSCHAFT VORMALS BUETNER SCH ; BABCOCK BSH AKTIENGESELLSCHAFT VORMALS BUETTNER SC ; GRENZBACH BSH GMBH ; BABUKOTSUKU BEE ESU HAA AG ; VORMALS BUTTNER SCHILDE HAAS AG ; BABCOCK BSH AKTIENGESELLSCHAFT ; BABCOCK BSH AKTIENGESELLSCHAFT VORMALS BUTTNER SCH ; BABCOCK BSH AKTIENGESELLSCHAFT VORMALS BUETTNER SCHILDE HAAS AG ; BABCOCK BSH AKTIENGESELLSCHAFT VORMALS BUTTNER SCHILDE HAAS AG ; BABCOCK BSH AKTIENGESELLSCHAFT VORMALS BUETNER SCHI ; BABCOCK BSH AG WAS BUETTNER SCHILDE HAAS AG.. ; BABCOCK BSH AG WAS BUTTNER SCHILDE HAAS AG..

Inventor(s): (std): BAHNER FRIEDRICH ; BRAUN MANFRED ; FRIEDRICH BAHNER ; GERHARD LEHN ; JOSEF STEINKUHL ; KARL FRIEDRICH LANG ; KARL MAURER ; LANG KARL FRIEDRICH ; LEHN GERHARD ; MANFRED BRAUN ; MANFRED SCHMIDT ; MAURER KARL ; STEINKUHL JOSEF ; SCHMIDT MANFRED ; BAHNER FRIEDRICH

Inventor(s): BAANAA FURIITORITSUHI ; SCHMIDT MANFRED 36280 OBERAULA DE ; SHUMITSUTO MANFUREETO ; SHUTANKUURU YOOZEFU ; STEINKUHL JOSEF 36251 BAD HERSFELD DE ; STEINKUHL JOSEF D 36251 BAD HERSFELD DE ; SCHMIDT MANFRED D 36280 OBERAULA OBERODE DE ; MAURER KARL D 36251 BAD HERSFELD DE ; LEHN GERHARD D 36251 BAD HERSFELD DE ; LANG KARL FRIEDRICH D 36251 BAD HERSFELD DE ; BRAUN MANFRED D 36251 BAD HERSFELD DE ; BAHNER FRIEDRICH D 36199 ROTENBURG FULDA DE ; MAURER KARL 36251 BAD HERSFELD DE ; RANGU KAARUUFURIITORITSUHI ; REEN GERUHARUTO ; MAURAA KAARU ; LEHN GERHARD 36251 BAD HERSFELD DE ; LANG KARL FRIEDRICH 36251 BAD HERSFELD DE ; BRAUN MANFRED 36251 BAD HERSFELD DE ; BURAU MANFUREETO ; BAHNER FRIEDRICH 36199 ROTENBURG DE

Agent(s): GOUDREAU GAGE DUBUC

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP KR LU MC NL PT SE US

16) Family number: 4670238 (US5030312A)

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Title: ELECTRO-CHEMICAL CELLS

Abstract: A method of manufacturing elements of active material for use in the construction of electrodes for secondary electro-chemical cells characterized by comprising the steps of: rolling active material mixture in a first direction to produce elongate strip, cutting the strip to define cut sheets of rolled material, transporting a cut sheet in said one direction on a movable end, first, conveyor, moving the movable end of said first conveyor to transfer said cut sheet to a stationary, second conveyor extending substantially perpendicular to said first conveyor, operating said second conveyor to transfer said cut sheet in a second direction substantially perpendicular to said first direction to a laminating station wherein the cut sheet is laminated with other cut sheets, and, rolling the laminated cut sheets in said second direction. An apparatus for use in the manufacture of active material elements is also disclosed.

Classifications:

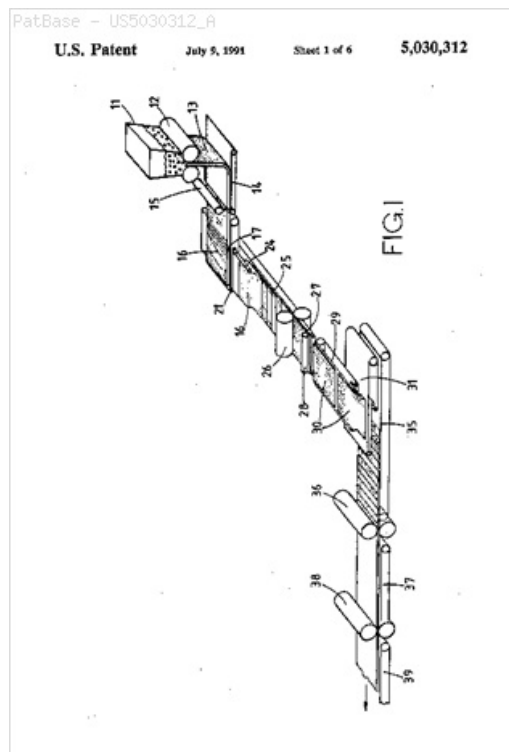
International (IPC 8-9): H01M4/04 (Advanced/Invention);
H01M4/04 (Core/Invention)

International (IPC 1-7): B32B31/18 H01M4/04

CPC: H01M4/0402 H01M4/04 H01M4/0435 Y10T156/1075 Y10T156/1079
Y10T156/13 Y10T156/1317 Y10T156/1322 Y10T156/1744

European: H01M4/04 H01M4/04B H01M4/04C4 Y02E60/12

US: 156/243 156/244.18 156/264 156/266 156/500 156/512 156/516
156/517 156/556



Family:

Publication number	Publication date	Application number	Application date
DE68905034 D1	19930401	DE19896005034	19891128
DE68905034 T2	19930701	DE19896005034T	19891128
EP0372797 A2	19900613	EP19890312348	19891128
EP0372797 A3	19910724	EP19890312348	19891128
EP0372797 B1	19930224	EP19890312348	19891128
GB8828519 A0	19890111	GB19880028519	19881207
US5030312 A	19910709	US19890443919	19891130

Priority:

GB19880028519 19881207

Probable Assignee: LUCAS IND PLC

Assignee(s): (std): LUCAS IND PLC ; LUCAS IND PLC OF GREAT KING ST

Assignee(s): LUCAS IND PLC OF GREAT KING STREET ; LUCAS IND PUBLIC CO LTD ; LUCAS INDUSTRIES PUBLIC LIMITED COMPANY ; LUCAS INDUSTRIES PLC OF GREAT KING STREET ; LUCAS INDUSTRIES PLC ; LUCAS INDUSTRIES P L C ; LUCAS INDUSTRIES P L C BIRMINGHAM WEST MIDLANDS GB ; LUCAS IND

Inventor(s): (std): COOK JOHN EDMUND ; WILLIAMS ALAN ; COOK JOHN E

Inventor(s): WILLIAMS ALAN SOLIHULL WEST MIDLANDS GB ; COOK JOHN EDMUND SOLIHULL WEST MIDLANDS B91 3LS GB

Designated states: DE FR GB IT SE

17) Family number: 57425239 (US2014277698A)

© PatBase

Title: ZONE CONTROLLER FOR MODULAR CONVEYOR SYSTEM

Abstract: Method and apparatus for controlling a conveyor system including a conveyor zone having a plurality of conveyor regions. A zone controller is configured to track the position of one or more articles within a controlled zone. The zone controller

may be operatively coupled to controllers of adjacent zones, and may receive and transmit data relating to the position of articles in the controlled zone and whether the zone is accepting articles from the other controllers. Articles are moved within the controlled zone by selectively activating the zone based on determined positions of articles within the controlled zone, the positions of articles within adjacent zones, and/or the operating mode of the zone. The zone controller may thereby operate cooperatively with adjacent zones to manage spacing between articles by selectively positioning multiple articles within the zone, and may accumulate or discharge articles from the conveyor system in a desired arrangement.

Classifications:

International (IPC 8-9): B65G43/08 B65G43/10 G05B19/418

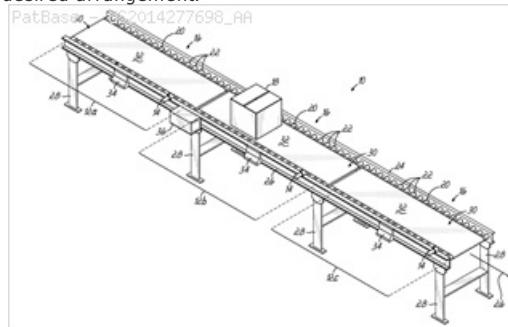
G06F7/00 (Advanced/Invention)

CPC: B65G43/10 G05B2219/31078 Y02P90/083 Y02P90/28 Y02P90/08 G05B19/4189

US: 198/460.1 700/230

JP F-Term: 3F027 3F027/AA02 3F027/DA01 3F027/DA08 3F027/DA12 3F027/DA14 3F027/EA01 3F027/FA01 3F027/FA03 3F027/FA04 3F027/FA12

JP F-Index: B65G43/08/B B65G43/08/C B65G43/08/D



Family:

Publication number	Publication date	Application number	Application date
EP2969863 A1	20160120	EP20140772891	20140207
EP2969863 A4	20161214	EP20140772891	20140207
JP2016512189 T2	20160425	JP20160500217T	20140207
JP6352379 B2	20180704	JP20160500217T	20140207
US2014277698 AA	20140918	US20130803233	20130314
US8983651 BB	20150317	US20130803233	20130314
WO14158368 A1	20141002	WO2014US15309	20140207

Priority:

US20130803233 20130314 WO2014US15309 20140207

Probable Assignee: INSIGHT AUTOMATION INC

Assignee(s): (std): INSIGHT AUTOMATION INC

Inventor(s): (std): SOTIROV IVAYLO N ; PETROV DIMITAR IVANOV ; PETROV DIMITAR ; MIYAZAKI TOSHIHIRO ; KNAPE JAMES P ; ICHIEDA KAZUYA ; COMBS CHARLES R

Agent(s): FINDLAY ALICE ROSEMARY; WOOD HERRON AND EVANS LLP; GAINES W SCOTT 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

18) Family number: 31770247 (US2005061237A)

© PatBase

Title: SLURRY FEED APPARATUS FOR FIBER-REINFORCED STRUCTURAL CEMENTITIOUS PANEL PRODUCTION

Abstract: A feed apparatus for use in depositing a slurry upon a moving web having a direction of travel includes a main metering roll, a companion roll disposed in closely spaced relation to the metering roll to form a nip therebetween. The nip is constructed and arranged to retain a supply of the slurry, and the rolls are driven so that slurry retained in the nip progresses over an upper outer peripheral surface of the metering roll to be deposited upon the web. Also preferably included is a thickness control roll disposed in operational relationship to the metering roll for controlling thickness of a layer of slurry drawn from the nip over the outer metering roll surface. Preferably, the metering roll, the companion roll and the thickness control roll are driven in the same direction.

Classifications:

International (IPC 8-9): B05C B05C1/08 B28B B28B1/52 B28B13/02

B28B5/02 (Advanced/Invention);

B05C1/08 (Advanced/Non-invention);

B05C1/08 B28B1/52 B28B13/00 B28B5/00 (Core/Invention);

B05C1/08 (Core/Non-invention);

B28B (Subclass/Invention)

International (IPC 1-7): B05C1/06 B05C1/08 B28B 1/52 B28B1/00

B28B1/52 B28B13/02 B28B5/02 B32B13/00

CPC: B05C1/0834 B05C1/0865 B28B1/522 B28B5/027 B28B13/02

European: B05C1/08Y2 B28B1/52C B28B13/02 B28B5/02C2

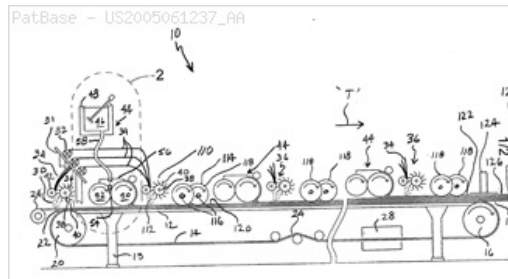
L05C1/08P2 L05C1/08Y50B

US: 118/259 118/259S 118/262 118/304 156/346 156/346S

JP F-Term: 4G052 4G052/GA02 4G052/GA04 4G052/GA12 4G052/GB53

4G052/GB65 4G055 4G055/AA02 4G055/AB05 4G055/AC01 4G055/FA00

JP F-Index: B28B1/52 B28B13/02



Family:

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WO05032783 A1	20050414	WO2004US28609	20040902

Priority:

US20030664460 20030918 EP20040782995 20040902 WO2004US28609 20040902

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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

19) Family number: 44312276 (US2010030373A)

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Title: INTELLIGENT PRODUCT FEED SYSTEM AND METHOD

Abstract: Intelligent product feed systems and product transport methods are presented in which an array of variable speed transport modules is positioned between an input transport mechanism and an output mechanism, with the individual module speeds being controlled by a model-based planner to transport products delivered in an uncertain fashion by the input transport mechanism to the output mechanism synchronized and oriented according to a specified product configuration.

Classifications:

International (IPC 8-9): B65B35/44 B65B35/58 B65G43/00 B65G43/08 B65G43/10 B65G47/24 B65G47/29 B65G47/31 B65G47/68 G05B19/418 G06F7/00 (Advanced/Invention);

B65B35/44 B65B35/58 B65G47/29 B65G47/68 (Advanced/Non-invention); B65B35/00 B65B35/44 B65G43/00 B65G43/08 B65G47/24 B65G47/28 B65G47/68 G05B19/418 G06F7/00 (Core/Invention)

CPC: B65G47/31 B65B35/44 B65G43/10

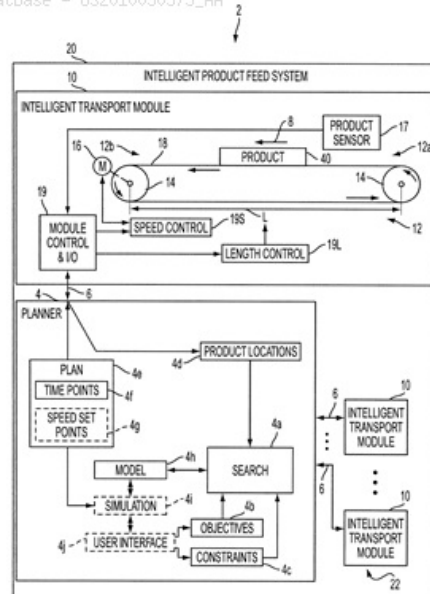
European: B65B35/44 B65G43/10 B65G47/31

US: 198/395 198/395S 198/411 198/460.1 198/460.2 198/461.2 700/223 700/223P 700/226 700/230

JP F-Term: 3C100 3C100/AA47 3C100/BB21 3E054 3E054/AA12 3E054/CA08 3E054/DD01 3E054/FA07 3E054/FC03 3E054/FC08 3E054/FC14 3E054/GA01 3E054/GB07 3E054/GC04 3E054/GC07 3F027 3F027/AA02 3F027/CA02 3F027/DA01 3F027/DA02 3F027/DA12 3F027/DA15 3F027/DA16 3F027/FA03 3F027/FA12 3F027/FA13 3F027/FA15 3F070 3F070/AA12 3F070/AA28 3F070/BA01 3F070/BA03 3F070/BE01 3F070/BE05 3F070/BE08 3F070/BG04 3F070/BG10 3F070/DA09 3F070/EA24 3F070/EC08 3F070/FD03 3F070/FD06 3F070/FE02 3F081 3F081/AA10 3F081/AA47 3F081/BC03 3F081/BC04 3F081/BD07 3F081/BD11 3F081/BD16 3F081/BD17 3F081/BD20 3F081/BD24 3F081/BF06 3F081/BF13 3F081/CC08 3F081/EA05 3F081/EA10 3F081/EA11 3F081/EA14 3F081/FA02 3F081/FB02

JP F-Index: B65B35/44 B65B35/58 B65G43/00/D B65G43/00/K B65G43/08/A B65G47/29/D B65G47/29/G B65G47/29/L B65G47/68/E G05B19/418/Z

PatBase - US2010030373_AA



Family:

Publication number	Publication date	Application number	Application date
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US8612050 BB	20131217	US20080181693	20080729

Priority:

US20080181693 20080729 EP20090166069 20090722

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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

20) Family number: 43766294 (US2009245616A)

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Title: METHOD AND APPARATUS FOR VISIOMETRIC IN-LINE PRODUCT INSPECTION

Abstract: A method and an apparatus for grouping individual products such as industrially baked products that travel past a visiometry station into lots for counting them. In a viewing zone of a conveyor belt, a laser triangulation visiometry system is used. The method and apparatus also uses a signal processor associated with the camera that deduces from the images acquired thereby at least one piece of information on the location of the products on the conveyor belt as well as height information thereon. This information is then used by the signal processor to automatically distinguish between the presence of a product and the presence of contaminating material (for example flour or chocolate particles) on the conveyor belt and to distinguish the presence of several partially or fully overlapping products from the presence of a single product on said conveyor belt. Preferably, two cameras are disposed symmetrically relative to a laser plane substantially perpendicular to the plane of the viewing zone.

Classifications:

International (IPC 8-9): A21C15/00 A21C9/08 A62B35/00 A62B37/00 B07C5/00 B07C5/10 B64D1/22 B66C1/34 B66C1/38 F16B45/02 G01B11/02 G01B11/24 G06K9/00 G06M7/00 G06T7/00 H04N13/02 (Advanced/Invention);

G01N21/892 (Advanced/Non-invention);

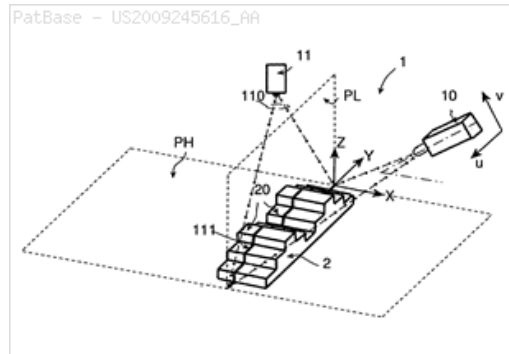
A21C15/00 A21C9/00 A62B35/00 B07C5/04 B64D1/00 B66C1/22 F16B45/00 G01B11/02 G01B11/24 G06K9/00 G06M7/00 G06T7/00 H04N13/02 (Core/Invention);

G01N21/88 (Core/Non-invention)

CPC: F16B45/02 G01B11/0608 A21C9/08 A62B35/0081 G06T7/0004 G06T2207/30128

European: A21C9/08 A62B35/00D F16B45/02 G01B11/06B G06T7/00B1 S06T207/30128

US: 209/579 209/586 294/82.33 294/82.330P 294/82.34 356/602 356/606 382/141 382/141P



Family:

Publication number	Publication date	Application number	Application date
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US8035052 BB	20111011	US20090382933	20090326
US8226138 BB	20120724	US20090934130	20090326
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Priority:

FR20080001636 20080326 FR20080001638 20080326 EP20090734604 20090326

WO2009FR00335 20090326

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 BALLINA FRERES SA DE

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Agent(s): EQUINOX; CABINET HECKE; THIBON NORBERT; HECKE GERARD; AZNAREZ PABLO; CABINET THIBON
 LITTAYE; OLIFF AND BERRIDGE PLC; HECKE GERARD ET AL

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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM
 TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW