

20 Documents

Publication numbers	Title	Current assignees
WO200528188 A1	Process for producing packaging film with weld-cut sealing/thermal shrinkage capability constituted of polyethylene terephthalate block copolymer polyester	NAKAMOTO PACKS
WO200145934 A1	Multilayer film structures having improved seal and tear properties	BEMIS
CA2039158 A1	Biaxially oriented polyethylene film	KOHJIN
CA2845410 A1	Bioriented polyethylene film	DOW GLOBAL TECHNOLOGIES
WO9722470 A1	Biaxially oriented polyethylene films	EXXON CHEMICAL, ...
WO9506561 A1	Multilayer film having self-limiting heat seal	DUPONT TEIJIN FILMS
WO200038843 A1	Biaxially oriented polyethylene film with improved optics and sealability properties	EXXONMOBIL OIL
CN103407257 A	High-barrier-property BOPET (biaxially-oriented polyethylene terephthalate) packaging film and production method thereof	SHANTOU KEYI PLASTIC
WO200874492 A1	Film	BOREALIS TECHNOLOGY
WO200445848 A1	Thermal bondable film for insulation facing, and method for making the same	DUPONT TEIJIN FILMS
EP-131989 A2	Tubular object of a layered plastics material and a method for the manufacture thereof	AKZO
WO2006107048 A1	Packaging bag for microwave oven	DAI NIPPON PRINTING
US4236652 A	Dispenser package	AMERICAN CAN
WO200066654 A1	Decorated polyester tube package for aqueous compositions	COLGATE PALMOLIVE
JP2001253028 A	Multilayered film and package	MITSUBISHI PLASTICS INDUSTRIES
WO9813415 A1	Biaxially-oriented pet foil for use for smd foil capacitors, method for the production of said foil and its use as foil capacitors in smd technology	MITSUBISHI POLYESTER FILM
IN2009MU00964 A	A polymer film and process thereof	Shah Nimisha Paresh (I), ...
CA2848555 A1	Use of an adhesive tape system for forming a tear-off strip on a cardboard box	TESA
JP2004345121 A	Laminate excellent in manual cutting properties	UNITIKA
WO200465241 A1	Easily openable container lid with resealability and method of producing the same	TOYO SEIKAN KAISHA

Family 1/20 - FAMPAT - ©Questel

Title

(WO200528188)

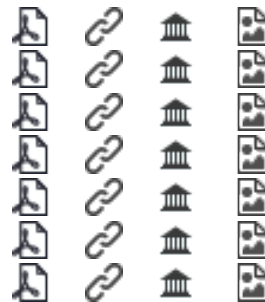
Process for producing packaging film with weld-cut sealing/thermal shrinkage capability constituted of polyethylene terephthalate block copolymer polyester

Images

溶断シール可能であり熱収縮可能な本発明のPET系ポリエステル包装用フィルムは、PET／PETG／ポリエステルエラストマーをエポキシ樹脂および触媒によりブロック共重合させた素材を、二軸延伸させて得られたフィルムである。本フィルムにおいては、従来のPETフィルムにおける物性上の最大弱点が改良されている。本フィルムは、書籍、集合ボトル、食品容器等の包装、一般包装、産業資材包装等用に、日用品、土木建築、電子電機、自動車車両部材梱包・包装等の分野において有用である。また、本フィルムは、大量に発生する回収PETボトルや安価な繊維用PETをプレポリマーとして大量かつ有効に利用して製造され得るので、社会的にも極めて有益である。更に、本フィルムは、その使用後に焼却処理したとしても、ポリエチレンやポリプロピレンと比較して燃焼発熱量が低く、このため焼却炉等を損傷することも少なく、有毒ガスの発生ももたらさない。

Publication data including kind & date

WO2005028188	A1	2005-03-31	WO200528188
TW200516102	A	2005-05-16	TW200516102
WO2005028188	B1	2005-06-16	WO200528188
US20070052131	A1	2007-03-08	US20070052131
TWI276653	B	2007-03-21	TWI276653
JPWO2005028188	A1	2007-11-15	JP2005028188W
JP4491553	B2	2010-06-30	JP4491553

**Abstract**

(WO200528188)

A PET polyester packaging film capable of weld-cut sealing and capable of thermal shrinkage obtained by biaxially orienting a material resulting from block copolymerization of a PET/PETG/polyester elastomer conducted in the presence of an epoxy resin and a catalyst. This film has achieved improvement with respect to the most serious weak point in properties of conventional PET films. This film is useful for packaging of books, bottle sets, food containers and the like, general packaging, packaging of industrial materials, etc., and further useful in the field of, for example, packing and packaging of daily commodity, civil engineering and construction items, electrical electronic articles and automobile vehicle members. Moreover, this film can be produced by the use of massively occurring recovered PET bottles and cheap PET for fiber as a prepolymer effectively in immense quantities, and hence is also socially highly beneficial. Still further, even if incinerated after use, this film exhibits a combustion heat value lower than that of polyethylene or polypropylene, so that damaging of incinerator, etc. can be relieved and emission of hazardous gas can be avoided.

Inventors

FUJIMAKI TAKASHI
KOBAYASHI YUKIO
NAKAMOTO TAKASHI
SHIBANO HIROSHI

Latest standardized assignees - inventors removed

NAKAMOTO PACKS

Publication dates

2005-03-31

2005-05-16

2005-06-16

2007-03-08

2007-03-21

2007-11-15

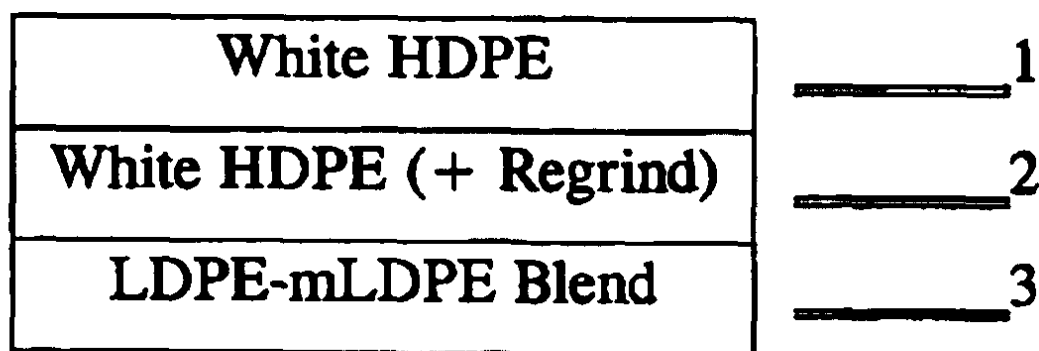
2010-06-30

Family 2/20 - FAMPAT - ©Questel

Title

(EP1265747)

Multilayer film structures having improved seal and tear properties

Images

Three Layer Film Structure

Publication data including kind & date

WO200145934	A1	2001-06-28	WO200145934
CA2394771	A1	2001-06-28	CA2394771
AU2255101	A	2001-07-03	AU200122551
US20020086174	A1	2002-07-04	US20020086174
EP1265747	A1	2002-12-18	EP1265747
EP1265747	A4	2003-04-16	EP1265747
US6846551	B2	2005-01-25	US6846551
AU780895	B2	2005-04-21	AU-780895
AT355169	T	2006-03-15	ATE355169
EP1265747	B1	2007-02-28	EP1265747
DE60033698	D1	2007-04-12	DE60033698

**Abstract**

(EP1265747)

A multilayer film structure having at least two layers wherein the first layer comprises poly(ethylene) having a density range from about 0.93 g/cc to 0.97 g/cc; and a second layer comprising poly(ethylene) having a density range from 0.89 g/cc to 0.93 g/cc wherein the second layer is capable of forming a heat seal. The multilayer film structure is capable of being laminated to another film structure or a packaging film component. The packages of the present invention are useful for the

packaging of flowable materials. A package produced as shown in the figure may be grasped with two hands one hand tears the corner of the package in a downward/horizontal motion to create a small opening through which product is dispensed. Any corner of the package can be torn away.

Inventors

GENSKE ROGER P

GEHRKE RUSS P

DUFFY ERIN M

Latest standardized assignees - inventors removed

BEMIS

Publication dates

2001-06-28

2001-06-28

2001-07-03

2002-07-04

2002-12-18

2003-04-16

2005-01-25

2005-04-21

2006-03-15

2007-02-28

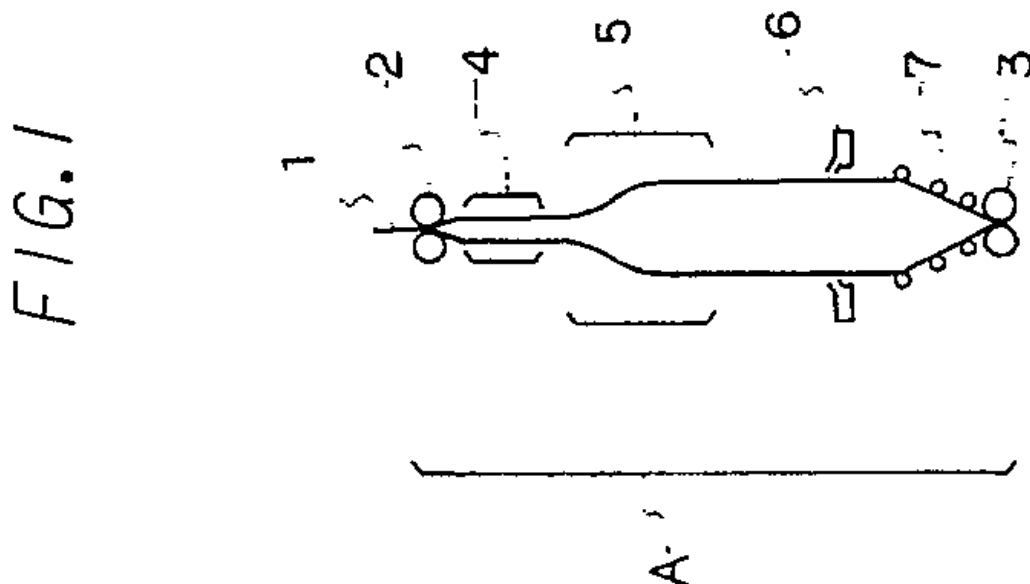
2007-04-12

Family 3/20 - FAMPAT - ©Questel

Title

(EP-450088)

Biaxially oriented polyethylene film

Images**Publication data including kind & date**

CA2039158	A1	1991-04-10	CA2039158
WO9105004	A1	1991-04-18	WO9105004
AU6514390	A	1991-04-28	AU9065143
JPH03205430	A	1991-09-06	JP03205430



JP03215034	A	1991-09-20	JP03215034				
JP03220250	A	1991-09-27	JP03220250				
EP0450088	A1	1991-10-09	EP-450088				
EP0450088	A4	1992-05-06	EP-450088				
KR19927001339	A	1992-08-11	KR19927001339				
AU640419	B2	1993-08-26	AU-640419				
EP0450088	B1	1996-05-08	EP-450088				
DK0450088	T3	1996-05-28	DK-450088T				
DE69026929	D1	1996-06-13	DE69026929				
DE69026929	T2	1996-09-26	DE69026929				
KR100186871	B1	1999-05-15	KR100186871				
KR100186871	B1	1999-05-15	KR100186871				
JP2904904	B2	1999-06-14	JP2904904				
JP2904903	B2	1999-06-14	JP2904903				
JP2927928	B2	1999-07-28	JP2927928				
CA2039158	C	2000-02-22	CA2039158				

Abstract

(EP-450088)

A biaxially oriented film mainly composed of a linear low-density polyethylene having a temp. difference between Tmb and Tma of at least 3 deg.C, wherein Tma is a main peak temp. of a melting curve obtd. in the m.pt. measurement with a differential scanning calorimeter by holding a sample at 190 deg.C for 30 mins., lowering the temp. to 20 deg.C at a rate of 100 deg.C/min., and elevating the temp. at a rate of 10 deg.C/min., the Tma being 118 +/- 5 deg.C, and Tmb is a main peak temp. of another melting curve obtd. similarly by holding a sample at 190 deg.C for 30 mins., lowering the temp. to 20 deg.C at a rate of 10 deg.C/min., and elevating the temp. at a rate of 10 deg.C. Since this resin is excellent in stretching stability, it can be stretched with a low tensile strength stably, thereby giving an oriented film excellent in not only stretchability and shrinkage but also elastic recovery. @ (37pp Dwg.No.1/1)@.

Inventors

ISOZAKI HIDEO

HIRATA MAKOTO

TAKAHASHI MASUMI

Latest standardized assignees - inventors removed

KOHJIN

Publication dates

1991-04-10

1991-04-18

1991-04-28

1991-09-06

1991-09-20

1991-09-27

1991-10-09

1992-05-06

1992-08-11

1993-08-26

1996-05-08

1996-05-28

1996-06-13

1996-09-26

1999-05-15

1999-05-15

1999-06-14

1999-06-14

1999-07-28

2000-02-22

Family 4/20 - FAMPAT - ©Questel

Title

(EP2750863)

Bioriented polyethylene film

Images

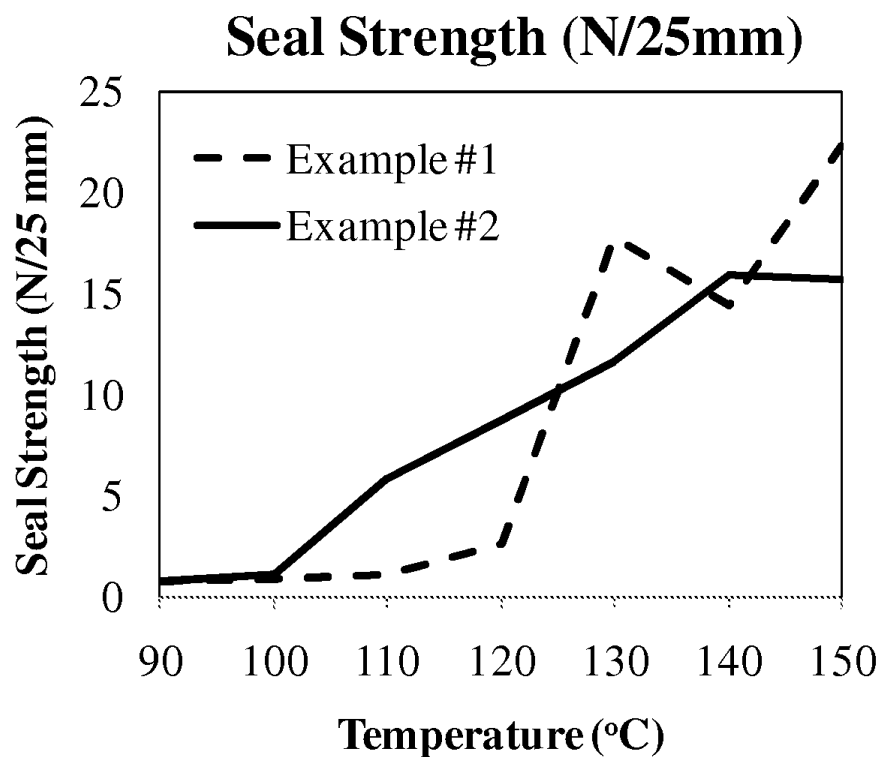


Figure 1

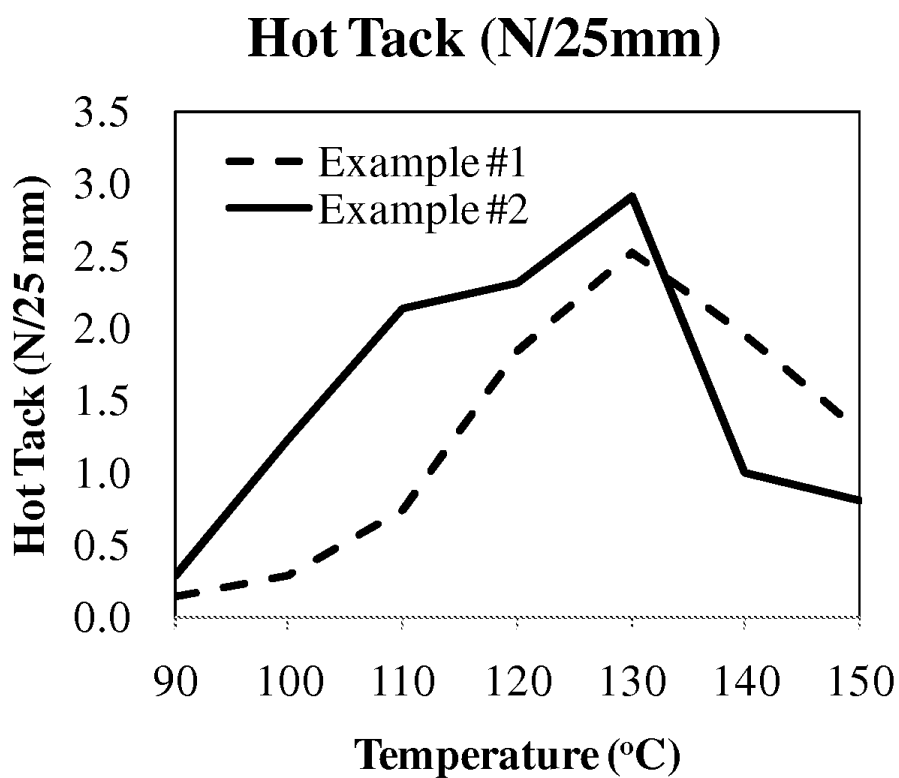


Figure 2

	A1	2013-03-07	CA2845410				
WO2013029223	A1	2013-03-07	WO201329223				
MX2014002227	A	2014-04-30	MX2014002227				
CN103764372	A	2014-04-30	CN103764372				
BR112014000863	A1	2014-05-13	BR112014000863				
EP2750863	A1	2014-07-09	EP2750863				
US20140205823	A1	2014-07-24	US20140205823				
JP2014528984	A	2014-10-30	JP2014528984				
EP2750863	A4	2015-03-25	EP2750863				
JP5801965	B2	2015-10-28	JP5801965				
EP2750863	B1	2016-06-29	EP2750863				
ES2587441	T3	2016-10-24	ES2587441				
CN103764372	B	2016-10-26	CN103764372B				
BR112014000863	A2	2017-04-18	BR112014000863				
MY165454	A	2018-03-22	MY-165454				

Abstract

(EP2750863)

The present invention discloses a process for forming a biaxially oriented film. The process includes first selecting a polyolefin resin wherein said polyolefin resin comprises a linear low density polyethylene resin characterized by having from 9 to 35 weight percent of the total weight of linear low density polyethylene resin eluting from a CEF at a temperature greater than 97.

Inventors

YUN BINGXIAO

CONG RONGJUAN

PAN JEPHREY

KARJALA P TERESA

Latest standardized assignees - inventors removed

DOW GLOBAL TECHNOLOGIES

Publication dates

2013-03-07

2013-03-07

2014-04-30

2014-04-30

2014-05-13

2014-07-09

2014-07-24

2014-10-30

2015-03-25

2015-10-28

2016-06-29

2016-10-24

2016-10-26

2017-04-18

2018-03-22

Family 5/20 - FAMPAT - ©Questel

Title

(EP-876250)

Biaxially oriented polyethylene films

Images

$$(j): \phi_i(x_j) = x_j + h_{ij}(x_{j+1}, \dots, x_n) = y_j;$$

Publication data including kind & date

WO9722470	A1	1997-06-26	WO9722470
CA2239549	A1	1997-06-26	CA2239549
AU1336997	A	1997-07-14	AU9713369
NO982786	D0	1998-06-17	NO9802786
NO982786	A	1998-08-14	NO9802786
EP0876250	A1	1998-11-11	EP-876250
PL327143	A1	1998-11-23	PL96327143
IL124590	A	1998-12-06	IL-124590
NZ326083	A	1999-01-28	NZ-326083
BR9612068	A	1999-12-28	BR9612068
BRPI9612068	A1	1999-12-28	BRPI9612068
EP0876250	A4	2000-05-03	EP-876250
HU0001641	A2	2000-09-28	HU200001641
KR20000064446	A	2000-11-06	KR20000064446
JP2002515923	A	2002-05-28	JP2002515923



Abstract

(EP-876250)

Articles and films are provided from ethylene-based polymers made using a metallocene catalyst system. Biaxial orientation dramatically improves clarity, stiffness, dart drop impact, puncture resistance, and shrink. Tensile strength at yield and ultimate tensile are also improved. Film stiffness, as measured by secant modulus, is increased by 300 % over an unoriented film of the same ethylene polymer. These articles and films are useful as shrink wrap, overwrap, and for dry packaging applications such as snacks and cereals as well as non-packaging applications such as photograph and document holders.

Inventors

BRANT PATRICK

BRACKEEN JAMES H

TRUDELL BARRY COLLIN

RIRIE JAMES I

BATES MONTY K

FISCHER DAVID C

Latest standardized assignees - inventors removed

EXXON CHEMICAL

EMPIRE FILMS DEVELOPMENT

Publication dates

1997-06-26

1997-06-26

1997-07-14

1998-06-17

1998-08-14

1998-11-11

1998-11-23

1998-12-06

1999-01-28

1999-12-28
 1999-12-28
 2000-05-03
 2000-09-28
 2000-11-06
 2002-05-28

Family 6/20 - FAMPAT - ©Questel

Title

(EP-716630)

Multilayer film having self-limiting heat seal

Publication data including kind & date

WO9506561	A1	1995-03-09	WO9506561			
CA2167381	A1	1995-03-09	CA2167381			
US5478645	A	1995-12-26	US5478645			
EP0716630	A1	1996-06-19	EP-716630			
KR19967004703	A	1996-10-09	KR19967004703			
JPH09501893	A	1997-02-25	JP09501893			
EP0716630	B1	1997-11-05	EP-716630			
DE69406669	D1	1997-12-11	DE69406669			
DE69406669	T2	1998-03-05	DE69406669			
KR100235423	B1	1999-12-15	KR100235423			

Abstract

(EP-716630)

The present invention relates generally to a multilayer packaging structure which: (1) has a relatively broad heat seal temperature, and (2) provides an easy open seal, even at very high heat seal temperatures. More specifically, the films of the present invention are preferably multilayer structures comprising: (1) a support film, such as polyester; (2) a homopolymer or copolymer interface layer; and (3) a heat seal outer layer.

Inventors

CHANG CLIFFORD CHENG-SHIOU

Latest standardized assignees - inventors removed

DUPONT TEIJIN FILMS

Publication dates

1995-03-09
 1995-03-09
 1995-12-26
 1996-06-19
 1996-10-09
 1997-02-25
 1997-11-05
 1997-12-11
 1998-03-05
 1999-12-15

Family 7/20 - FAMPAT - ©Questel

Title

(EP1156887)

Biaxially oriented polyethylene film with improved optics and sealability properties

Publication data including kind & date



WO200038843	A1	2000-07-06	WO200038843			
CA2353447	A1	2000-07-06	CA2353447			
AU1716400	A	2000-07-31	AU200017164			
US6168826	A	2001-01-02	US6168826			
US6168826	B1	2001-01-02	US6168826			
BR9916809	A	2001-11-06	BR9916809			
BRPI9916809	A1	2001-11-06	BRPI9916809			
EP1156887	A1	2001-11-28	EP1156887			
JP2002533237	A	2002-10-08	JP2002533237			
AU763874	B2	2003-07-31	AU-763874			
BRPI9916809	A2	2011-12-13	BR9916809			

Abstract

(EP1156887)

Methods of preparing biaxially oriented polyethylene films with improved optics and sealability properties are provided. The methods include stretching in the machine direction a multi-layer base sheet having a core layer with a first and a second side, at least one skin layer and outer surfaces; then coating at least one of the outer surfaces with a resin selected from the group consisting of low density polyethylene, very low density polyethylene, linear low density polyethylene and blends thereof; and finally, stretching the base sheet in a direction transverse to the machine direction.

Inventors

SU TIEN-KUEI

POIRIER ROBERT V

Latest standardized assignees - inventors removed

EXXONMOBIL OIL

Publication dates

2000-07-06

2000-07-06

2000-07-31

2001-01-02

2001-01-02

2001-11-06

2001-11-06

2001-11-28

2002-10-08

2003-07-31

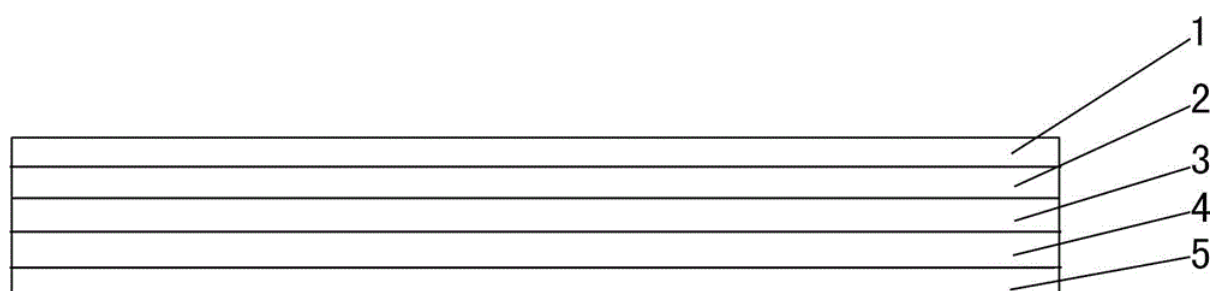
2011-12-13

Family 8/20 - FAMPAT - ©Questel

Title

(CN103407257)

High-barrier-property BOPET (biaxially-oriented polyethylene terephthalate) packaging film and production method thereof

Images

Publication data including kind & date

CN103407257	A	2013-11-27	CN103407257
CN103407257	B	2016-08-10	CN103407257B

**Abstract**

(CN103407257B)

The high-barrier-property BOPET packaging film is characterized by comprising two PET polyester layers, two PETN (pentaerythritol tetranitrate) polyester layers and an MMT (methylcyclopentadienyl manganese tricarbonyl) modified PET polyester sandwich layer. The high-barrier-property BOPET packaging film is sequentially composed of a PET polyester layer, a PETN polyester layer, an MMT modified PET polyester sandwich layer, a PETN polyester layer and a PET polyester layer from top to bottom. The production method of the high-barrier-property BOPET packaging film is characterized by comprising the following steps: respectively drying PET slices, PETN slices and an MMT modified PET slice by an blast dryer, and extruding through a five-layer coextrusion die head respectively by using three corresponding double screw extruders; carrying out piece casting, longitudinal stretching, lateral stretching, traction rolling and cutting to obtain the high-barrier-property BOPET packaging film. Compared with the prior art, the invention can greatly enhance the barrier property of the packaging film, has the advantages of excellent heat sealability, excellent mechanical properties, high safety, no toxic or harm and low cost, can easily implement industrial production, and can be widely used in the field of packaging of oxygen/water-sensitive foods and drugs.

Inventors

XIE QINGJIAN

Latest standardized assignees - inventors removed

SHANTOU KEYI PLASTIC

Publication dates

2013-11-27

2016-08-10

Family 9/20 - FAMPAT - ©Questel

Title

(EP2121317)

Film

Images

Elvaoy®

Publication data including kind & date

WO2008074492	A1	2008-06-26	WO200874492
EP1941999	A1	2008-07-09	EP1941999
CN101563225	A	2009-10-21	CN101563225
EP2121317	A1	2009-11-25	EP2121317
EA200900660	A1	2009-12-30	EA200900660
US20100009156	A1	2010-01-14	US20100009156
EP1941999	B1	2010-04-14	EP1941999
AT464181	T	2010-04-15	ATE464181
IN3564/DELNP/2009	A	2010-04-16	IN2009DN03564
DE602006013673	D1	2010-05-27	DE602006013673
ES2340868	T3	2010-06-10	ES2340868
EA015472	B1	2011-08-30	EA--15472
CN101563225	B	2013-04-24	CN101563225B
EP1941999	B2	2014-02-26	EP1941999



[ES2340868](#)

T5 2014-03-24 ES2340868

[IN276507](#)

B 2016-10-28 IN-276507

Abstract

(EP2121317)

The invention provides a uniaxially oriented multilayer film comprising at least: (i) an outer layer (B) and (ii) an inner layer (C), wherein said layer (B) (i) comprises a multimodal linear low density polyethylene (LLDPE), said layer (C) (ii) comprises at least one polymer component which has a $T_m < 100$ °C, and said multilayer film is in the form of a stretched film which is uniaxially oriented in the machine direction (MD) in a draw ratio of at least 1 :3.

Inventors

DAVIKNES HANS GEORG

MYHRE OLE JAN

Latest standardized assignees - inventors removed

BOREALIS TECHNOLOGY

Publication dates

2008-06-26

2008-07-09

2009-10-21

2009-11-25

2009-12-30

2010-01-14

2010-04-14

2010-04-15

2010-04-16

2010-05-27

2010-06-10

2011-08-30

2013-04-24

2014-02-26

2014-03-24

2016-10-28

Family 10/20 - FAMPAT - ©Questel

Title

(EP1565312)

Thermal bondable film for insulation facing, and method for making the same

Images

Abstract

(EP1565312)

A vapor barrier assembly for use in thermal insulation products for buildings. The assembly has one or more vapor barrier layers with a thermally softening bonding layer on top, which bonds the vapor barrier to a fibrous reinforcing layer. A thermal insulation product with good vapor barrier properties can be made from the vapor barrier assembly by attaching it to an insulation batt, using an adhesive.

Inventors

COSENTINO STEVEN R

Latest standardized assignees - inventors removed

DUPONT TEIJIN FILMS

Publication dates

2004-06-03

2004-06-15

2004-08-01

2004-08-05

2004-09-30

2005-08-24

2007-01-02

2007-03-27

2008-03-05

2011-12-21

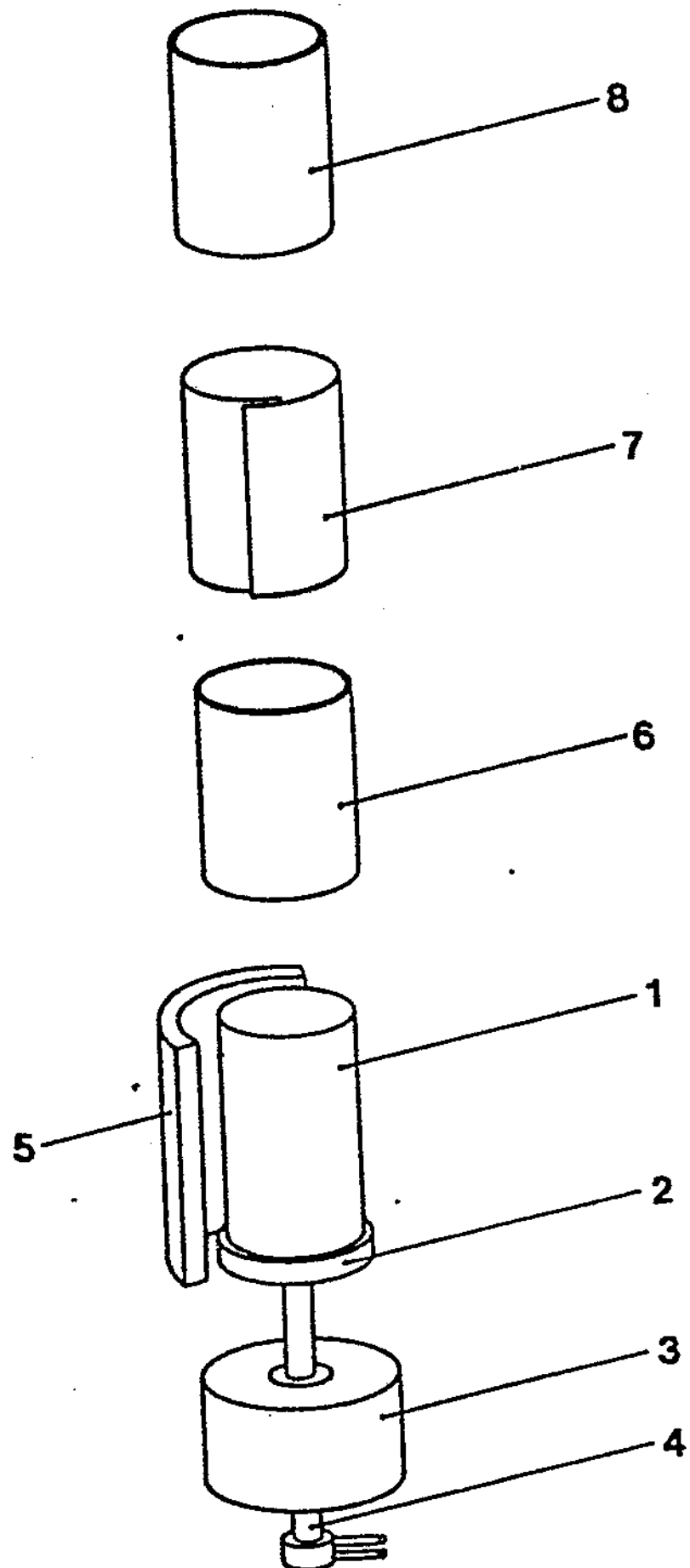
Family 11/20 - FAMPAT - ©Questel

Title

(EP-131989)

Tubular object of a layered plastics material and a method for the manufacture thereof

Images



Publication data including kind & date

EP0131989	A2	1985-01-23	EP-131989
AU3073984	A	1985-01-24	AU8430739
EP0131989	A3	1985-03-13	EP-131989
ZA8405523	B	1985-03-27	ZA8405523
JPS6089345	A	1985-05-20	JP60089345
US4604307	A	1986-08-05	US4604307
EP0131989	B1	1987-02-25	EP-131989
AT25505	T	1987-03-15	ATE025505
DE3462395	D1	1987-04-02	DE3462395
AU562724	B2	1987-06-18	AU-562724
CA1234467	A	1988-03-29	CA1234467

**Abstract**

(EP-131989)

Multilayer tubular container as a means of transport and storage for chemicals, beverages, food, etc. It is provided with a tubular casing of a particular inner cross-section, the casing being composed of a first layer of a both axially and radially oriented polyethylene terephthalate and having a thickness of 50-1000 μm , and of a second layer which has been shrunk onto said first layer. The polyethylene terephthalate of the first layer is heat-set into the shape of said cross-section to a degree of crystallisation of at least 25%. A film-like intermediate layer is compressed between the first and the second layers, e.g., to improve the gas barrier properties. The second layer is composed of a both axially and radially oriented polyethylene terephthalate having a thickness of 75-1000 μm , and is heat-set to a degree of crystallisation of at least 25% on the form of the intermediate layer. This container is dimensionally stable at high temperatures, particularly sterilisation temperatures.

Inventors

SPREEUWERS, HARM ROELF

Latest standardized assignees - inventors removed

AKZO

Publication dates

1985-01-23

1985-01-24

1985-03-13

1985-03-27

1985-05-20

1986-08-05

1987-02-25

1987-03-15

1987-04-02

1987-06-18

1988-03-29

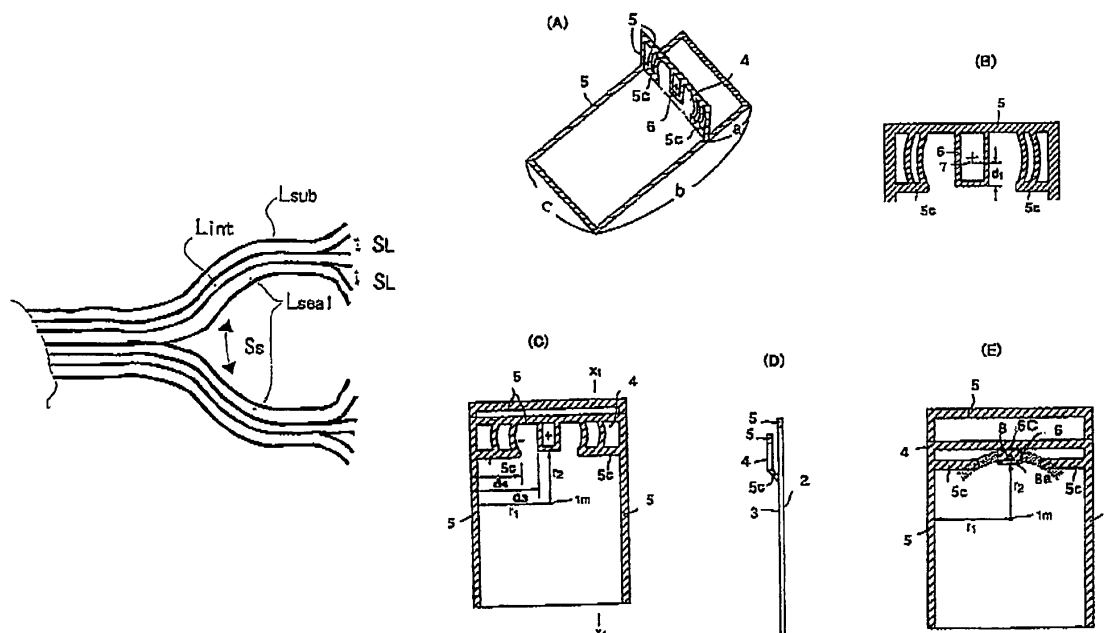
Family 12/20 - FAMPAT - ©Questel

Title

(EP1870350)

Packaging bag for microwave oven

Images



Publication data including kind & date

WO2006107048	A1	2006-10-12	WO2006107048
KR20070118288	A	2007-12-14	KR20070118288
EP1870350	A1	2007-12-26	EP1870350
JPWO2006107048	A1	2008-09-25	JP2006107048W
US20090035424	A1	2009-02-05	US20090035424
EP1870350	A4	2010-10-20	EP1870350
EP1870350	B1	2013-04-03	EP1870350
US8434637	B2	2013-05-07	US8434637
KR101339491	B1	2013-12-10	KR101339491



Abstract

(EP1870350)

A packaging bag for microwave oven heating, which is manufactured by using a complex film at least one side of which comprises a sealant layer, folding the complex film or placing the complex films one upon another so as to encounter the sealant layers to each other, sealing the peripheral of the overlapped complex films by a main seal part to form a sealed bag, and providing in the bag a region which is isolated from a space for storing contents by a steam port seal part, wherein the steamport seal part is formed consecutively from the main seal part or is formed as a part independent of the main seal part, and wherein the steam port seal part surrounds an steam easy permeable means, wherein the lamination strength between the layers of the complex film in hot condition is not less than 1.5 N / 15 mm in width, and the seal strength at least at the steam port seal part in hot condition is not more than 28 N / 15 mm in width.

Inventors

MITA KOZO
HAMADA YOSHITAKA
TAKAHAGI ATSUKO
YAMADA SHIN

Latest standardized assignees - inventors removed

DAI NIPPON PRINTING

Publication dates

2006-10-12
2007-12-14
2007-12-26
2008-09-25

2009-02-05

2010-10-20

2013-04-03

2013-05-07

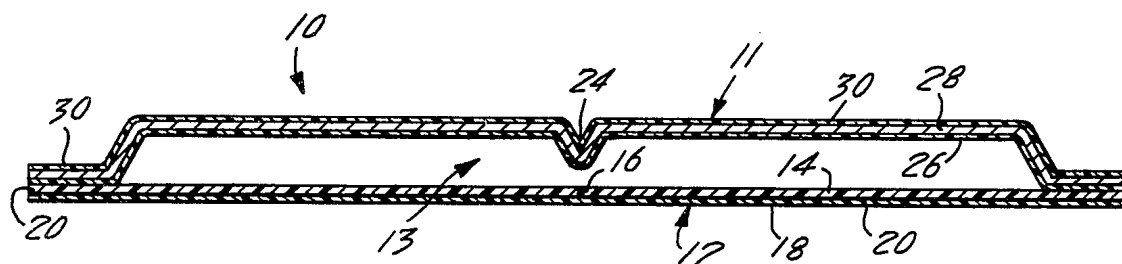
2013-12-10

Family 13/20 - FAMPAT - ©Questel

Title

(US4236652)

Dispenser package

Images**Publication data including kind & date**[US4236652](#)

A

1980-12-02

US4236652

**Abstract**

(US4236652)

An improved package for dispensing a flowable product is provided. The package has enhanced moisture resistance and is readily opened with one hand. The improvement resides in the use of an impermeate, uniaxially oriented polymeric film as a protective barrier layer over the scored outer layer of a package which comprises a scored rigid sheet member secured to a flexible sheet member forming a pocket for containment of a flowable product. The oriented film is attached over the scored rigid member to protect the contents of the package. The film ruptures when the score ruptures upon bending the scored rigid member toward the pocket to open the package.

Inventors

BEGUHN GORDON H

Latest standardized assignees - inventors removed

AMERICAN CAN

Publication dates

1980-12-02

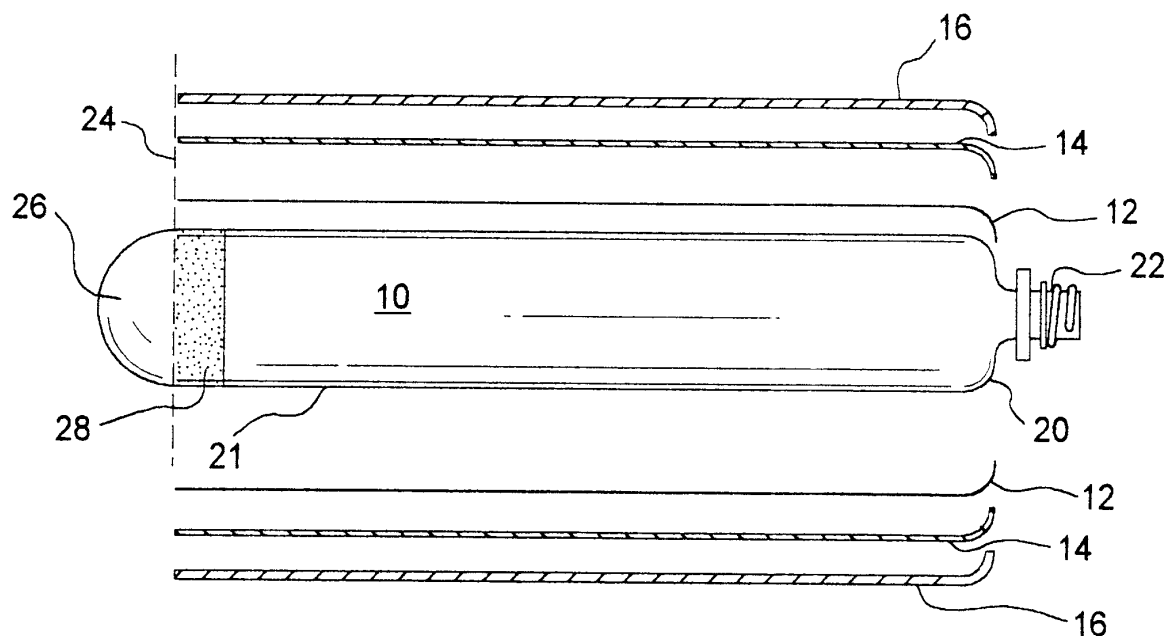
Family 14/20 - FAMPAT - ©Questel

Title

(EP1179030)

Decorated polyester tube package for aqueous compositions

Images



Publication data including kind & date

WO200066654	A1	2000-11-09	WO200066654
AU4492300	A	2000-11-17	AU200044923
US6331331	B1	2001-12-18	US6331331
BR0010168	A	2002-01-15	BR200010168
BRPI0010168	A1	2002-01-15	BRPI0010168
EP1179030	A1	2002-02-13	EP1179030
MXPA01011021	A	2002-05-06	MX2001PA011021
CO5241314	A1	2003-01-31	CO5241314A1
EP1179030	B1	2004-02-04	EP1179030
AU769988	B2	2004-02-12	AU-769988
AT258952	T	2004-02-15	ATE258952
DE60008095	D1	2004-03-11	DE60008095
DK1179030	T3	2004-06-14	DK1179030T
DE60008095	T2	2004-09-16	DE60008095
ES2215648	T3	2004-10-16	ES2215648



Abstract

(EP1179030)

Injection stretch blowmolded polyester tubes have been developed for use in packaging water-containing products. Polyester resins have good barrier properties for organic materials but poor moisture barrier properties. It has been found that the moisture barrier properties can be increased by coating the exterior surface of the tube with a first material which adheres to the tube polyester surface and to an overlayer of a moisture barrier comprising polyvinylidene chloride. However, since the overlayer of polyvinylidene chloride can develop a yellow tint, the overlayer in one embodiment is coated with an opaque decorative layer to prevent or mask the gradual yellowing of the polyvinylidene chloride overlayer. In another embodiment where the tube is to be substantially transparent, the product in the tube will have a color that will substantially cancel the yellow tint that is developed by the polyvinylidene chloride overlayer. In a further embodiment the tube is of a color to cancel out the yellow tint color of the polyvinylidene chloride layer. The moisture transmission of the tube wall in any of the embodiments is reduced to less than about 1 gram/m²/day. In a preferred embodiment both the tube wall and the upper tube shoulder have this coating structure to decrease moisture loss from the contained product through both the tube shoulder and the sidewall.

Inventors

MILLON JOEL

BERGER KENNETH

READDY ROBERT

SAMAROO DEREK

Latest standardized assignees - inventors removed

COLGATE PALMOLIVE

Publication dates

2000-11-09

2000-11-17

2001-12-18

2002-01-15

2002-01-15

2002-02-13

2002-05-06

2003-01-31

2004-02-04

2004-02-12

2004-02-15

2004-03-11

2004-06-14

2004-09-16

2004-10-16

Family 15/20 - FAMPAT - ©Questel

Title

(JP2001253028)

Multilayered film and package

Publication data including kind & date

[JP2001253028](#) A 2001-09-18 JP2001253028



Abstract

(JP2001253028)

PROBLEM TO BE SOLVED: To provide a multilayered film having excellent boil resistance in the deep draw vacuum packaging of food and capable of obtaining a package good in the transparency of a seal part, and the package thereof. SOLUTION: The multilayered film is constituted by arranging a layer comprising a polyethylene resin, which is polymerized using a metallocene catalyst, having a density of 0.88-0.92 g/cm³ to a seal layer with a thickness of 2-15 μm, which has easy opening properties due to cohesive failure, as an adjacent layer.

Inventors

ISHII KAZUhide

Latest standardized assignees - inventors removed

mitsubishi plastics industries

Publication dates

2001-09-18

Family 16/20 - FAMPAT - ©Questel

Title

(EP-929599)

Biaxially-oriented pet foil for use for smd foil capacitors, method for the production of said foil and its use as foil capacitors in smd technology

Images

$$\text{Shrinkage (\%)} = \frac{L_0 - L}{L_0} \cdot 100$$

Publication data including kind & date

WO9813415	A1	1998-04-02	WO9813415				
WO9813414	A1	1998-04-02	WO9813414				
EP0929599	A1	1999-07-21	EP-929599				
EP0929598	A1	1999-07-21	EP-929598				
KR20000048554	A	2000-07-25	KR20000048554				
KR20000048553	A	2000-07-25	KR20000048553				
US6130311	A	2000-10-10	US6130311				
JP2001504047	A	2001-03-27	JP2001504047				
US6268052	B1	2001-07-31	US6268052				
EP0929599	B1	2001-12-05	EP-929599				
DE59705699	D1	2002-01-17	DE59705699				
JP2002508782	A	2002-03-19	JP2002508782				
EP0929598	B1	2003-09-10	EP-929598				
DE59710735	D1	2003-10-16	DE59710735				
KR100482613	B1	2005-04-28	KR100482613				
KR100555163	B1	2006-03-03	KR100555163				

Abstract

(EP-929599)

The invention relates to a single or multilayer biaxially oriented polyester foil having a thickness of $\leq 12 \mu\text{m}$, in which $T_s(\text{TD})$ is $\geq 160 \text{ DEG C}$; $S_{200}(\text{TD})$ is $\leq 5 \%$; $S_{200}(\text{MD}) = 2-5 \%$; the shrinking force ratio is $N_{s220}/N_{s160} \geq 4.5$; the foil fixing peak is $\geq 210 \text{ DEG C}$; the foil thickness is $1.39-1.41 \text{ g/cm}^3$ and $T_s(\text{TD})$ is the temperature at which the cross shrinking begins, $S_{200}(\text{TD})$ stands for cross shrinking (in %) at 200 DEG C , $S_{200}(\text{MD})$ for longitudinal shrinking (in %) at 200 DEG C , N_{s220} for the shrinking force (in N) at 220 DEG C and N_{s160} for the shrinking force (in N) at 160 DEG C . The invention also concerns a method for producing and using said foil.

Inventors

KURZ RAINER

BURSCH ANNEGRETE

HORA FRANZ

KUHMANN BODO

SCHALLER ULRICH

Latest standardized assignees - inventors removed

MITSUBISHI POLYESTER FILM

Publication dates

1998-04-02

1998-04-02

1999-07-21

1999-07-21

2000-07-25

2000-07-25

2000-10-10

2001-03-27

2001-07-31

2001-12-05

2002-01-17

2002-03-19

2003-09-10

2003-10-16

2005-04-28

2006-03-03

Family 17/20 - FAMPAT - ©Questel

Title

(WO2010119449)

A polymer film and process thereof

Publication data including kind & date

IN0964/MUM/2009	A	2009-06-12	IN2009MU00964
WO2010119449	A2	2010-10-21	WO2010119449
WO2010119449	A3	2011-03-10	WO2010119449

**Abstract**

(WO2010119449)

Polymer film with uniform thickness wherein polymer are thermally laminated to metal layer in vacuum to form axially oriented, laminated polymer film, which are in better reflectance of light, better attractive glossy or matte surfaces on film, impact resistance, resistance to pinhole generation and process ability and excellent heat resistance. Metal layer is selected from silver, silver alloy, mixture of other metal with silver for better reflectance, polymer film are constructed from 100 to 350 micron thick polymer layers selected from polyester, polyethylene preferably from polyester film such as poly ethylene terephthalate.

Inventors

SHAH PARESH SHANTILAL

SHAH NIMISHA PARESH

Publication dates

2009-06-12

2010-10-21

2011-03-10

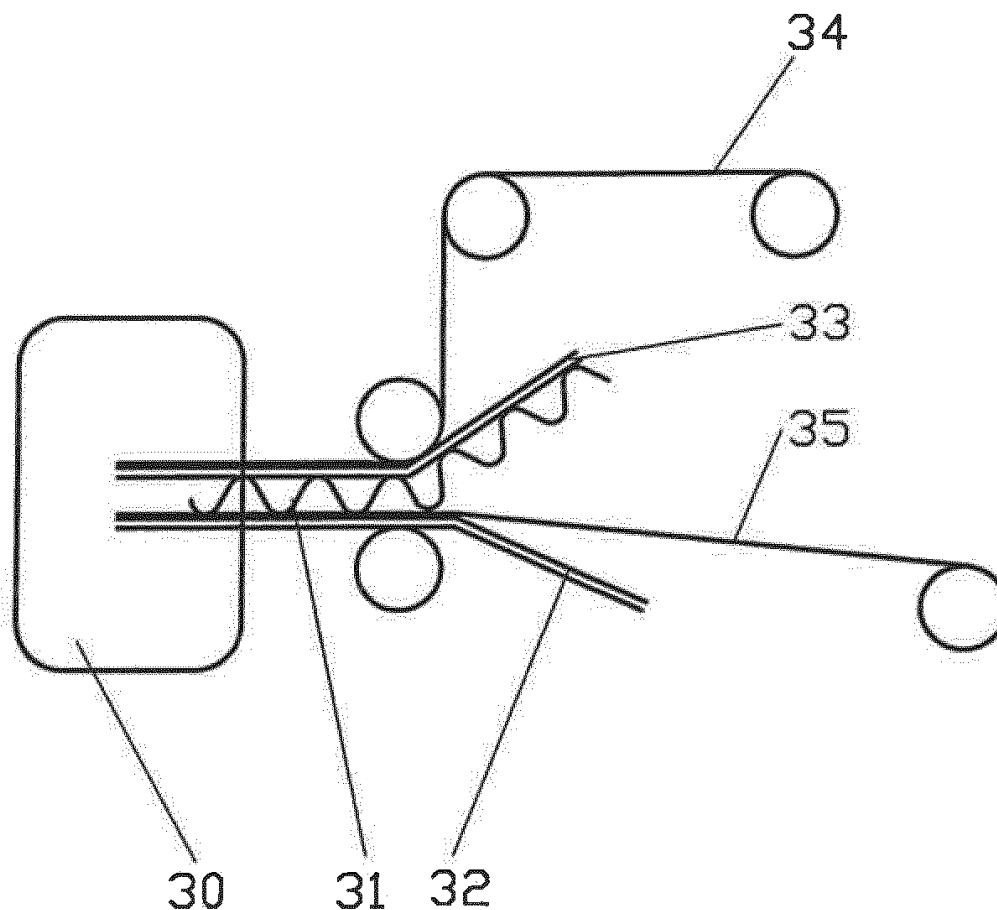
Family 18/20 - FAMPAT - ©Questel

Title

(EP2756045)

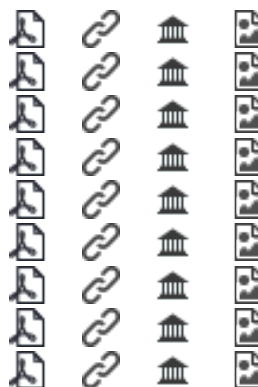
Use of an adhesive tape system for forming a tear-off strip on a cardboard box

Images



Publication data including kind & date

CA2848555	A1	2013-03-21	CA2848555
WO2013037648	A2	2013-03-21	WO201337648
DE102011089331	A1	2013-03-21	DE102011089331
WO2013037648	A3	2013-06-20	WO201337648
CN103930504	A	2014-07-16	CN103930504
EP2756045	A2	2014-07-23	EP2756045
US20140203018	A1	2014-07-24	US20140203018
JP2014532090	A	2014-12-04	JP2014532090
EP2756045	B1	2018-05-16	EP2756045



Abstract

(EP2756045)

The invention relates to an adhesive band system in particular for opening cardboard packaging, consisting of an adhesive band A provided on at least one side with an adhesive coating and having a support, wherein the support has a film and filaments extending in the longitudinal direction of the support, and an adhesive band B provided on at least one side with an adhesive coating and a film support, wherein the adhesive bands A and B are disposed one above another.

Inventors

KEREP PATRICK

Latest standardized assignees - inventors removed

TESA

Publication dates

2013-03-21

2013-03-21

2013-03-21

2013-06-20

2014-07-16

2014-07-23

2014-07-24

2014-12-04

2018-05-16

Family 19/20 - FAMPAT - ©Questel

Title

(JP2004345121)

Laminate excellent in manual cutting properties

Publication data including kind & date

JP2004345121	A	2004-12-09	JP2004345121
JP4236512	B2	2009-03-11	JP4236512

**Abstract**

(JP4236512)

PROBLEM TO BE SOLVED: To provide a laminate using a non-chlorine and non-cellophane type polyester film as a base material and manually cuttable and openable in the same way as a constitution using cellophane.

SOLUTION: The laminate excellent in manual cutting properties includes at least one rigid layer comprising paper or a metal foil and a biaxially stretched polyester film. The thickness of the biaxially stretched polyester film is 10-50 μm , the tensile strength thereof is 40-170 MPa and the tensile strength of the biaxially stretched polyester film, when the strain corresponding to the elongation at break of the rigid layer is applied to the biaxially stretched polyester film, is smaller than the breaking strength of the rigid layer.

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Inventors

NANJO KAZUNARI

MIYAKE MUNEHIRO

Latest standardized assignees - inventors removed

UNITIKA

Publication dates

2004-12-09

2009-03-11

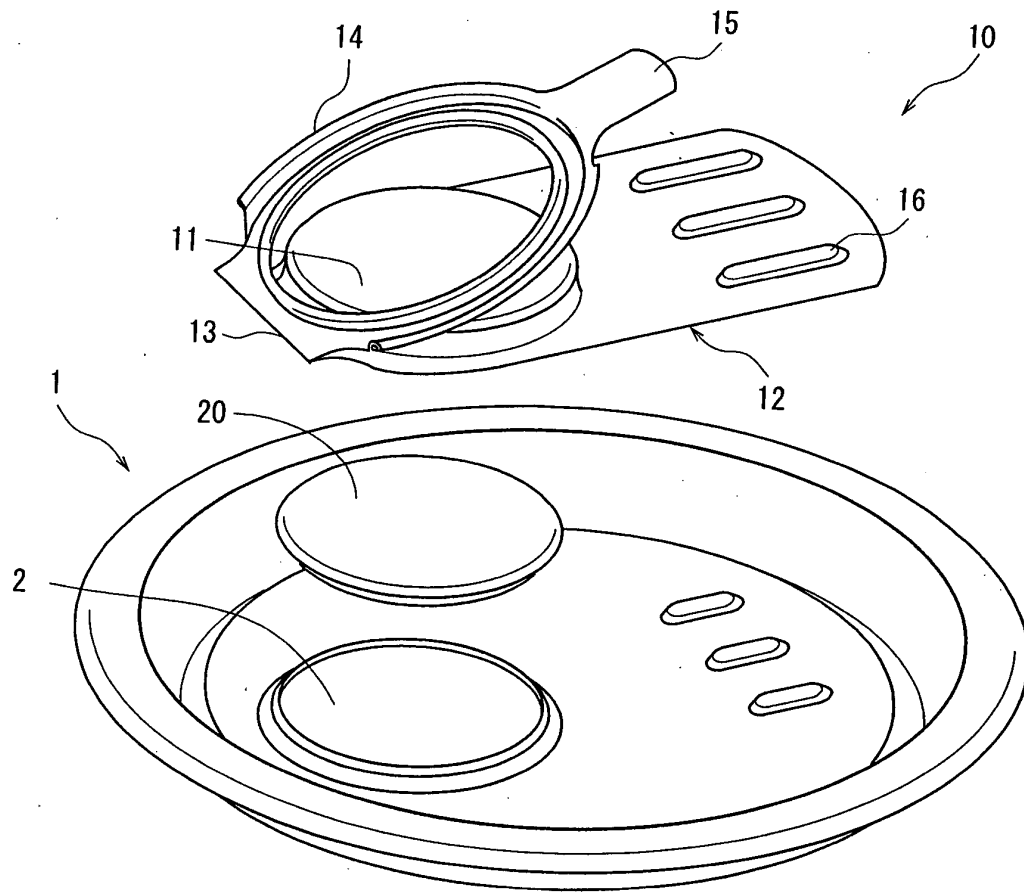
Family 20/20 - FAMPAT - ©Questel

Title

(EP1607341)

Easily openable container lid with resealability and method of producing the same

Images



Publication data including kind & date

WO2004065241	A1	2004-08-05	WO200465241
JP2004262466	A	2004-09-24	JP2004262466
JP2005088960	A	2005-04-07	JP2005088960
JP2005088961	A	2005-04-07	JP2005088961
JP2005088959	A	2005-04-07	JP2005088959
JP2005200066	A	2005-07-28	JP2005200066
KR20050095865	A	2005-10-04	KR20050095865
EP1607341	A1	2005-12-21	EP1607341
CN1764576	A	2006-04-26	CN1764576
US20060201944	A1	2006-09-14	US20060201944
JP4124077	B2	2008-07-23	JP4124077
JP4124076	B2	2008-07-23	JP4124076
EP1607341	A4	2008-11-12	EP1607341
JP4193651	B2	2008-12-10	JP4193651
JP4273773	B2	2009-06-03	JP4273773
CN100532217	C	2009-08-26	CN100532217C
KR100951133	B1	2010-04-07	KR100951133
JP4543683	B2	2010-09-15	JP4543683



Abstract

(EP1607341)

An easily unsealable container closure having re-sealing performance and comprising a closure member having an opening portion that has been formed in advance, and an unsealing tab which is so fitted to the outer surface side of the closure member as to cover the opening portion and is hermetically adhered to the periphery of the opening portion,

wherein the unsealing tab includes a flexible tab member and a plug member integrally adhered to the tab member and is so formed as to be fitted to the opening portion of the closure member, and the flexible tab member is hermetically fixed to the periphery of the opening portion in the closure member so as to be torn off. The container closure offers re-sealing performance which can be repetitively effected to temporarily seal again the once unsealed opening, and further offers excellent re-sealing performance, unseal indication function and easy-to-unseal performance. <IMAGE>

Inventors

SHIBASAKA MAMORU

OSAFUNE TATSUYA

IMODA DAISUKE

Latest standardized assignees - inventors removed

TOYO SEIKAN KAISHA

Publication dates

2004-08-05

2004-09-24

2005-04-07

2005-04-07

2005-04-07

2005-07-28

2005-10-04

2005-12-21

2006-04-26

2006-09-14

2008-07-23

2008-07-23

2008-11-12

2008-12-10

2009-06-03

2009-08-26

2010-04-07

2010-09-15