

58 Documents

Publication numbers	Title	Current assignees
CA2185081 A1	Pallet container	PROTECHNA
CA3009107 A1	Transporting and storage container for liquids	PROTECHNA
NO9404682 D0	Container for transport and storing of liquids	PROTECHNA
NO9802278 D0	Transport and storing container for liquids	PROTECHNA
CA2994989 A1	Pallet container	MAUSER WERKE
NO9404640 D0	Metallic container for transporting and storing liquids	PROTECHNA
DE102015012163 A1	Pallet container	MAUSER WERKE
NO9102264 D0	Pallet-mounted container	PROTECHNA
US20090212048 A1	Transport and storage container for fluids	PROTECHNA
DE19920011 A1	Liquid storage and transportation container comprises inner plastic container with exterior metal reinforcing grid, top of container having filling opening with sealable lip and additional emptying opening, also with a sealable lip	PROTECHNA
DE20217856 U1	Pallet like support, especially for transport and storage containers for liquids	PROTECHNA
NO9802375 D0	Transport and storage container for liquids	PROTECHNA
DE29800415 U1	Transport and storage tank for liquid	PROTECHNA
EP2418391 A1	Tube fixing for connecting a tube with a support structure and transport and storage container with such a tube fixing	PROTECHNA
DE102016000072 A1	Pallet container	MAUSER WERKE
NO20063802 L	Transport and storage container made of plastic	PROTECHNA
DE9306177 U1	Pallet container	MAUSER WERKE
CN101508378 A	Transport and storage container for fluids	PROTECHNA
BR200603377 A1	Transport and storage container for liquids	PROTECHNA
DE20107962 U1	Device for transporting and/or storing powder or liquid products	HONEYWELL SPECIALTY CHEMICALS
US5110000 A	Composite shipping container with separable top and bottom structures.	HOOVER MATERIALS HANDLING, ...
EP2426067 A1	Transport and storage container for fluids	PROTECHNA
DE4414378 A1	Container for storing and transporting liquids	PROTECHNA
HU8906145 D0	Palletised container	PROTECHNA
DE4209781 A1	Container with grid pallet box and integrated pallet - has base insert comprising hollow plastics cushion with tray like part adjoining outlet valve and engaging down from pallet base into channel.	ALTENKIRCHENER KUNSTSTOFF
MX2009001650 A	Transport and storage container for fluids	PROTECHNA

Publication numbers	Title	Current assignees
NO9204362 D0	Pallet-mounted container	SCHUETZ WERKE
NO200305019 D0	Container for fluids	SCHUETZ
DE10161693 A1	Transport pallet for hazardous fluid has layer of heat and fire insulation between plastic lining and outer wire frame	PROTECHNA
NO9200949 D0	Pallet-container	PROTECHNA
EP1046596 A1	Double walled tank for oil or similar	ROTH MANFRED
NO9600736 D0	Pallet container	PROTECHNA
FR2596360 A1	Palletized container with a protection device formed of a bent and reinforced wire structure	SOTRALENTZ
US5924589 A	Fire resistant composite intermediate bulk container	GREIF SERVICES A DELAWARE LIABILITY, ...
EP2979991 A1	Multilayer material, fire protection mat with said multilayer material and transport and storage container assembly comprising said fire protection mat.	GREIF INTERNATIONAL HOLDING
DE9412606 U1	Pallet container	SCHNEIDER HELMHOLD DR
DE102015014084 A1	Intermediate bulk container	MAUSER WERKE
DE202013000624 U1	Pallet container	MAUSER WERKE
DE20021321 U1	Transport and storage container for liquids	PROTECHNA
NO200304118 D0	Transport and storing container for liquids	PROTECHNA
DE20206652 U1	Transportable storage container for liquids	PROTECHNA
DE4438739 C1	Pallet container for the transport and storage of liquids	PROTECHNA
NO200005687 D0	Transport and storage container for liquids	PROTECHNA
WO200582739 A1	Pallet container	MAUSER WERKE
NO200005500 D0	Transport and storage container for liquids and manufacturing process for the insert of said container	PROTECHNA
NO9803380 D0	transport and storage container for liquids	PROTECHNA
DE20009113 U1	Transport and storage device	RICHTER GUENTER
DE9214708 U1	Pallet container assembly	MAUSER WERKE
ZA200402004 B	Transport and storage container for liquid	PROTECHNA
BR9505687 A1	Stackable box pallet	SOTRALENTZ
WO201501042 A1	Inner container made of plastic and transport and storage container for liquids having such an inner container	PROTECHNA
DE20316883 U1	pallet-like base for a container for transporting and storing liquids	PROTECHNA
DE10301517 B3	Transport- and storage container for liquids	PROTECHNA
DE20218766 U1	Stiffening plate for a carrying surface of a pallet	PROTECHNA
US20120211395 A1	Support base for transport and storage containers for liquids	PROTECHNA

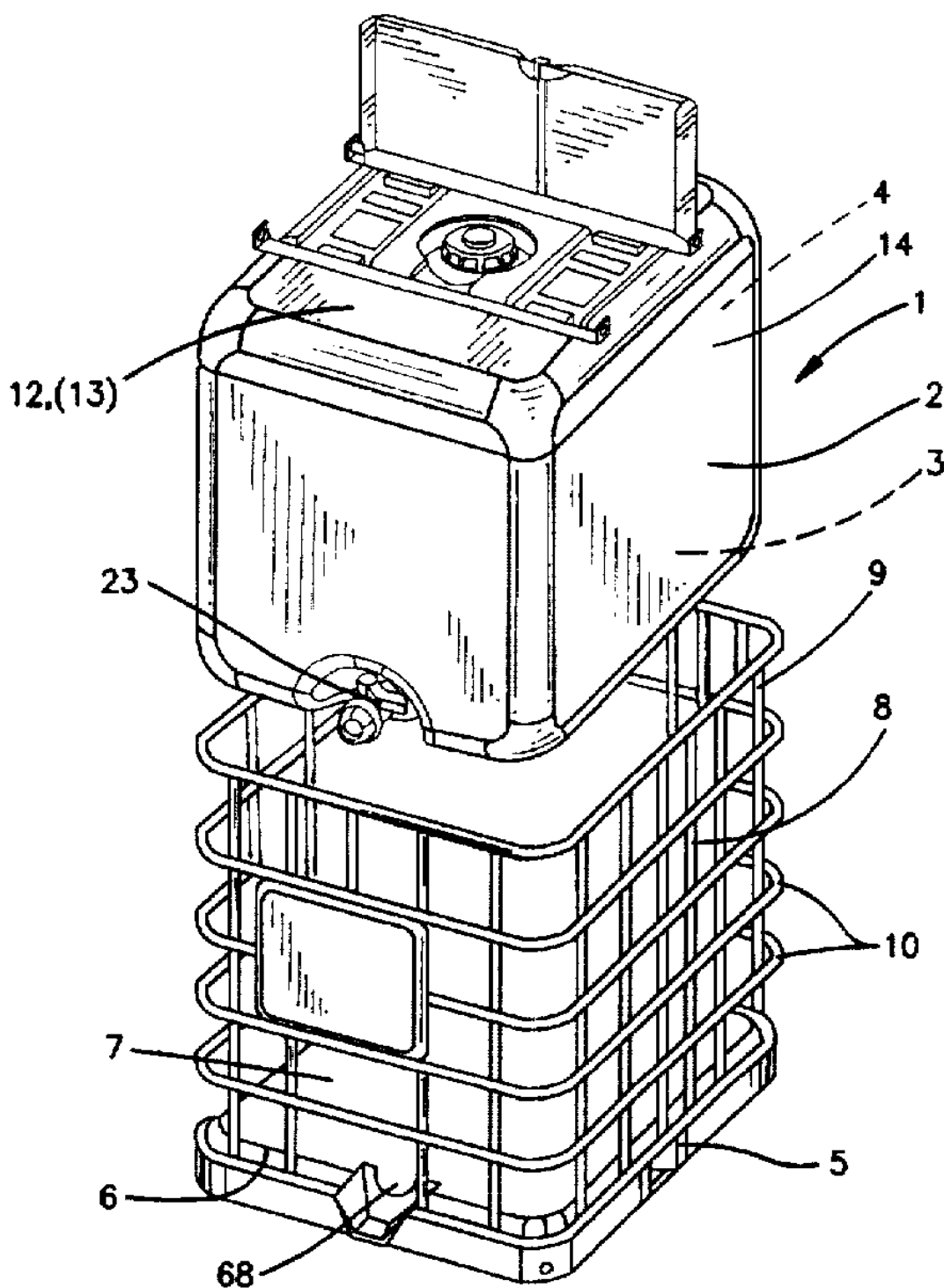
Publication numbers	Title	Current assignees
EP2520504 A1	Palette-style subframe for transport and storage container for fluids	PROTECHNA
BR9304465 A1	Palletized container comprising pallet, outer housing and plastic inner container.	SOTRALENTZ
CN102765531 A	Runner pallet, in particular for transport and storage container for fluids	PROTECHNA

Family 1/58 - FAMPAT - ©Questel

Title

(EP-765820)

Pallet container

Images**Publication data including kind & date**

CA2185081	A1	1997-03-27	CA2185081
DE19535707	A1	1997-03-27	DE19535707
EP0765820	A1	1997-04-02	EP-765820
MX9604321	A	1997-08-30	MX9604321
US5680955	A	1997-10-28	US5680955

**Abstract**

(EP-765820)

The fluid container(2) is formed in one piece with a moulded-on hinged lid, or in two parts. The exchangeable inner shell(4) is suspended in an opening(17) in the cover(12) or upper base(13) of the fluid container. The inner shell is held in the opening by an inherently stable filler connection with an external thread for the screwing on of a valve cap. The inner shell has an inherently stable flexible upper section upon which the filler connection is formed, and which in the installed position lies upon the inner side of the cover.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

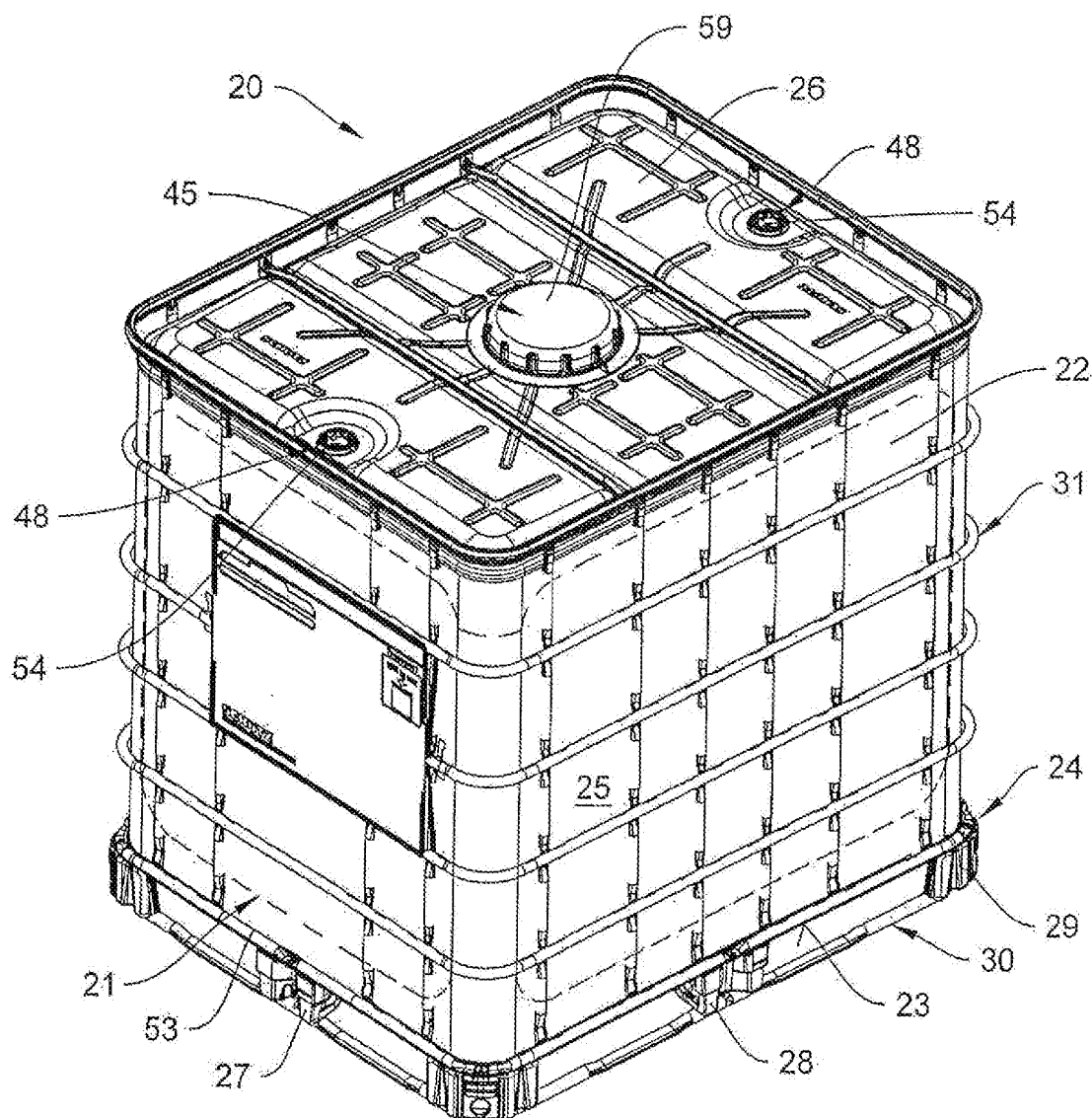
PROTECHNA

Family 2/58 - FAMPAT - ©Questel

Title

(EP3393932)

Transporting and storage container for liquids

Images**Publication data including kind & date**[CA3009107](#)

A1 2017-06-29

CA3009107

[DE102015016814](#)

A1 2017-06-29

DE102015016814

[WO2017/108288](#)

A1 2017-06-29

WO2017108288



TW201728512	A	2017-08-16	TW201728512				
AR107065	A1	2018-03-14	AR-107065				
AU2016375640	A1	2018-06-28	AU2016375640				
IN201827021648	A	2018-06-29	IN201827021648				
TWI628127	B	2018-07-01	TWI628127				
BR112018012958	A1	2018-07-03	BR112018012958				
CL2018001676	A1	2018-07-27	CL1676201800				
KR20180085763	A	2018-07-27	KR20180085763				
SG11201805216T	A	2018-07-30	SG11201805216T				
IL259932	A	2018-07-31	IL-259932				
CN108430883	A	2018-08-21	CN108430883				
CO2018006402	A2	2018-08-31	CO2018006402				
VN59407	A	2018-09-25	VN--59407				
EP3393932	A1	2018-10-31	EP3393932				
MX2018007523	A	2018-11-14	MX2018007523				
BR112018012958	A2	2018-12-04	BR112018012958				
US20180362237	A1	2018-12-20	US20180362237				
JP2019500289	A	2019-01-10	JP2019500289				
PH12018501349	A1	2019-02-18	PH12018501349				

Abstract

(EP3393932)

Transporting and storage container (20) for liquids, having an inner container (22) made of plastics material, having an outer casing (31), which is designed preferably in the form of a lattice and is made of metal, and having a pallet-like lower framework (24), which is designed to be handled by means of forklift trucks or similar means of transport, and having a supporting base (23) which is made of sheet metal and is intended for supporting the inner container (22), which has at least one filler nozzle (45) provided on its upper side, wherein the inner container (22) and the outer casing (31) have arranged between them an intermediate container (21) which is made of sheet metal, accommodates the inner container on all sides and has a lateral-surface enclosure (25), a container cover (26), which is connected to the lateral-surface enclosure (25), and a container-base, which is connected to the lateral-surface enclosure (25), wherein the container base is formed by the supporting base (23) of the lower framework (24).

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

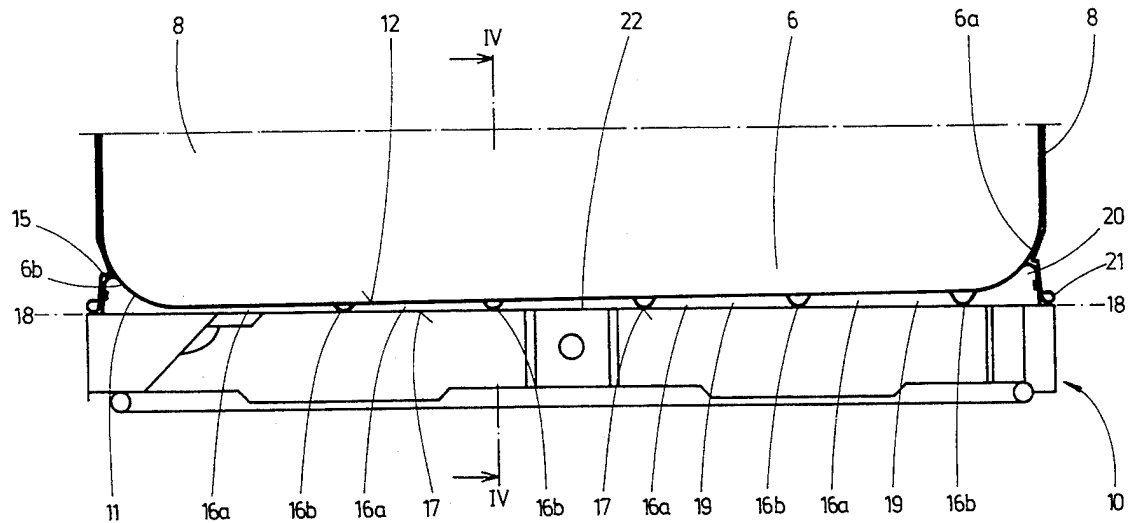
Family 3/58 - FAMPAT - ©Questel

Title

(EP-657365)

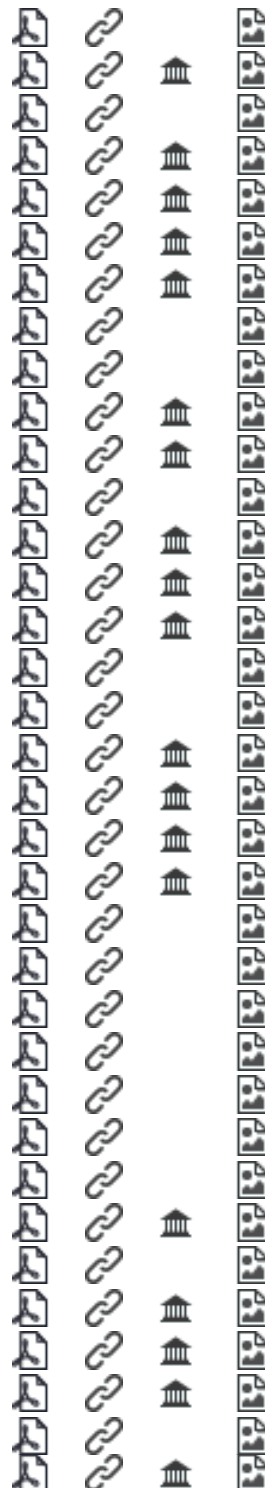
Container for transport and storing of liquids

Images



Publication data including kind & date

NO944682	D0	1994-12-05	NO9404682
BRPI9404863	A1	1995-02-14	BR9404863
HU9403487	D0	1995-02-28	HU9403487
IL111858	A	1995-03-15	IL-111858
NO944682	L	1995-06-07	NO-944682
CA2136380	A1	1995-06-07	CA2136380
DE4341539	A1	1995-06-08	DE4341539
PL306083	A1	1995-06-12	PL94306083
CZ304794	A3	1995-06-14	CZ9403047
EP0657365	A1	1995-06-14	EP-657365
AU8020394	A	1995-06-15	AU9480203
SK149194	A3	1995-07-11	SK9401491
KR19950017668	A	1995-07-20	KR19950017668
TW252085	B	1995-07-21	TW-252085
BR9404863	A	1995-08-01	BR9404863
ZA9409515	B	1995-08-14	ZA9409515
HUT68867	A	1995-08-28	HU-T68867
US5447250	A	1995-09-05	US5447250
JP07300188	A	1995-11-14	JP07300188
CN1114628	A	1996-01-10	CN1114628
EE9400217	A	1996-02-15	EE9400217
LV11160	A	1996-04-20	LV--11160
LV11160	B	1996-08-20	LV--11160
RU94043326	A	1996-10-20	RU94043326
RU94043326	A1	1996-10-20	RU94043326
HRP940971	A2	1996-12-31	HRP940971
HU213486	B	1997-07-28	HU-213486
YU70194	A	1997-07-31	YU9400701
AU681457	B2	1997-08-28	AU-681457
RU2089477	C1	1997-09-10	RU2089477
JP2676189	B2	1997-11-12	JP2676189
CA2136380	C	1997-12-02	CA2136380
EP0657365	B1	1998-02-04	EP-657365
AT162994	T	1998-02-15	ATE162994



DE59405228	D1	1998-03-12	DE59405228
ES2111830	T3	1998-03-16	ES2111830
DE4341539	C2	1998-07-09	DE4341539
DK0657365	T3	1998-09-23	DK-657365T
PL175449	B1	1998-12-31	PL-175449
NO306985	B1	2000-01-24	NO-306985
BRPI9404863	B1	2000-01-25	BR9404863
CN1056583	C	2000-09-20	CN1056583C



Abstract

(EP-657365)

The container (1), which can be used as a disposable and as a reusable container, for transporting and storing liquids has as its main components an inner container (2) which is made of plastic as a blow-moulded item of rectangular contour and rounded corners and is fitted with a filling nozzle (3), which can be closed by a screw cap (4), and a removal tap connected to an outlet nozzle (5) in the bottom region, a casing (8) of zinc-coated sheet metal with an operating opening (9) for the removal tap, and a pallet (10) designed as a flat bottom tray (11) of sheet metal with length and width dimensions complying to European standards for the positive-locking receiving of the plastic inner container (2). The sheet-metal casing (8) has a peripheral constriction in the lower region for supporting the bottom region of the inner container (2) together with the bottom tray (11) of the pallet (10).

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 4/58 - FAMPAT - ©Questel

Title

(EP-879771)

Transport and storing container for liquids

Images

DE19720931	C2	1999-12-02	DE19720931				
AR008342	A1	1999-12-29	AR---8342				
EP0879771	B1	2000-11-02	EP-879771				
DE59800321	D1	2000-12-07	DE59800321				
ES2151305	T3	2000-12-16	ES2151305				
DK0879771	T3	2001-01-08	DK-879771T				
AU739967	B2	2001-10-25	AU-739967				
RU2184062	C2	2002-06-27	RU2184062				
CN1094873	C	2002-11-27	CN1094873C				
JP3574327	B2	2004-07-09	JP3574327				
NO318589	B1	2005-04-11	NO-318589				
BRPI9801663	A1	2005-05-24	BR199801663				
BRPI9801663	B1	2005-08-30	BRPI9801663				
IN1070/CHE/1998	A	2005-10-28	IN1998CH01070				
MY125885	A	2006-08-30	MY-125885				
PL192620	B1	2006-11-30	PL-192620				
IN200826	B	2007-02-23	IN-200826				

Abstract

(EP-879771)

This new container transports and stores fluids. Its interchangeable plastic vessel is surrounded by vertical and horizontal metal rods forming an enclosing cage. The underframe resembles a palette. The vessel has four sidewalls, a top and bottom. Its upper filling opening has a closure, the lower outlet has a valve for emptying. In novel design, a supportive insert (18) intervenes between container (2) and outer cage (9). This comprises four side walls (18a-d) in electrically-conductive material. Preferably this insert (18) and the under frame (12) are made of metal or an electrically-conductive plastic, e.g. polyethylene with a proportion of conductive carbon black.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 5/58 - FAMPAT - ©Questel

Title

(EP3337735)

Pallet container

Images

surrounds the plastics inner container and which serves as a supporting shell, and having a base pallet (14) on which the plastics container lies and to which the tubular lattice frame (12) is fixedly connected, wherein the plastics inner container is enclosed on all sides by a fire protection insulation mat (20) which, with a sheet-metal shell casing on all sides being omitted, is arranged directly between the tubular lattice frame (12) and the plastics inner container, wherein the fire protection insulation mat (20) is of two-layer form and has an inner layer composed of heat-resistant nonwoven (30) and an outer heat-resistant textile fabric layer (28).

Inventors

WEYRAUCH DETLEV

Latest standardized assignees - inventors removed

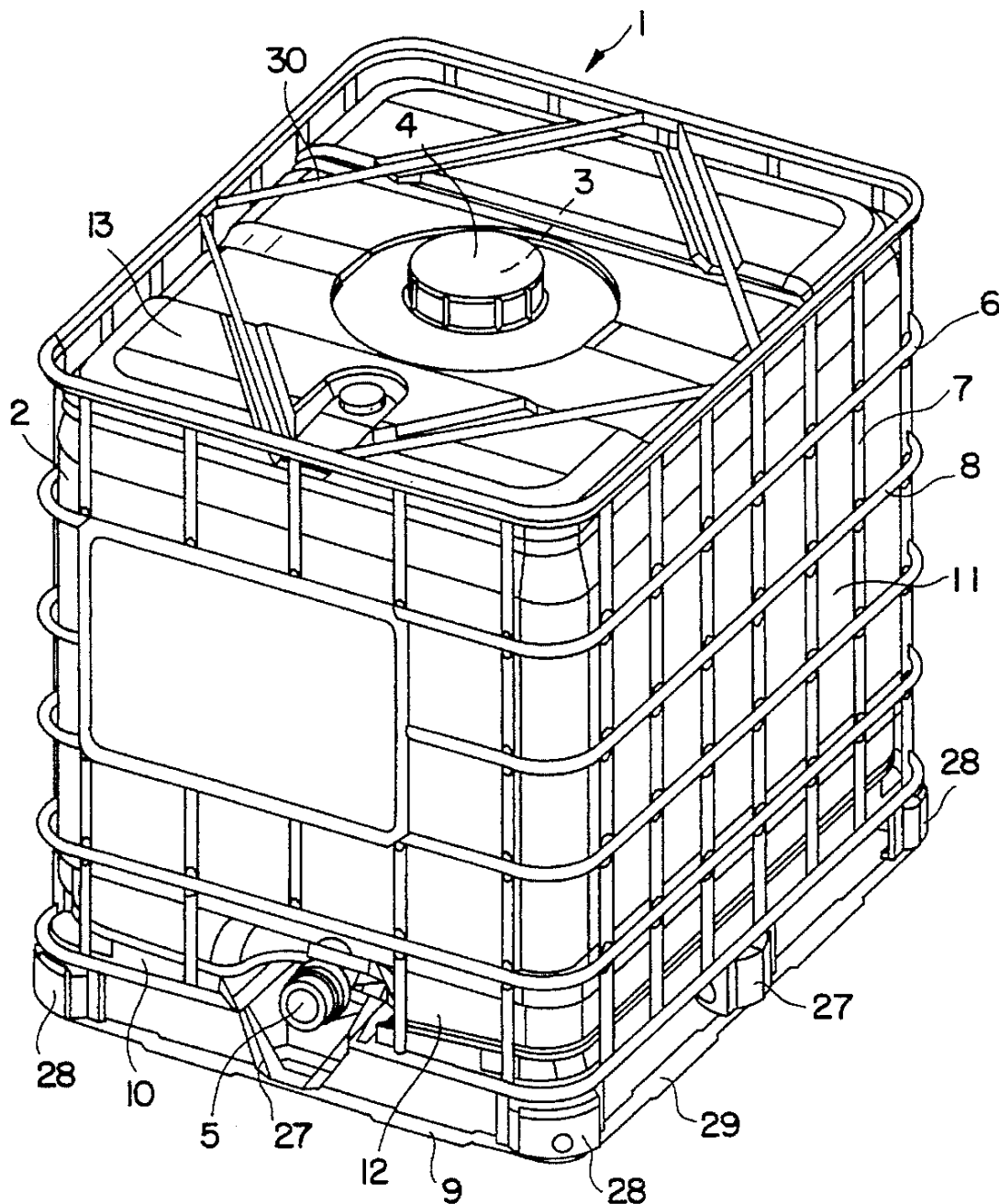
MAUSER WERKE

Family 6/58 - FAMPAT - ©Questel

Title

(EP-656299)

Metallic container for transporting and storing liquids

Images

Publication data including kind & date

NO944640	D0	1994-12-02	NO9404640				
IL111716	A	1995-01-24	IL-111716				
BRPI9404841	A1	1995-02-14	BR9404841				
HU9403460	D0	1995-02-28	HU9403460				
CA2137215	A1	1995-06-05	CA2137215				
NO944640	L	1995-06-06	NO-944640				
EP0656299	A2	1995-06-07	EP-656299				
DE4341338	A1	1995-06-08	DE4341338				
PL306081	A1	1995-06-12	PL94306081				
AU8020894	A	1995-06-15	AU9480208				
SK148594	A3	1995-07-11	SK9401485				
KR19950017666	A	1995-07-20	KR19950017666				
TW252084	B	1995-07-21	TW-252084				
BR9404841	A	1995-08-01	BR9404841				
ZA9409080	B	1995-08-18	ZA9409080				
HUT69547	A	1995-09-28	HU-T69547				
CN1111209	A	1995-11-08	CN1111209				
CZ292994	A3	1995-11-15	CZ9402929				
US5467884	A	1995-11-21	US5467884				
EE9400215	A	1996-02-15	EE9400215				
EP0656299	A3	1996-03-20	EP-656299				
US5503322	A	1996-04-02	US5503322				
LV11159	A	1996-04-20	LV--11159				
JP08104329	A	1996-04-23	JP08104329				
CZ281036	B6	1996-05-15	CZ-281036				
LV11159	B	1996-08-20	LV--11159				
RU94042900	A	1996-10-20	RU94042900				
RU94042900	A1	1996-10-20	RU94042900				
HRP940941	A2	1996-12-31	HRP940941				
AU676954	B2	1997-03-27	AU-676954				
YU67194	A	1997-07-31	YU9400671				
RU2094347	C1	1997-10-27	RU2094347				
IL111716	B	1998-02-22	IL-111716				
JP2753963	B2	1998-05-20	JP2753963				
PL175010	B1	1998-10-30	PL-175010				
EP0656299	B1	1999-02-03	EP-656299				
AT176442	T	1999-02-15	ATE176442				
DE59407771	D1	1999-03-18	DE59407771				
ES2126698	T3	1999-04-01	ES2126698				
BRPI9404841	B1	1999-08-24	BR9404841				
DK0656299	T3	1999-09-20	DK-656299T				
CN1045421	C	1999-10-06	CN1045421C				
NO310968	B1	2001-09-24	NO-310968				

Abstract

(EP-656299)

The sheet-metal container (1) used as a disposable and as a reusable container for transporting and storing liquid products has a filling nozzle (3), which can be closed by a lid (4), and a further nozzle (5) in the bottom region for the connection of a

removal and rinsing tap, an outer grid casing (6) made of metal and a pallet (9) designed as a flat bottom tray (10) of sheet metal with length and width dimensions complying with the European Standard for positive-locking receiving of the sheet-metal container (1) which is fitted with a drainage bottom. The sheet-metal container (1) is welded together from a casing (11), a bottom part (12) and a lid (13). The casing (11), bottom part (12) and lid (13) of the container (1) produced as a dual-wall composite structure consist of a thin inner sheet of special stainless steel and an outer sheet of ordinary steel whose thickness is greater than that of the inner sheet. It is possible to produce the container (1) of plated metal with a thin inner layer of special steel and a thicker outer layer of ordinary steel.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

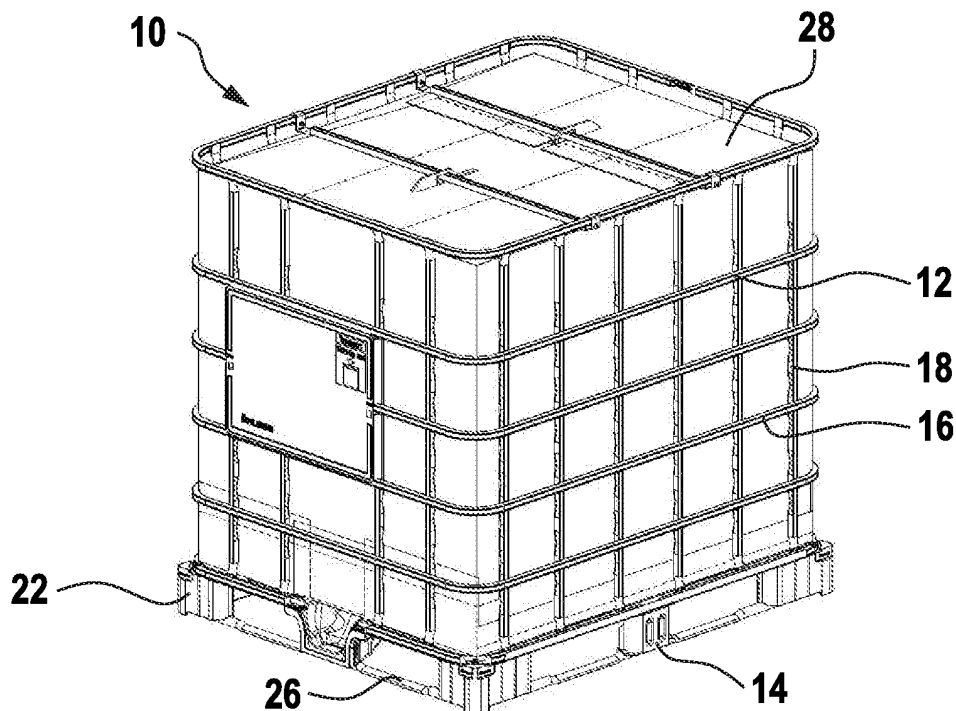
Family 7/58 - FAMPAT - ©Questel

Title

(EP3353088)

Pallet container

Images



Publication data including kind & date

DE102015012163	A1	2017-03-23	DE102015012163
CA2999601	A1	2017-03-30	CA2999601
WO2017/050420	A1	2017-03-30	WO201750420
BR112018005785	A1	2018-04-03	BR112018005785
AU2016328081	A1	2018-04-12	AU2016328081
SG11201802224T	A	2018-04-27	SG11201802224T
KR20180056711	A	2018-05-29	KR20180056711
IL258125	A	2018-05-31	IL-258125
IN201817009768	A	2018-06-22	IN201817009768
CN108290672	A	2018-07-17	CN108290672
MX2018003538	A	2018-08-01	MX2018003538



EP3353088	A1	2018-08-01	EP3353088
JP2018527268	A	2018-09-20	JP2018527268
BR112018005785	A2	2018-10-16	BR112018005785
US20180346220	A1	2018-12-06	US20180346220

**Abstract**

(EP3353088)

The invention relates to a pallet container (10) with a composite base pallet (14) for storing and for transporting in particular combustible or highly flammable fluid filling goods, comprising a thin-walled, rigid inner container made from thermoplastic material, a tube grid frame (12), tightly surrounding the plastic inner container as a supporting jacket, and a base pallet (14) on which the plastic container rests and to which the tube grid frame (12) is securely connected, wherein the plastic inner container is surrounded on all sides by a fire protection insulating mat (28), wherein the composite base pallet (14) is equipped with a heat-resistant support element (30) in each plastic corner foot (22) to retain the stability of the composite base pallet in the case of prolonged heat exposure.

Inventors

WEYRAUCH DETLEV

WAHMES LUKAS

Latest standardized assignees - inventors removed

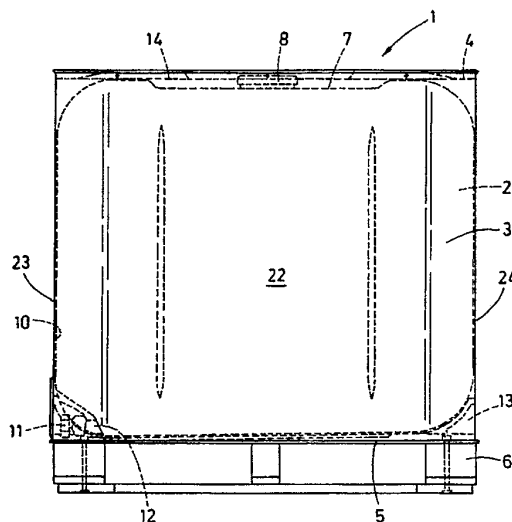
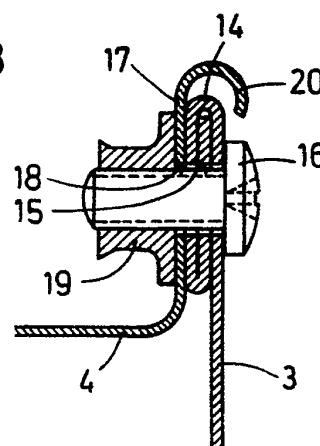
MAUSER WERKE

Family 8/58 - FAMPAT - ©Questel

Title

(EP-461666)

Pallet-mounted container

Images**Fig. 1****Fig. 3****Publication data including kind & date**

NO912264	D0	1991-06-12	NO9102264
CA2044657	A1	1991-12-16	CA2044657
NO912264	L	1991-12-16	NO-912264
CS9101831	A2	1991-12-17	CS9101831
IE912030	A1	1991-12-18	IE9102030
EP0461666	A1	1991-12-18	EP-461666
CN1057434	A	1992-01-01	CN1057434



DE4019042	C1	1992-01-02	DE4019042				
BR9102455	A	1992-01-21	BR9102455				
BRPI9102455	A1	1992-01-21	BRPI9102455				
ZA9103944	B	1992-02-26	ZA9103944				
IL98475	A	1992-07-15	IL--98475				
US5133476	A	1992-07-28	US5133476				
CZ278044	B6	1993-03-17	CZ-278044				
JP05132063	A	1993-05-28	JP05132063				
PT97969	A	1993-06-30	PT--97969				
SU1838195	A3	1993-08-30	SU1838195				
RU1838195	C	1993-08-30	RU1838195				
EP0461666	B1	1993-09-22	EP-461666				
AT94839	T	1993-10-15	ATE094839				
DE59100403	D1	1993-10-28	DE59100403				
MX172170	B	1993-12-06	MX-172170				
DK0461666	T3	1993-12-27	DK-461666T				
CN1023465	C	1994-01-12	CN1023465C				
ES2045989	T3	1994-01-16	ES2045989				
IL98475	B	1994-01-25	IL--98475				
YU106591	A	1994-11-15	YU9101065				
CA2044657	C	1994-12-27	CA2044657				
PL165564	B1	1995-01-31	PL-165564				
BRPI9102455	B1	1995-10-31	BR9102455				
YU47989	B	1996-08-13	YU--47989				
IE69363	B1	1996-09-04	IE--69363				
JP2671067	B2	1997-10-29	JP2671067				
PT97969	B	1998-12-31	PT--97969				

Abstract

(EP-461666)

The pallet container (1), developed with the intended objective of simplifying the lid fastening feature as compared with conventional containers, with an inner container (2) of a synthetic resin and with a sheet-metal jacket (3) in close contact with this inner container, this jacket being attached to a flat pallet (16), is characterized in that the upper rim of the sheet-metal jacket (3) is designed as a triple folded rim (14) to which the lid (4) is attached by threaded fasteners.

(From US5133476 A)

Inventors

SCHUETZ, UDO

Latest standardized assignees - inventors removed

PROTECHNA

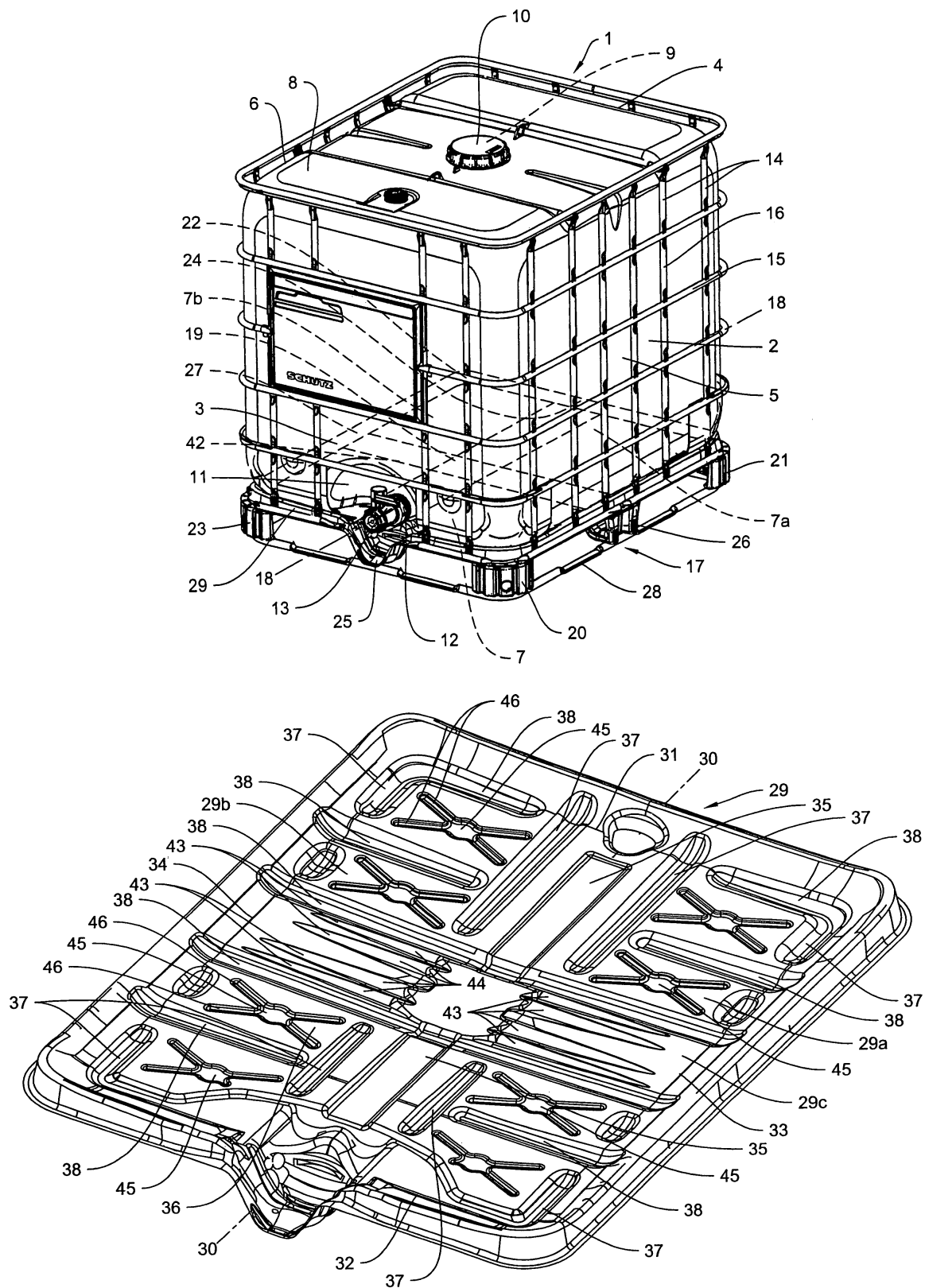
Family 9/58 - FAMPAT - ©Questel

Title

(EP2096044)

Transport and storage container for fluids

Images



Publication data including kind & date

US20090212048	A1	2009-08-27	US20090212048
CN101519149	A	2009-09-02	CN101519149
EP2096044	A1	2009-09-02	EP2096044
MX2009002139	A	2009-09-03	MX2009002139
JP2009202946	A	2009-09-10	JP2009202946
AU2009200787	A1	2009-09-10	AU2009200787
IN0409/CHE/2009	A	2009-09-11	IN2009CH00409



DE102008027337	A1	2009-09-17	DE102008027337				
ZA200900756	B	2009-12-30	ZA200900756				
BRPI0900697	A2	2010-01-19	BR200900697				
EP2096044	B1	2010-04-07	EP2096044				
AR070528	A1	2010-04-14	AR--70528				
AT463441	T	2010-04-15	ATE463441				
DE502009000008	D1	2010-05-20	DE502009000008				
ES2342514	T3	2010-07-07	ES2342514				
RU2397931	C1	2010-08-27	RU2397931				
MY143233	A	2011-04-15	MY-143233				
AU2009200787	B2	2011-10-27	AU2009200787				
JP5052546	B2	2012-08-03	JP5052546				
CN101519149	B	2013-06-12	CN101519149B				
US8863972	B2	2014-10-21	US8863972				
IN272616	B	2016-04-15	IN-272616				
BRPI0900697	B1	2018-12-18	BR200900697				

Abstract

(EP2096044)

Transport and storage container for liquids, has inner container comprising drain bottom with middle draining groove, where angle of inclination of bottom sections of underframe has slight downward inclination toward bottom rim

The container (1) has an underframe (17) adapted to a bottom (7) of an inner container (2). A bottom (29) of a sheet metal is rested on corner and middle legs (26, 27) for supporting the inner container equipped with a closable filling socket (9) and a drain socket (12). The inner container includes a drain bottom with a middle draining groove extending with a slight downward inclination from a rear wall (4) of the container to the drain socket, where an angle of inclination of bottom sections of the underframe has a slight downward inclination towards a bottom rim, and is in a specific range.

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

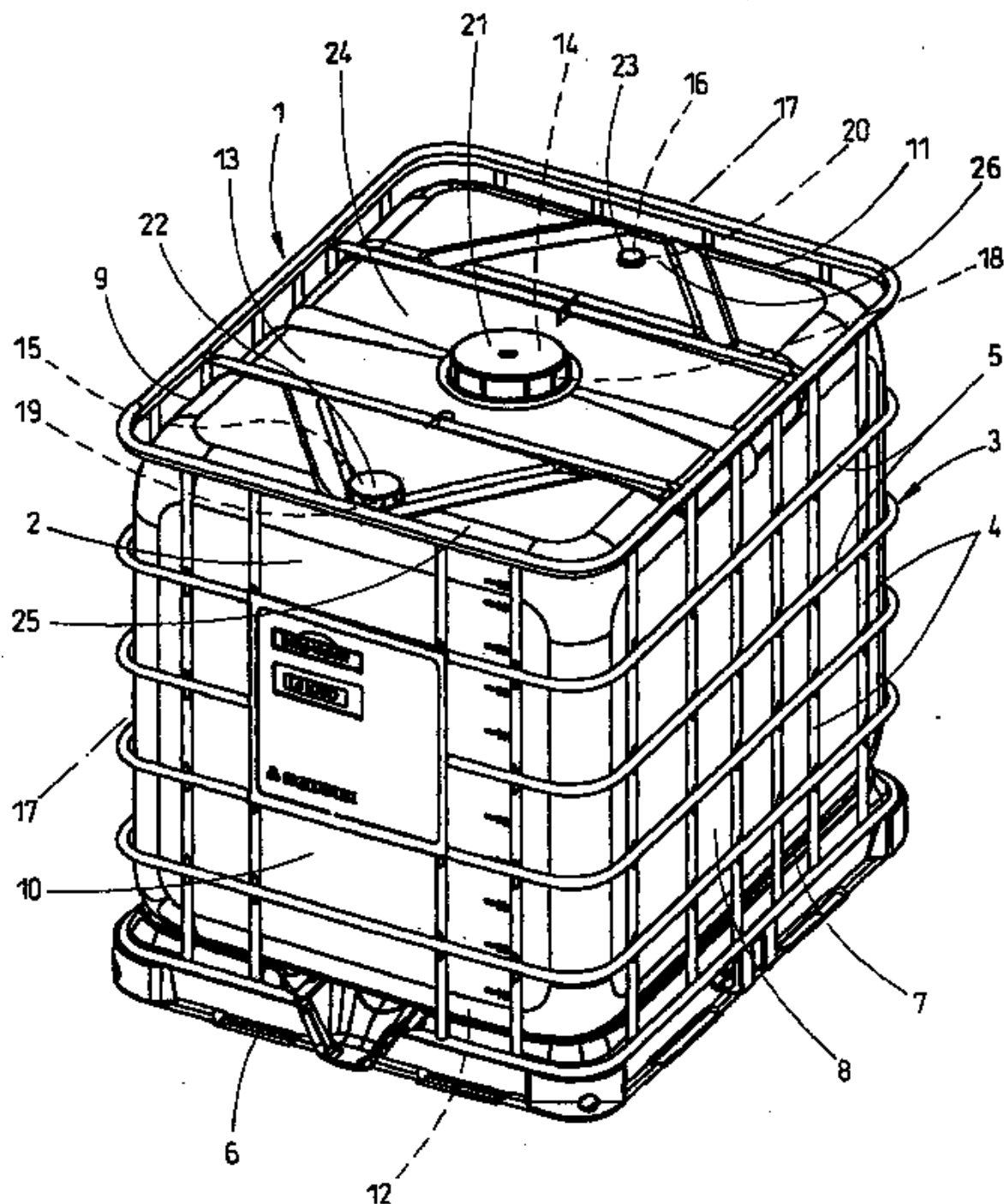
Family 10/58 - FAMPAT - ©Questel

Title

(DE19920011)

Liquid storage and transportation container comprises inner plastic container with exterior metal reinforcing grid, top of container having filling opening with sealable lip and additional emptying opening, also with a sealable lip

Images



Publication data including kind & date

DE19920011

A1 2000-12-14

DE19920011



Abstract

(DE19920011)

The liquid storage and transportation container comprises an inner plastic container (2) with an exterior metal reinforcing grid (3). The novel feature is that the top (13) of the container has a filling opening (14) with sealable lip (18) and additionally has an emptying opening (15) also with a sealable lip (19).

Latest standardized assignees - inventors removed

PROTECHNA

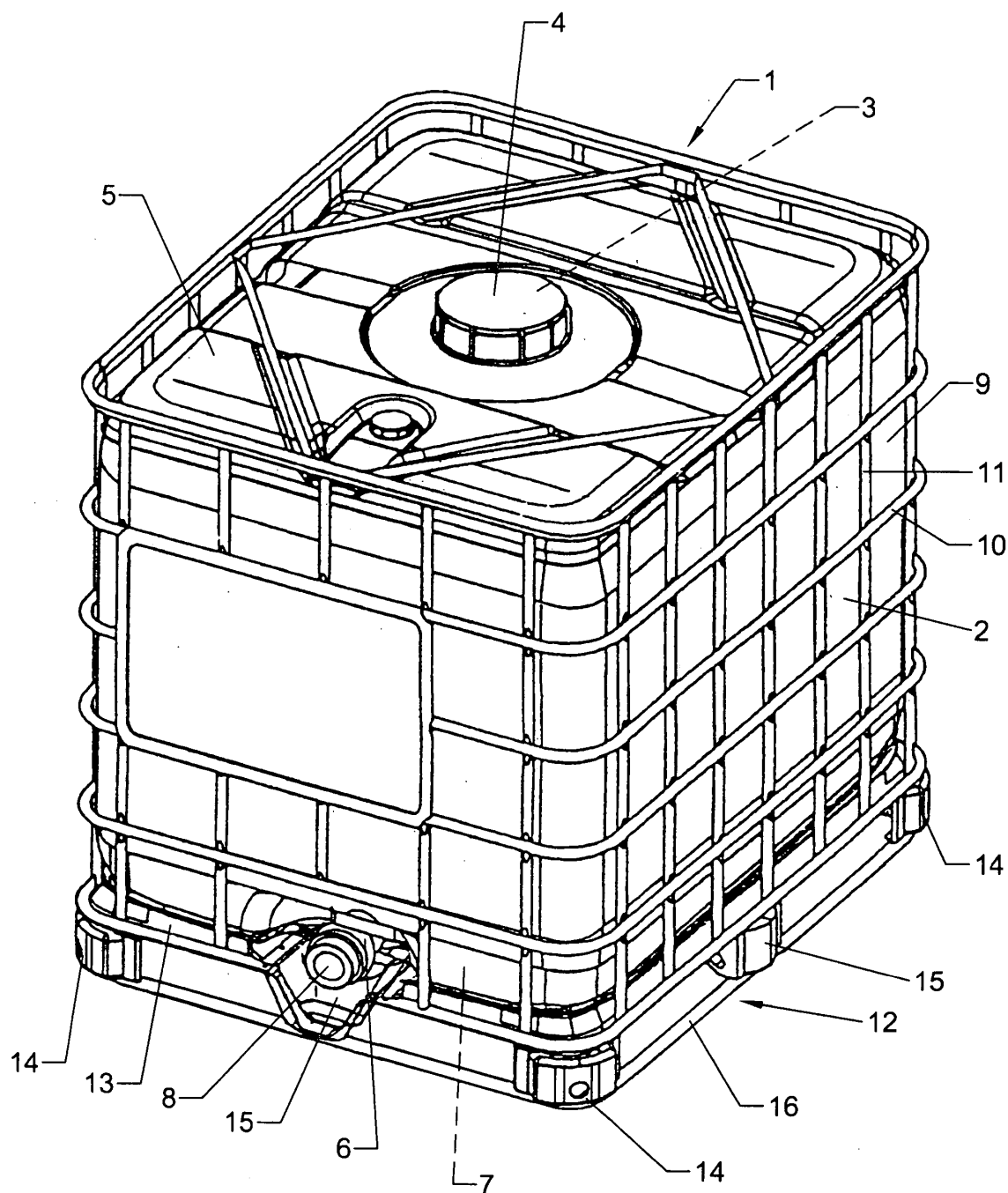
Family 11/58 - FAMPAT - ©Questel

Title

(EP1422162)

Pallet like support, especially for transport and storage containers for liquids

Images



Publication data including kind & date

DE20217856	U1	2003-02-13	DE20217856
NO20035132	D0	2003-11-18	NO200305132
ZA200308501	B	2004-02-17	ZA200308501
BRPI0305141	A1	2004-04-13	BR200305141
NO20035132	L	2004-05-21	NO20035132
EP1422162	A2	2004-05-26	EP1422162
PL363462	A1	2004-05-31	PL2003363462
AU2003262329	A1	2004-06-03	AU2003262329
JP2004168424	A	2004-06-17	JP2004168424
CN1509946	A	2004-07-07	CN1509946
US20040149610	A1	2004-08-05	US20040149610
BR0305141	A	2004-08-31	BR200305141
EP1422162	A3	2005-01-19	EP1422162



MXPA03010495	A	2005-04-19	MX2003PA010495			
RU2003133642	A	2005-04-20	RU2003133642			
AR042082	A1	2005-06-08	AR--42082			
RU2268212	C2	2006-01-20	RU2268212			
AU2003262329	B2	2006-04-06	AU2003262329			
BRPI0305141	A2	2010-03-30	BR200305141			

Abstract

(EP1422162)

A pallet-mounted liquid container has a plastic tank with an inlet, outlet and closures. The tank resides within a metal cage resting on a metal base (12) with supporting feet at corners (14) and mid-points (15). The feet esp. have strengthening shells.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 12/58 - FAMPAT - ©Questel

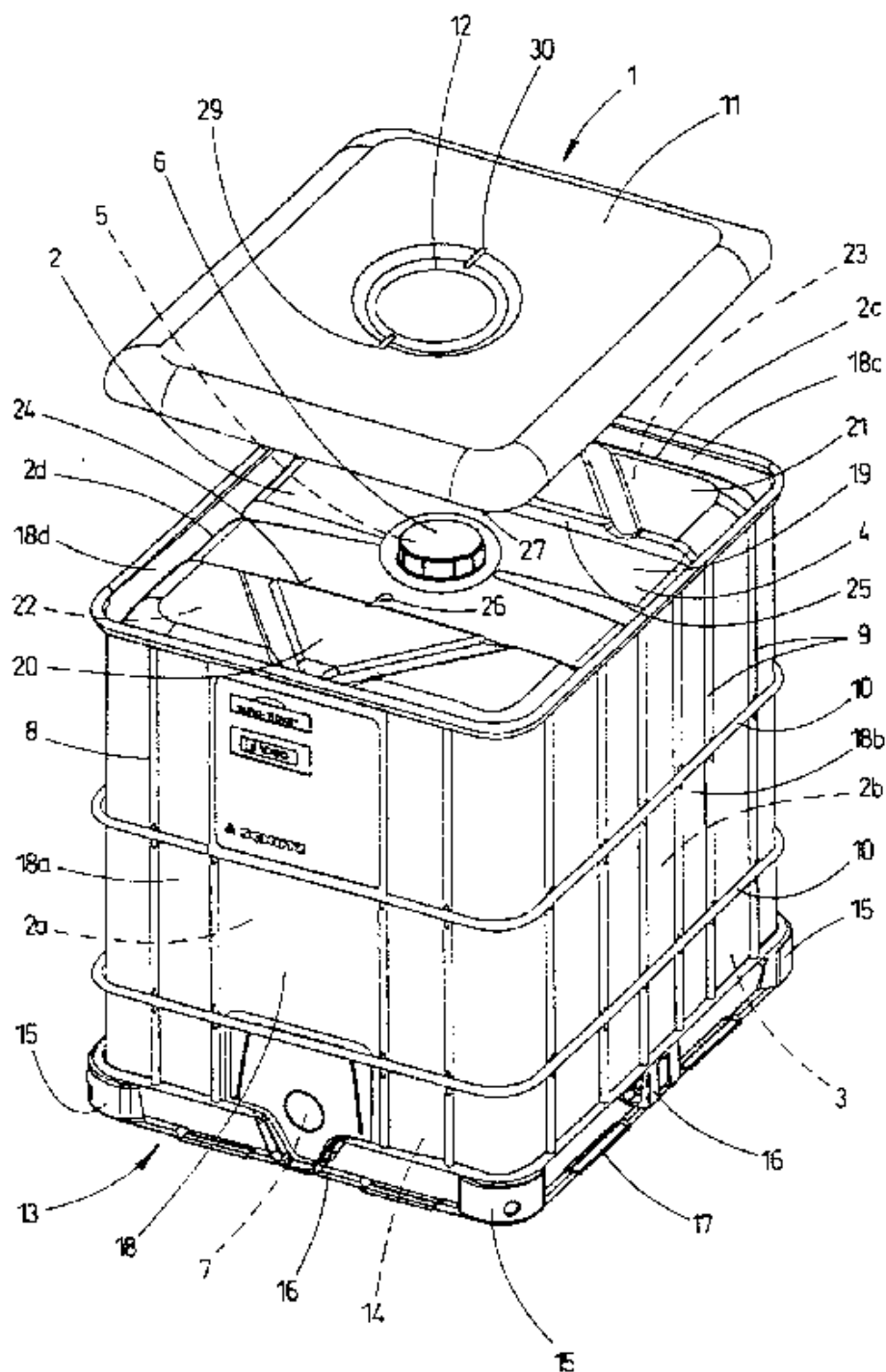
Title

(EP-881161)

Transport and storage container for liquids

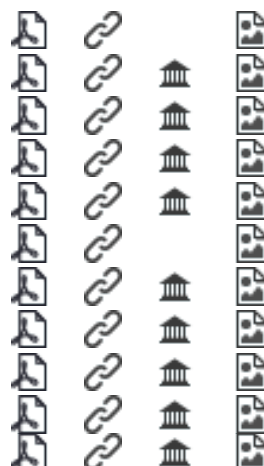
Images

Fig. 1



Publication data including kind & date

NO982375	D0	1998-05-26	NO9802375
NO982375	L	1998-11-30	NO-982375
EP0881161	A1	1998-12-02	EP-881161
AU6804798	A	1998-12-03	AU9868047
DE19722194	A1	1998-12-03	DE19722194
PL326481	A1	1998-12-07	PL98326481
JP10329836	A	1998-12-15	JP10329836
CN1204613	A	1999-01-13	CN1204613
DE19722194	C2	1999-03-18	DE19722194
BR9801701	A	1999-09-14	BR9801701



US5979685	A	1999-11-09	US5979685				
AR008343	A1	1999-12-29	AR---8343				
AU722967	B2	2000-08-17	AU-722967				
CN1077075	C	2002-01-02	CN1077075C				
HK1016948	A1	2002-07-26	HK1016948				
EP0881161	B1	2002-08-14	EP-881161				
DE59805155	D1	2002-09-19	DE59805155				
DK0881161	T3	2002-12-09	DK-881161T				
ES2178075	T3	2002-12-16	ES2178075				
RU2197418	C2	2003-01-27	RU2197418				
MY117403	A	2004-06-30	MY-117403				
JP3617769	B2	2004-11-19	JP3617769				
BRPI9801701	A1	2005-12-13	BR199801701				
IN1110/CHE/1998	A	2006-06-09	IN1998CH01110				
IN210056	B	2007-12-14	IN-210056				

Abstract

(EP-881161)

The inner container (2) has four sides (2a-2d) and a top (4) and bottom (3) base. the top has a closeable filler-socket (5). The lower part of a side wall has an outlet pipe (7) with discharge-cock. An outer casing (8) consists of vertical and horizontal metal latticed bars (9,10) and has a removable metal or plastics protective lid (11) with central access opening (12) to the inner container's filler socket closeable by a screw cap. The top of the inner container has fixture eyelets (26,27) fitting through slits (29,30) in the protective lid thereby fixed to the outer casing of the transporter container (1).

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

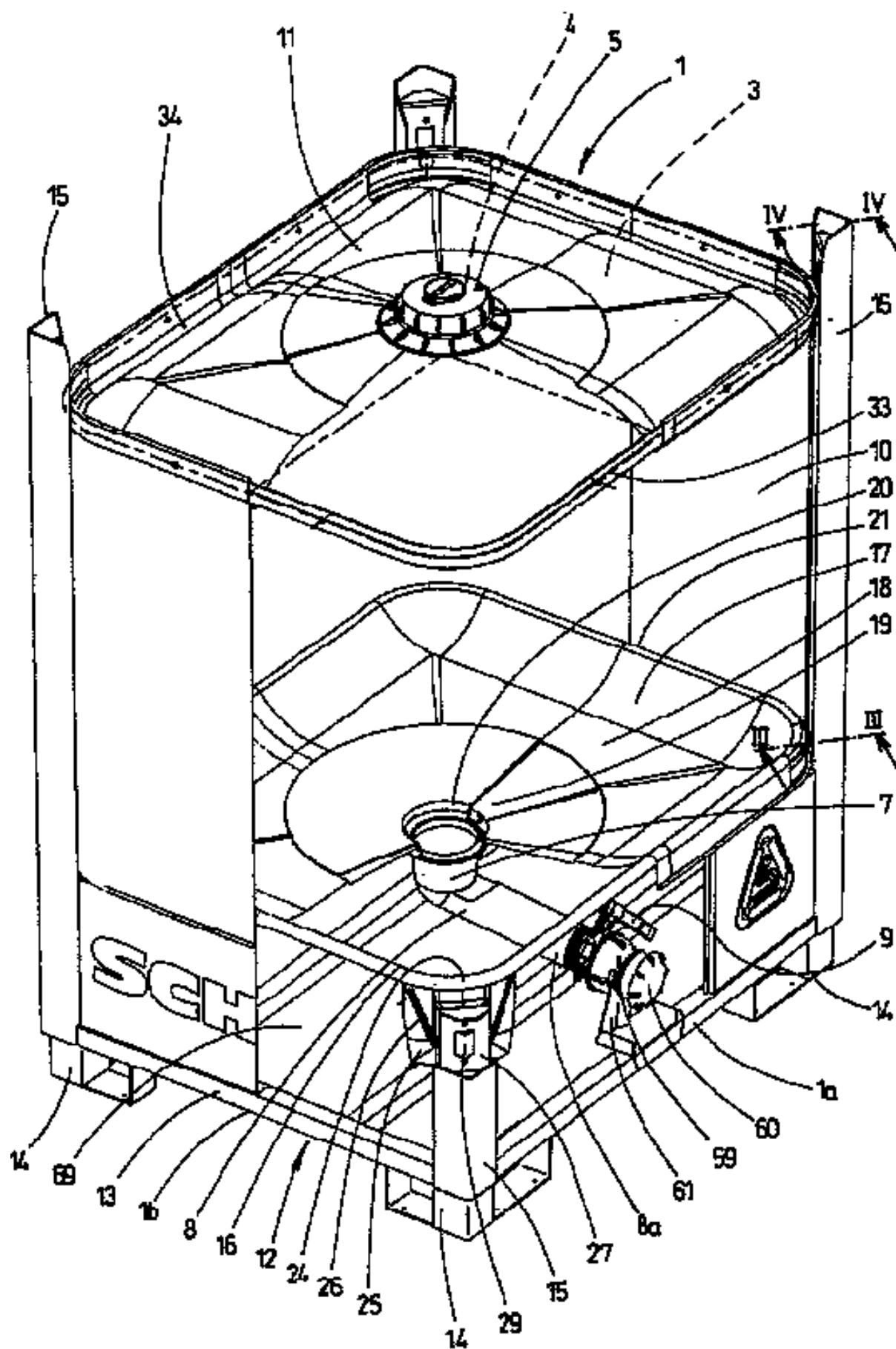
Family 13/58 - FAMPAT - ©Questel

Title

(DE19802307)

Transport and storage tank for liquid

Images



Publication data including kind & date

DE29800415	U1	1998-04-09	DE29800415
DE19802307	A1	1999-07-15	DE19802307
DE19802307	C2	2000-02-10	DE19802307



Abstract

CO6620013	A1	2013-02-15	CO6620013A1				
ZA201105321	B	2013-03-27	ZA201105321				
ES2401869	T3	2013-04-25	ES2401869				
US8567626	B2	2013-10-29	US8567626				
JP5400106	B2	2013-11-01	JP5400106				
KR101324998	B1	2013-11-04	KR101324998				
RU2505717	C2	2014-01-27	RU2505717				
CN102442460	B	2014-12-10	CN102442460B				
AU2011203540	B2	2015-08-06	AU2011203540				
MY160592	A	2017-03-15	MY-160592				

Abstract

(EP2418391)

The fastening device has an compression flattening structure (25) that includes an attachment portion provided with a mounting hole (26) in which support structure is fastened by a fastening bolt. An inclined force application plane is formed between a bolt head and mounting portion at preset angle with respect to mounting plane. A bearing surface (38) for bolt head is formed in inclined force application plane. An annular web (29) is extended from hole face (28) of mounting hole in direction of fastening axis (21). Independent claims are included for the following: (1) manufacturing method of fastening device; and (2) transport and storage container.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

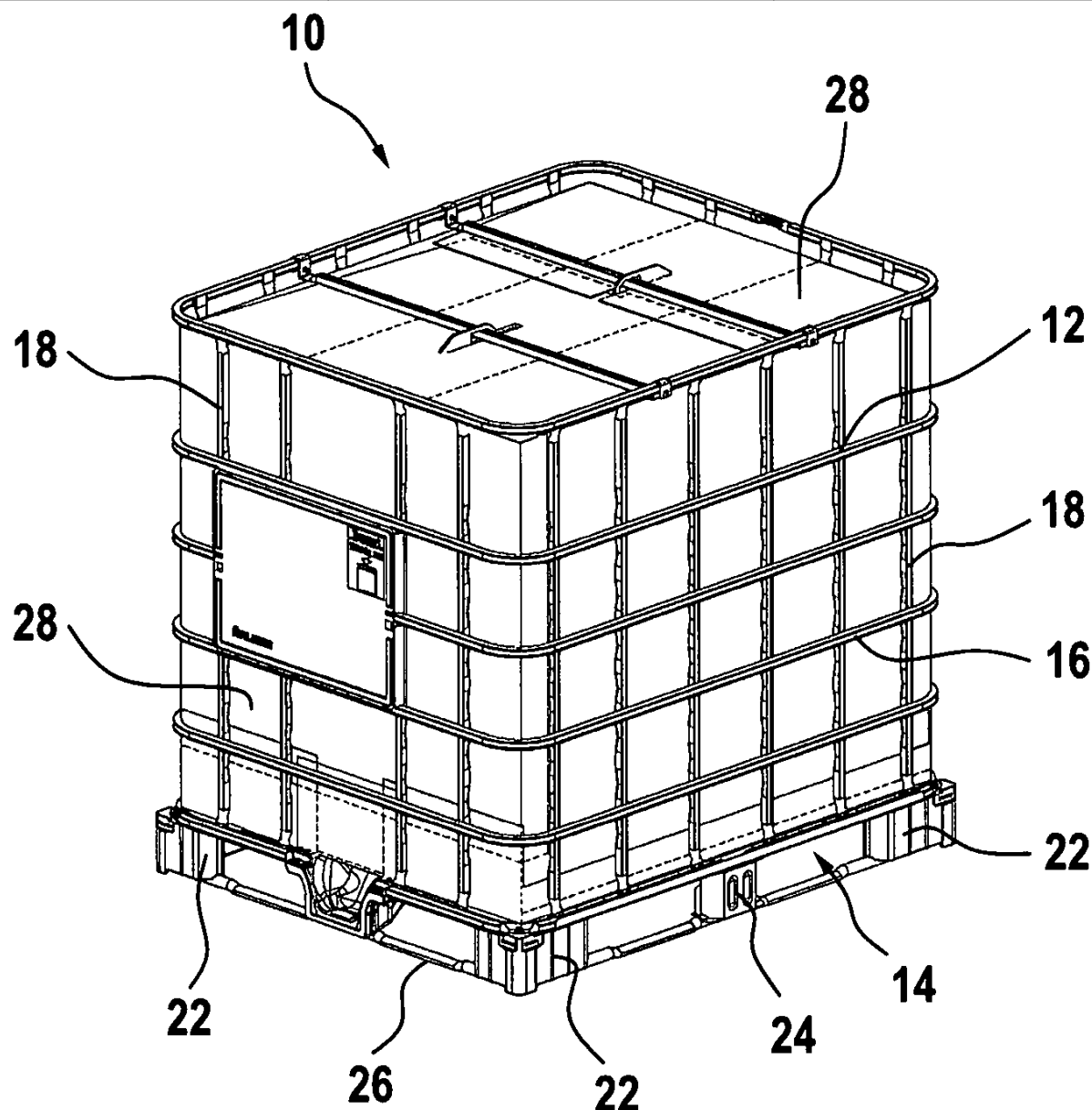
Family 15/58 - FAMPAT - ©Questel

Title

(DE102016000072)

Pallet container

Images

**Publication data including kind & date**

DE102016000072	A1	2017-07-13	DE102016000072
DE102016000072	B4	2018-11-29	DE102016000072

**Abstract**

(DE102016000072)

Pallet container (10) for storage and transport of contents with a thin-walled rigid inner container of thermoplastic material, with a plastic inner container jacket tightly hollow space frame (12) consists of welded horizontal and vertical tubular elements (16, 18) and a bottom pallet (14), on which the plastic inner container rests and with which the tubular lattice frame (12) is fixedly connected, wherein the base pallet (14) in Composite construction with upper support (20) plate of steel plate, directly below the steel sheet support (20) plate in parallel and diagonal upper steel pipes (32, 34), with plastic feet (22) means legs (24, 30) and with a below the corner - and center legs (22, 24, 30) surrounding ground drill string (26) of steel pipe construction, in, at least one lateral midfoot (24) from two separate sheet metal parts, namely an outer middle part (38) and an inner middle part (40), stamping - and bending method so specially shaped are, engage in the installed end state between the upper steel tubes (32, 34) and the rotating base drill string (26) are fastened, wherein both center base parts (38, 40) in a bush fitting interlocking manner.

Inventors

WEYRAUCH DETLEV

WAHMES LUKAS

Latest standardized assignees - inventors removed

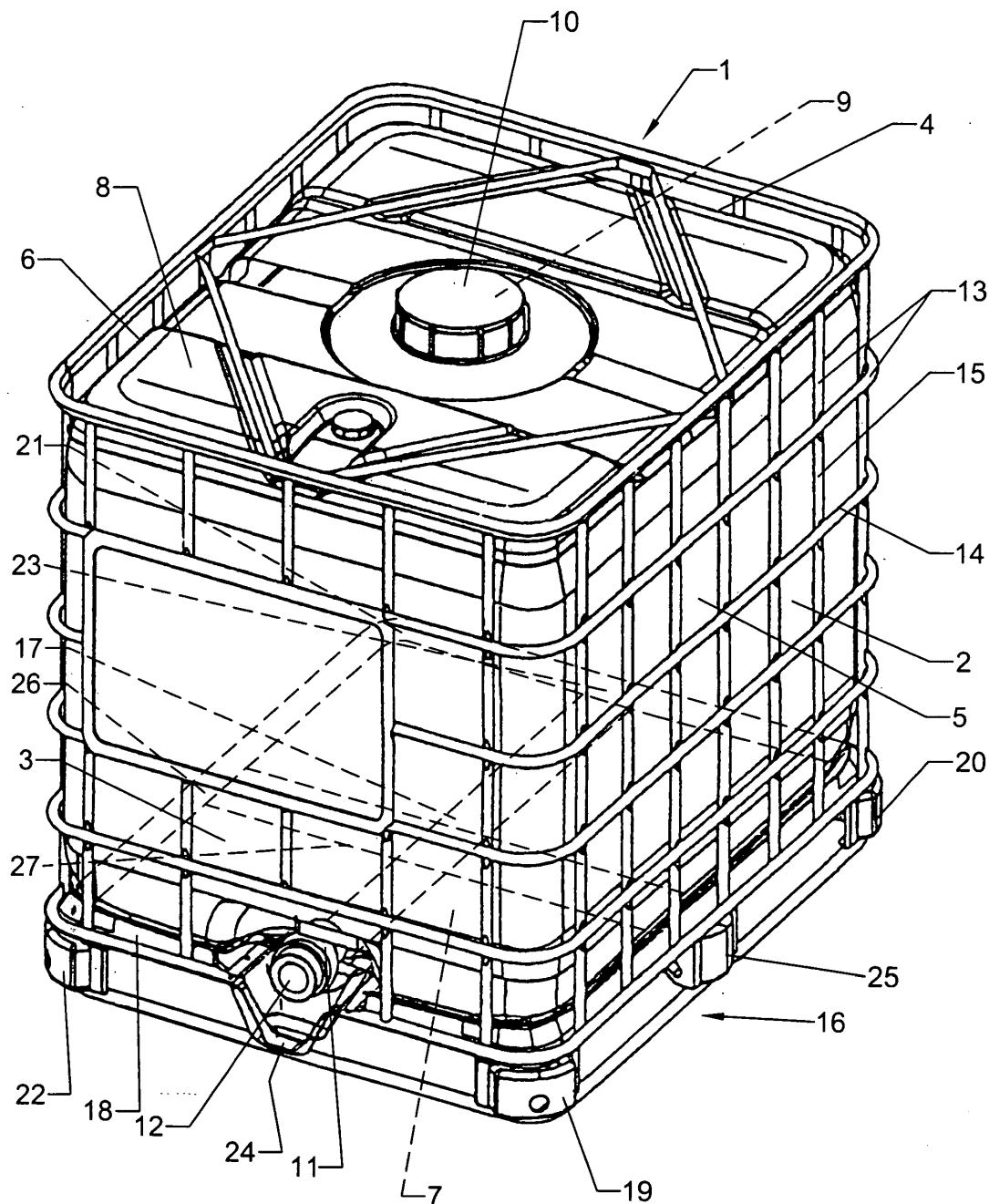
MAUSER WERKE

Family 16/58 - FAMPAT - ©Questel

Title

(EP1760007)

Transport and storage container made of plastic

Images**Publication data including kind & date**

NO20063802	L	2006-07-10	NO20063802
BRPI0604485	A1	2007-01-02	BR200604485
MXPA06009980	A	2007-03-01	MX2006PA009980
CN1923637	A	2007-03-07	CN1923637
EP1760007	A1	2007-03-07	EP1760007
JP2007062848	A	2007-03-15	JP2007062848
AU2006204627	A1	2007-03-15	AU2006204627



DE102006037944	A1	2007-03-15	DE102006037944				
BRPI0604485	A	2007-04-27	BR200604485				
US20070199937	A1	2007-08-30	US20070199937				
AR056479	A1	2007-10-10	AR--56479				
IN1579/CHE/2006	A	2007-12-07	IN2006CH01579				
ZA200606935	B	2007-12-27	ZA200606935				
RU2006131373	A	2008-03-10	RU2006131373				
BRPI0604485	A2	2010-08-31	BR200604485				

Abstract

(EP1760007)

Transport and storage container has a multi-layered structure which is manufactured by extension blow molding of the plastic interior container (2) with an outer fireproof layer, which contains a fire protection means to protect against effect of heat.

Inventors

SCHUTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

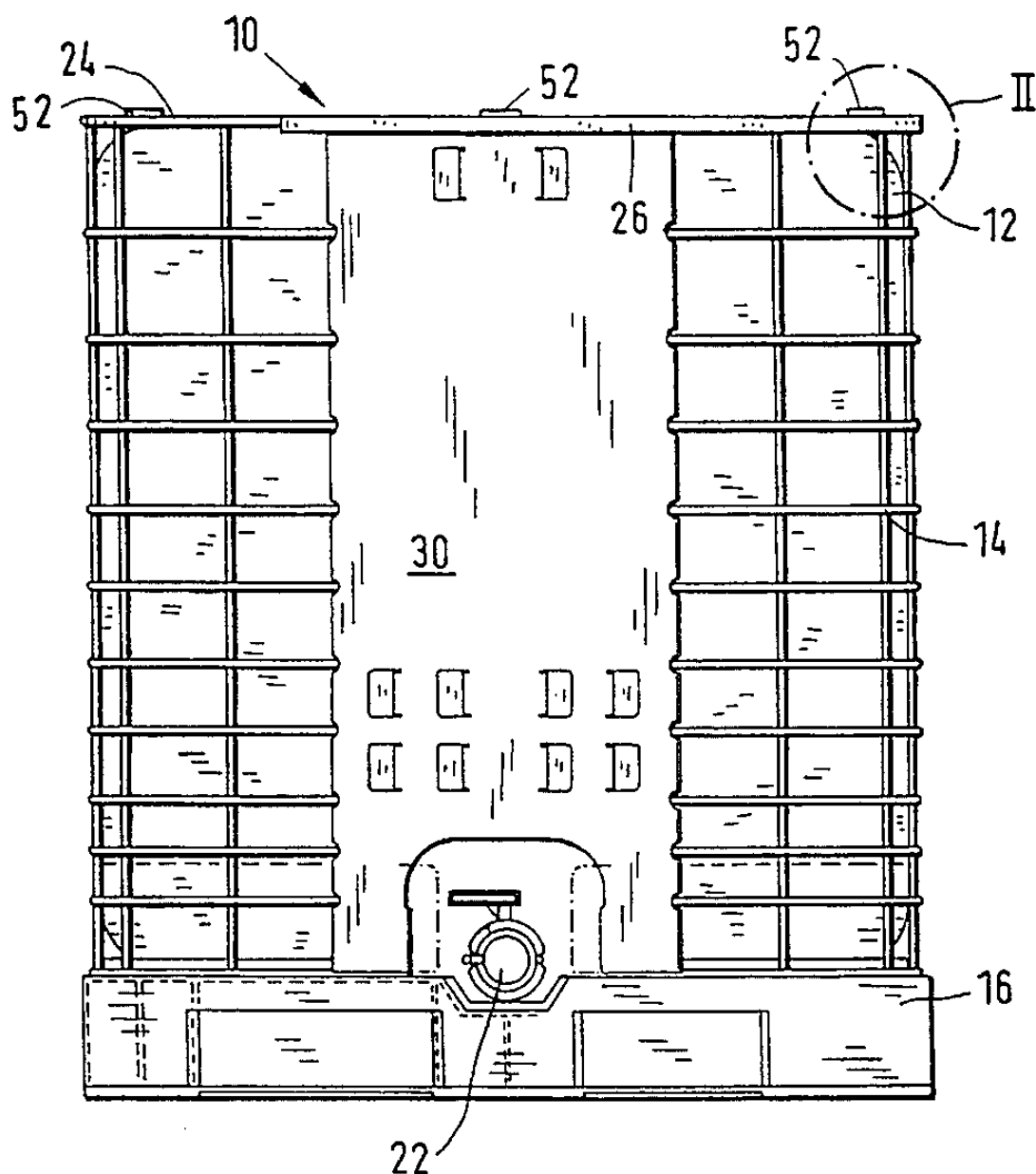
Family 17/58 - FAMPAT - ©Questel

Title

(EP-694016)

Pallet container

Images



Publication data including kind & date

DE9306177	U1	1993-08-05	DE9306177
DE9410990	U1	1994-09-08	DE9410990
DE4328009	A1	1994-10-27	DE4328009
WO9425367	A1	1994-11-10	WO9425367
AU6646794	A	1994-11-21	AU9466467
CN1096488	A	1994-12-21	CN1096488
EP0694016	A1	1996-01-31	EP-694016
US5501334	A	1996-03-26	US5501334
JPH08509193	A	1996-10-01	JP08509193
EP0694016	B1	1997-03-19	EP-694016
AT150412	T	1997-04-15	ATE150412
DE59402155	D1	1997-04-24	DE59402155
ES2101534	T3	1997-07-01	ES2101534
DK0694016	T3	1997-10-13	DK-694016T
DE4328009	C2	1998-11-05	DE4328009
JP3578763	B2	2004-07-23	JP3578763



Abstract

(EP-694016)

The invention relates to a pallet container (10) for the transport and storage of liquids with a thin-walled inner container (12) made of thermoplastic material, a wire grid or tubular rod supporting casing (14) closely surrounding the inner container (12) and a base pallet (16) movable by a fork-lift truck to which the supporting casing (14) is firmly secured. The inner container (12) has a filler aperture (20) in the top (18) and a discharge valve (22) in the bottom. To improve stackability and increase stability, there is a cover plate (26) covering the top (18) of the inner container (12) from above which has a suitable central aperture (28) giving access to the upper filler aperture (20) and which is firmly secured peripherally to the upper edge of the supporting casing (14). The upper closure edge of the supporting casing (14) is formed by the uppermost peripheral grid rod (24) or tubular rod, which is covered from above by the cover plate (26) over a partial section in the horizontal or radial direction and positively covered by a mating 90 DEG downwardly directed flange edge (34) of the cover plate (26) over a partial section in the vertical or axial direction from outside.

Inventors

PRZYTULLA DIETMAR

BURDG DORF MAERTEN

Latest standardized assignees - inventors removed

MAUSER WERKE

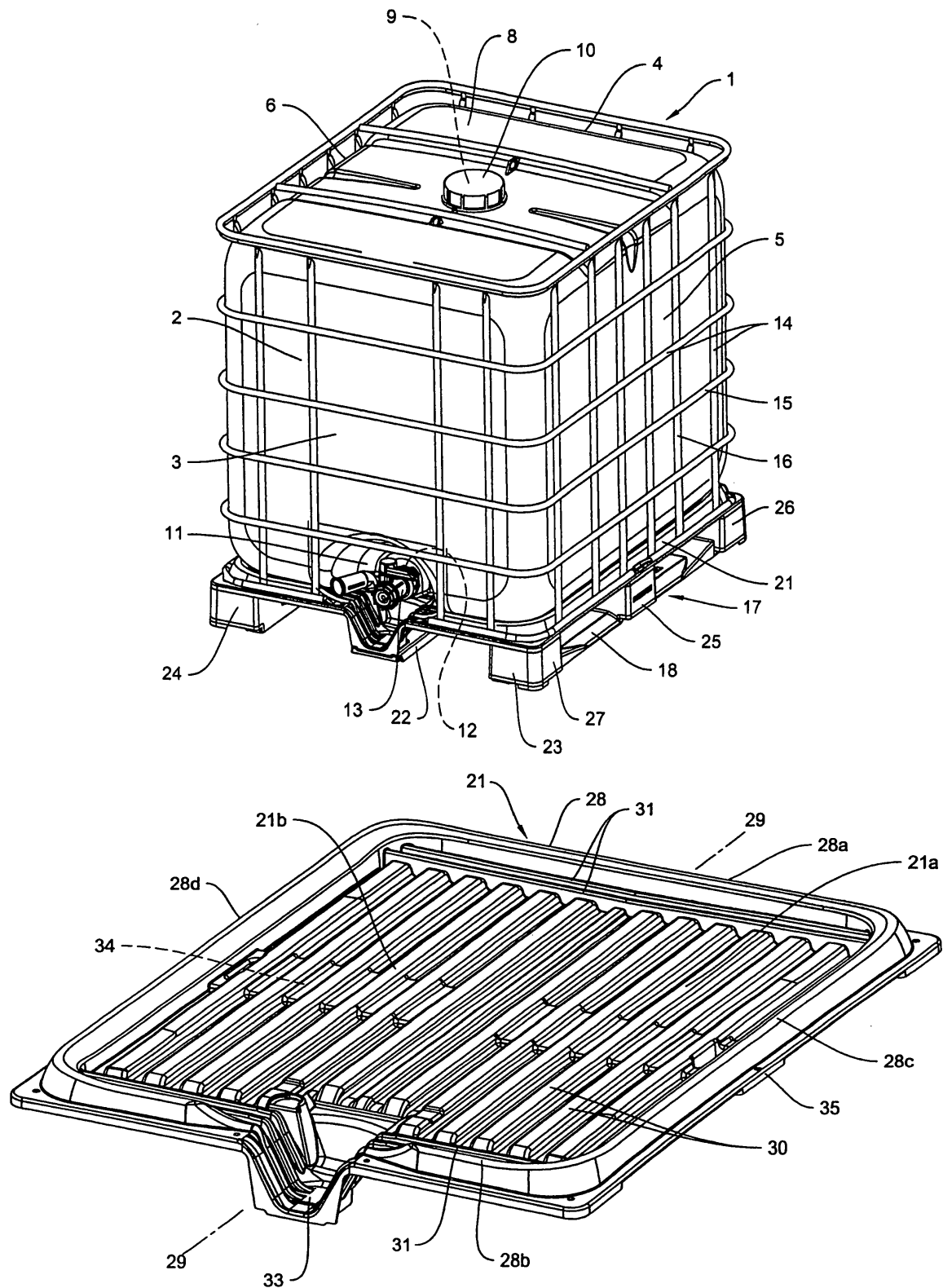
Family 18/58 - FAMPAT - ©Questel

Title

(EP2090520)

Transport and storage container for fluids

Images


Publication data including kind & date

CN101508378	A	2009-08-19	CN101508378
EP2090520	A1	2009-08-19	EP2090520
JP2009190790	A	2009-08-27	JP2009190790
DE102008009327	A1	2009-08-27	DE102008009327
MX2009001651	A	2009-08-31	MX2009001651
AU2009200572	A1	2009-09-03	AU2009200572
US20090223848	A1	2009-09-10	US20090223848
IN0299/CHE/2009	A	2009-09-11	IN2009CH00299
AR070378	A1	2010-03-31	AR--70378



RU2009105121	A	2010-08-20	RU2009105121				
RU2401781	C1	2010-10-20	RU2401781				
ZA200900757	B	2010-10-27	ZA200900757				
US7913850	B2	2011-03-29	US7913850				
EP2090520	B1	2011-04-13	EP2090520				
AT505406	T	2011-04-15	ATE505406				
AU2009200572	B2	2011-05-12	AU2009200572				
DE502009000507	D1	2011-05-26	DE502009000507				
BRPI0903458	A2	2011-07-05	BR200903458				
ES2365083	T3	2011-09-21	ES2365083				
JP4990307	B2	2012-05-11	JP4990307				
CN101508378	B	2012-09-12	CN101508378B				
MY148156	A	2013-03-15	MY-148156				
IN272956	B	2016-05-06	IN-272956				
BRPI0903458	B1	2018-11-21	BR200903458				

Abstract

(EP2090520)

The container (1) has an inner container (2) made of plastic, and an outer casing (14) made of metal grating or sheet metal. A base frame (17) is made of plastic and formed with a runner pallet (18) or a frame pallet. The base frame has a base (21) supported on support legs e.g. central support legs (25), of a central runner (22) and two outer runners (23, 24). The base is made of plastic and formed as an injection molded part. The base has a longitudinal corrugation and a transverse corrugation that are provided for reinforcing the base and as a support for the inner container.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 19/58 - FAMPAT - ©Questel

Title

(EP1754670)

Transport and storage container for liquids

Images

AU2006203571	B2	2008-07-17	AU2006203571
AU2006203571	C1	2008-12-11	AU2006203571
CN100448760	C	2009-01-07	CN100448760C
IN231311	B	2009-03-27	IN-231311
RU2352506	C2	2009-04-20	RU2352506
JP4423279	B2	2009-12-11	JP4423279
EP1754670	B1	2011-10-19	EP1754670
AT529351	T	2011-11-15	ATE529351
ES2375634	T3	2012-03-02	ES2375634
MY146731	A	2012-09-14	MY-146731
US8490826	B2	2013-07-23	US8490826
NO335024	B1	2014-08-25	NO-335024
BRPI0603377	A2	2017-09-12	BRPI0603377



Abstract

(EP1754670)

The device (1) has a palette-like sub-frame (20) for a replaceable inner plastic container (2) and a grid envelope (13) with horizontal and vertical metal grid bars (14,15). The ends of the vertical bars are welded to horizontal profiles. The flat pressed upper ends of the vertical grid bars are attached in a force- and shape-locking manner to a peripheral bridge formed on the upper edge of the grid envelope.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

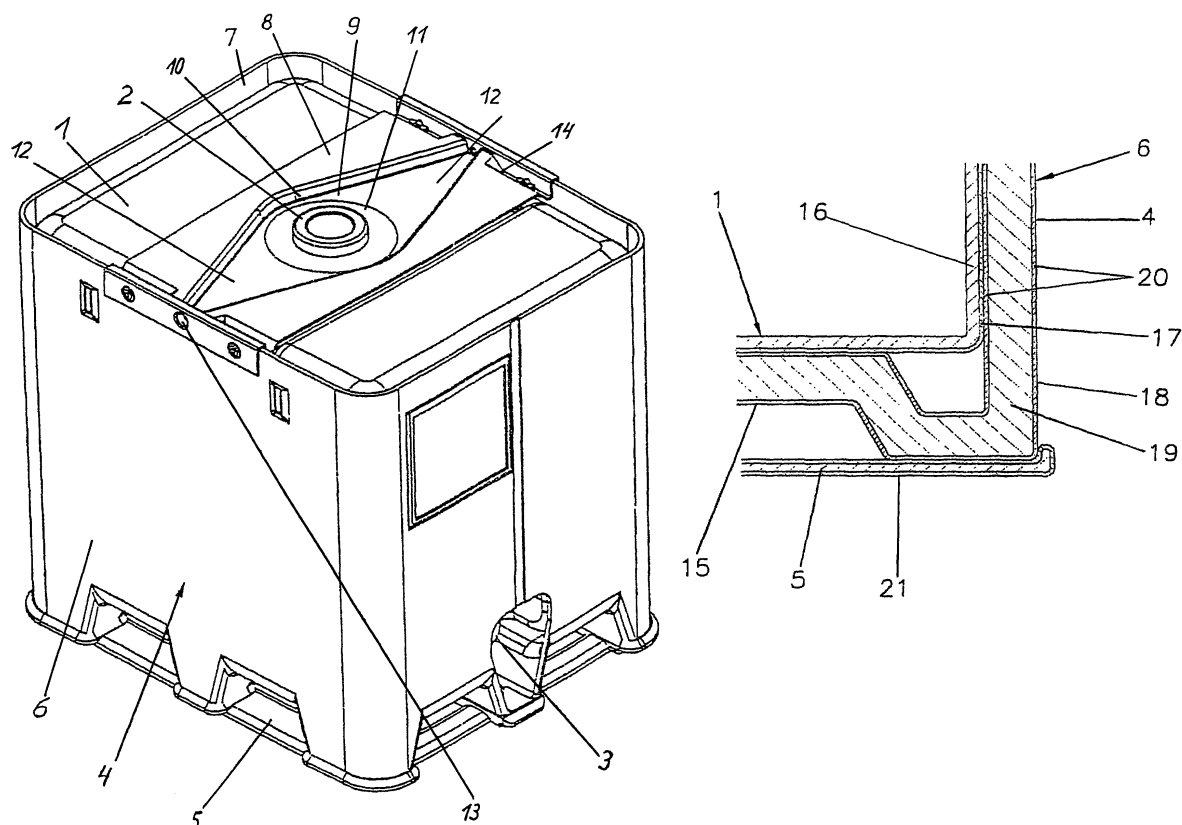
Family 20/58 - FAMPAT - ©Questel

Title

(EP1387799)

Device for transporting and/or storing powder or liquid products

Images



Publication data including kind & date

DE20107962	U1	2002-06-20	DE20107962				
WO02092460	A1	2002-11-21	WO200292460				
EP1387799	A1	2004-02-11	EP1387799				
US20040195129	A1	2004-10-07	US20040195129				
US7575118	B2	2009-08-18	US7575118				
EP1387799	B1	2012-05-09	EP1387799				
AT556955	T	2012-05-15	ATE556955				

Abstract

(EP1387799)

The present invention relates to a device for transporting and/or storing of a powdery or liquid medium, comprising an outer container, which is predominantly stable with respect to its shape, open on the topside and is formed pallet-like in its bottom, for an inner container accommodating the medium, displaying an upper bottom with an opening for filling and/or discharging located therein, said inner container being adjacent to the outer container's inner surface and being, if necessary, secured by a covering element that may be attached to the outer container, wherein at least the inner container has a wall made of a plastic material, characterized in that the parts of the device made of plastic (1, 4, 5) have at least one electrically conductive layer (17, 20, 21) on their outer surfaces and are mutually electrically connected.

Inventors

RICHTER GUENTER

HAHN HANS-ULRICH

Latest standardized assignees - inventors removed

HONEYWELL SPECIALTY CHEMICALS

Family 21/58 - FAMPAT - ©Questel

Title

(EP-498984)

Composite shipping container with separable top and bottom structures.

Images

(EP-498984)

A shipping container (10) having an inner tank (12), a housing (16) and a pallet (14). The tank (12) is made of poly material and is positioned and supported within the housing (16) on the pallet (14). The housing (16) includes upright side walls (32) which maintain the tank side walls in an upright position and further includes a top structure (28) and bottom structure (30). The bottom structure (30) is attached to the pallet (14) and assists the pallet in supporting the weight of the tank (12). Both the top and bottom structures (28,30) incorporate features which allow them to self engage the upper and lower periphery ends of the side walls (32) upon relative telescoping movement between the top and bottom structures (28,30) and the side walls (32). This engagement is releasable and generally allows the housing to be quickly and securely snapped together.

<IMAGE>

Inventors

NICHOLS DWIGHT ELLIS

Latest standardized assignees - inventors removed

HOOVER MATERIALS HANDLING

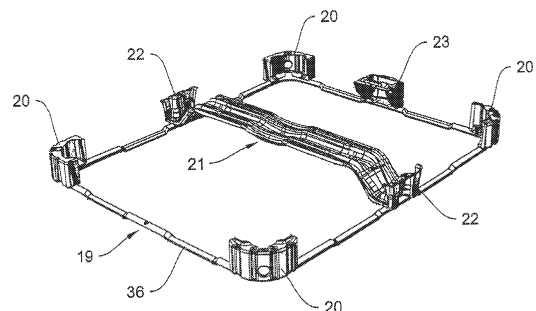
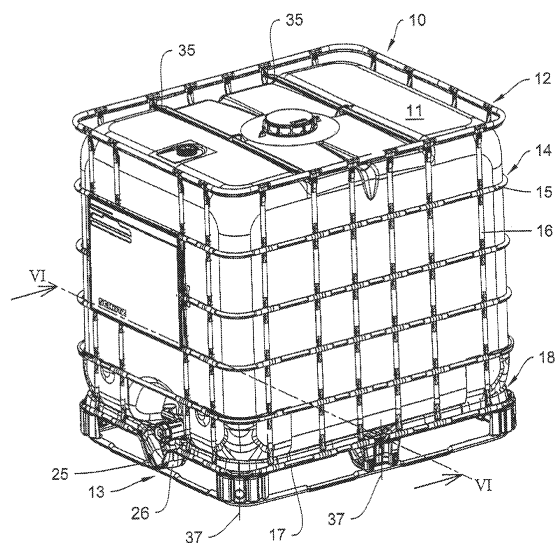
HOOVER UNIVERSAL

Family 22/58 - FAMPAT - ©Questel

Title

(EP2426067)

Transport and storage container for fluids

Images**Publication data including kind & date**

EP2426067	A1	2012-03-07	EP2426067
US20120055830	A1	2012-03-08	US20120055830
DE102010040270	A1	2012-03-08	DE102010040270
KR20120024496	A	2012-03-14	KR20120024496
CO6400021	A1	2012-03-15	CO6400021A1
JP2012056636	A	2012-03-22	JP2012056636
MX2011009112	A	2012-03-22	MX2011009112
AU2011205158	A1	2012-03-22	AU2011205158
CN102442458	A	2012-05-09	CN102442458
BRPI1104599	A1	2012-08-07	BR201104599
EP2426067	B1	2012-12-05	EP2426067
IN2316/MUM/2011	A	2012-12-21	IN2011MU02316
AR082831			



	A1	2013-01-09	AR--82831				
BRPI1104599	A2	2013-01-15	BR201104599				
RU2011136251	A	2013-03-10	RU2011136251				
ES2400873	T3	2013-04-15	ES2400873				
ZA201106172	B	2013-04-24	ZA201106172				
US8640869	B2	2014-02-04	US8640869				
AU2011205158	B2	2014-02-06	AU2011205158				
RU2506210	C2	2014-02-10	RU2506210				
JP5486566	B2	2014-02-28	JP5486566				
KR101381697	B1	2014-04-04	KR101381697				
SA3443	B1	2014-06-08	SA---3443				
CN102442458	B	2014-12-24	CN102442458B				
MY160469	A	2017-03-15	MY-160469				
IN311133	B	2019-04-11	IN-311133				

Abstract

(EP2426067)

The container (10) has a plastic inner container unit (11) which has an outer metal sheath (14) and a pallet-like base (13) for handling by lift truck. The base has a bottom portion (18) for supporting the inner container unit and a base frame with supporting feet. The bottom portion has inner container unit support surface, bottom wall extended from the support surface and supporting edge between a lower edge (17) of outer sheath and connecting bar. The lower edge is fitted over the supporting edge to the base frame. The wall depressions are formed in the bottom wall.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 23/58 - FAMPAT - ©Questel

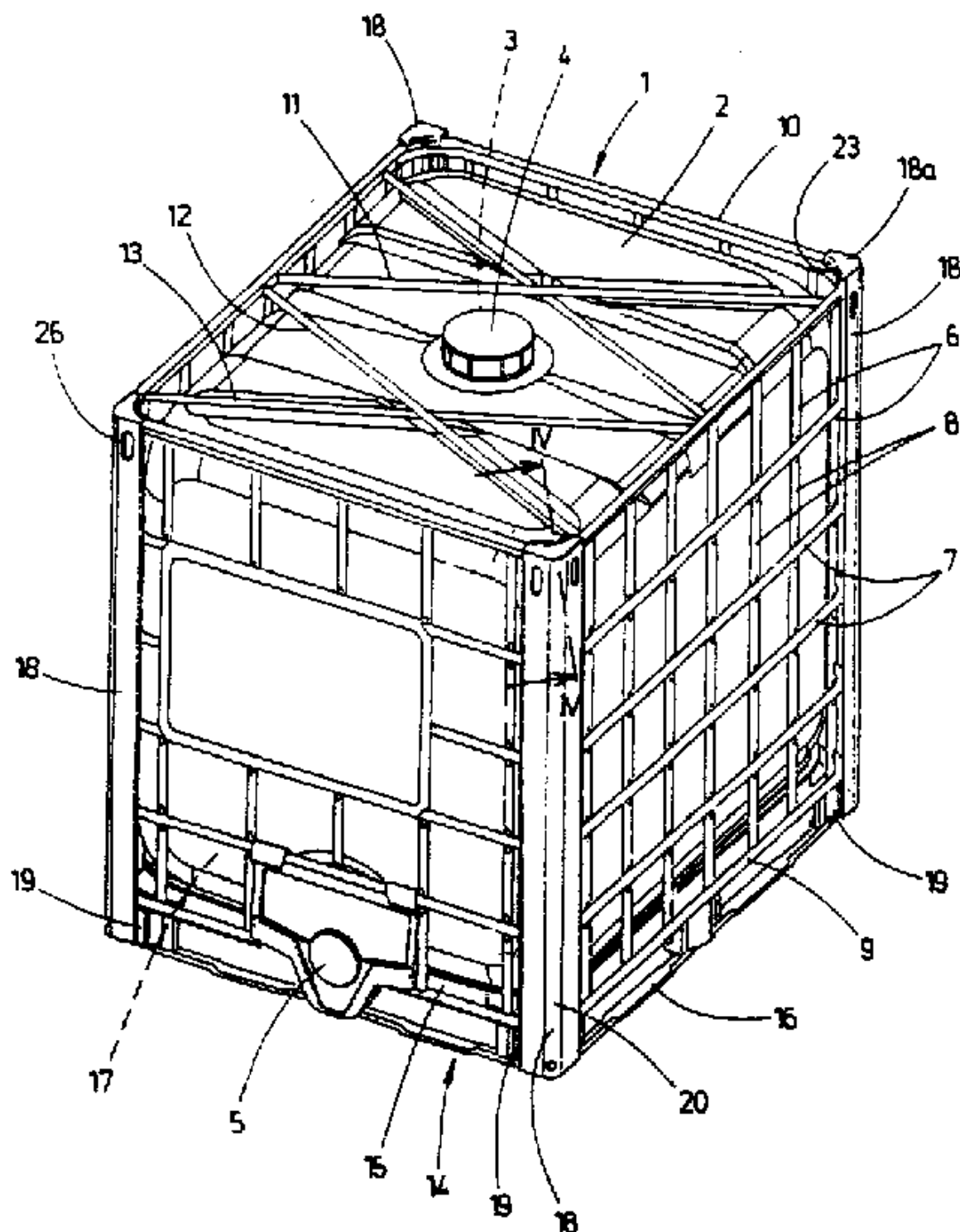
Title

(DE4414378)

Container for storing and transporting liquids

Images

Fig. 1

**Publication data including kind & date**

DE4414378	A1	1995-10-26	DE4414378
DE4414378	C2	1999-03-04	DE4414378

**Abstract**

(DE4414378)

The container has a plastics cube-shaped inner container with inlet and outlet, The container has metal or plastics corner supports (18) which are fixed to the latticed casing (6). The top parts of the corner supports have slots (26) for detachably fixing cables or chains for transporting and lifting them. The top ends (18a) of the corner supports are suspended from the top frame (10) of the latticed casing and the bottom ends (18b) are screwed to a corner foot (19) of the pallet (14). The

corner supports have an angled of rounded profile (20) matching the shape of the palette corner feet.

Latest standardized assignees - inventors removed

PROTECHNA

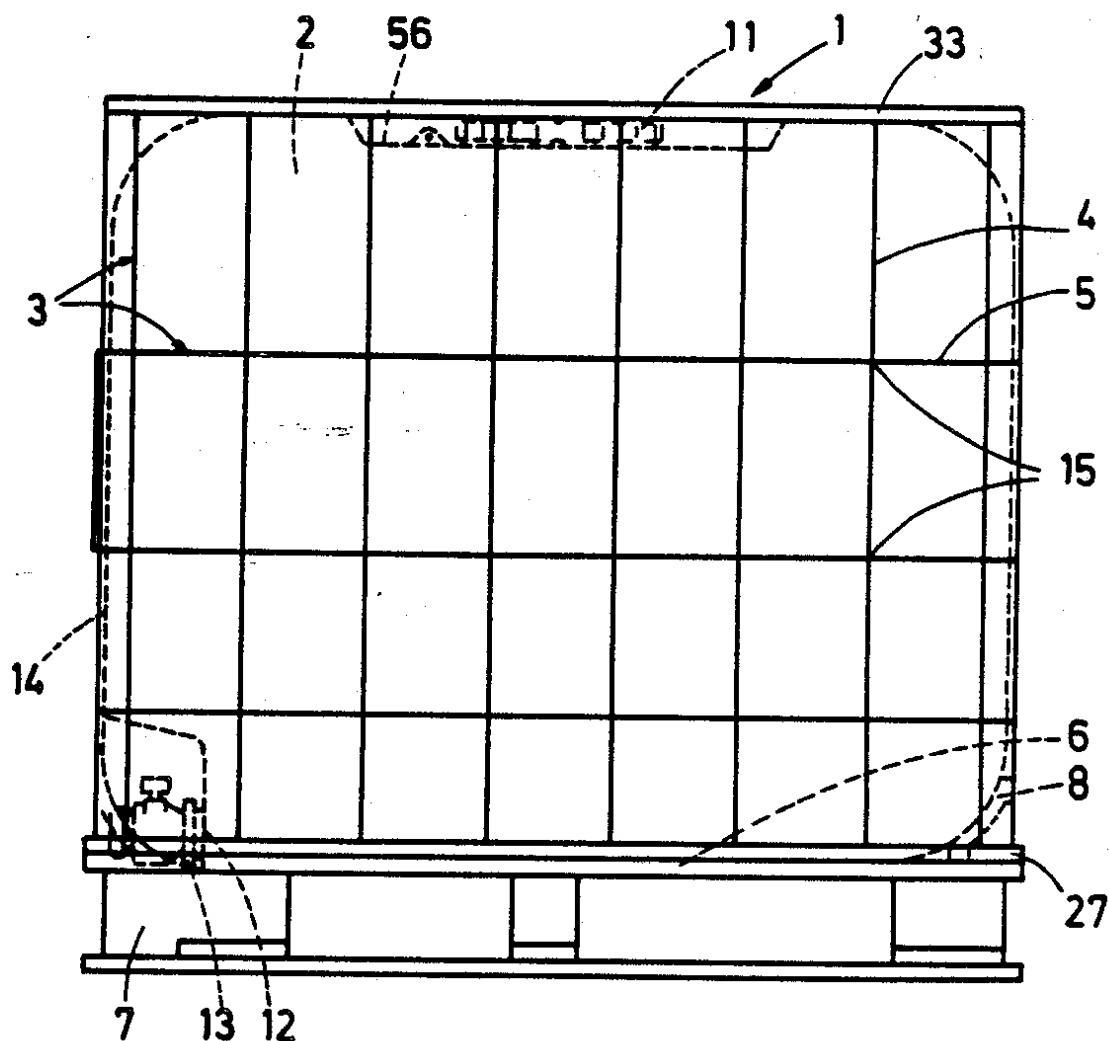
Family 24/58 - FAMPAT - ©Questel

Title

(EP-370307)

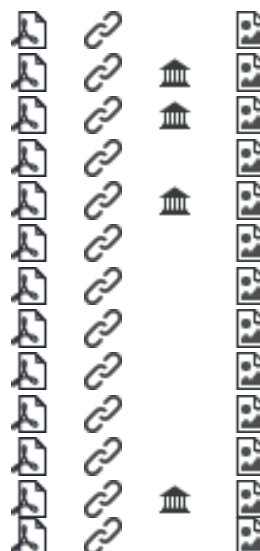
Palletised container

Images



Publication data including kind & date

HU896145	D0	1990-02-28	HU8906145
US4909387	A	1990-03-20	US4909387
EP0370307	A2	1990-05-30	EP-370307
CS658889	A2	1990-12-13	CS8906588
EP0370307	A3	1991-01-16	EP-370307
HUT55693	A	1991-06-28	HU-T55693
CS274644	B2	1991-09-15	CS-274644
YU220989	A	1992-05-28	YU8902209
SU1780528	A3	1992-12-07	SU1780528
RU1780528	C	1992-12-07	RU1780528
HU206855	B	1993-01-28	HU-206855
EP0370307	B1	1993-02-03	EP-370307



AT85286	T	1993-02-15	ATE085286
DE58903451	D1	1993-03-18	DE58903451
ES2037376	T3	1993-06-16	ES2037376
GR3007286	T3	1993-07-30	GR3007286
YU47551	B	1995-10-03	YU--47551

**Abstract**

(EP-370307)

The pallet container comprises a wooden pallet or a steel pipe pallet, on which is mounted an inner container of a synthetic resin with a jacket of vertical and horizontal lattice bars (4, 5) of steel pipe, these bars forming continuous inner and outer tangential planes; (20-20, 25-25). At the points of intersection (15), the lattice bars are drawn in to form trough-like indentations. This configuration has the result that, at each point of intersection (15), four contact points (22) disposed in one plane (21-21) are produced with an accumulation of material in each case corresponding to four times the wall thickness of the lattice bars. The lattice bars (4, 5) are joined together at the points of intersection (15) in the zone of the contact points (22) by electric resistance welding. The pallet container is usable as a safely operating multiple-trip container for liquid merchandise of all kinds.

(From US4909387 A)

Inventors

SCHUETZ, UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 25/58 - FAMPAT - ©Questel

Title

(DE4209781)

Container with grid pallet box and integrated pallet - has base insert comprising hollow plastics cushion with tray like part adjoining outlet valve and engaging down from pallet base into channel.

Images

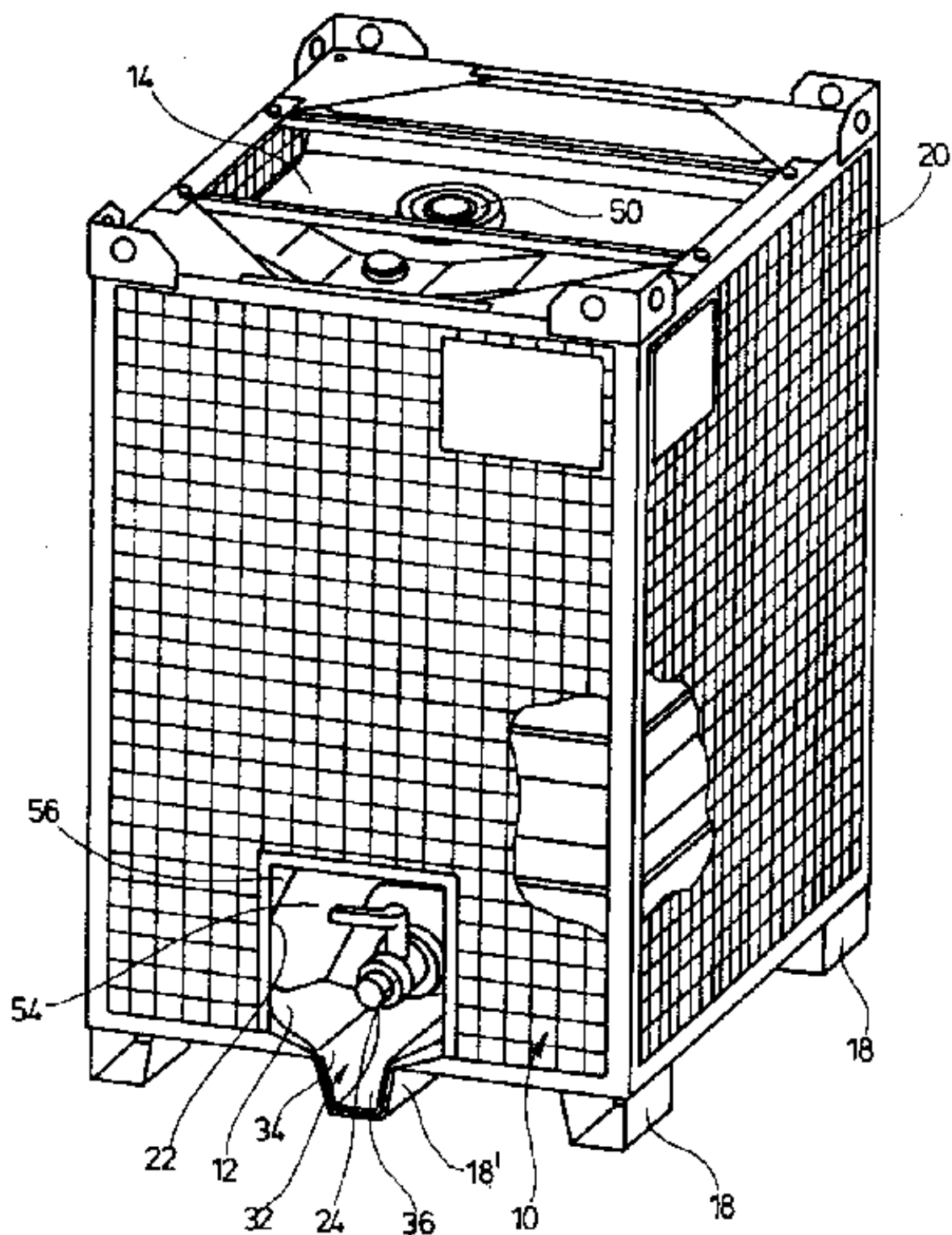


Fig. 1

Publication data including kind & date

DE4209781

A1 1993-09-30

DE4209781

DE4209781

C2 2000-07-13

DE4209781

**Abstract**

(DE4209781)

The hollow cushion is pref. a blow-moulded body and its tray-like cushion part (32) has at least in the area of its base (36) a hollow cavity communicating with the hollow space of the part of the cushion resting on the pallet base. The tray-like cushion part adjoins the side walls and base of the channel which defines the wall opening (22) at the bottom near the

outlet valve (24). The wall parts (34) of the cushion part adjoining the side walls of the channel are pref. double-walled but free of cavity. The base of the pallet box (10) can have grid bars which define the base plane. USE/ADVANTAGE - Increased protection against damage through knocks and shocks. The container is suitable for transporting dangerous chemicals such as acids used in the pharmaceutical industry.

Inventors

KURZ MANFRED

STEEB WOLFGANG

RAEDLER HELMUT

KUEHNEISEN KURT

FLINNER HANS-GEORG

Latest standardized assignees - inventors removed

ALTENKIRCHENER KUNSTSTOFF

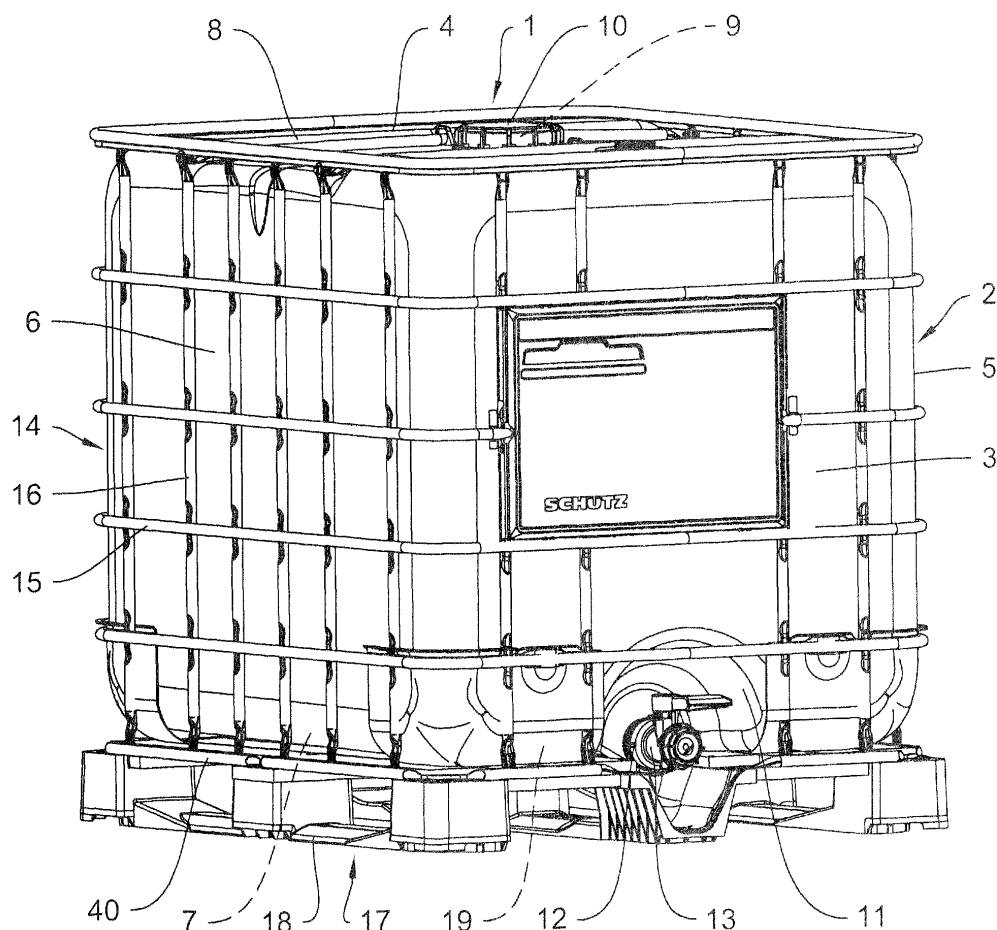
Family 26/58 - FAMPAT - ©Questel

Title

(EP2096043)

Transport and storage container for fluids

Images



Publication data including kind & date

[MX2009001650](#)

A 2009-08-31

MX2009001650

[CN101519150](#)

A 2009-09-02

CN101519150



EP2096043	A1	2009-09-02	EP2096043				
JP2009202945	A	2009-09-10	JP2009202945				
AU2009200793	A1	2009-09-10	AU2009200793				
DE102008011423	A1	2009-09-10	DE102008011423				
IN0399/CHE/2009	A	2009-09-11	IN2009CH00399				
US20090230017	A1	2009-09-17	US20090230017				
ZA200900759	B	2009-12-30	ZA200900759				
AR070529	A1	2010-04-14	AR--70529				
RU2401226	C1	2010-10-10	RU2401226				
EP2096043	B1	2011-04-13	EP2096043				
AT505412	T	2011-04-15	ATE505412				
DE502009000512	D1	2011-05-26	DE502009000512				
ES2364735	T3	2011-09-13	ES2364735				
CN101519150	B	2012-10-03	CN101519150B				
BRPI0925273	A1	2012-10-23	BR200925273				
MY147525	A	2012-12-31	MY-147525				
JP5284825	B2	2013-06-07	JP5284825				
US8631960	B2	2014-01-21	US8631960				
BRPI0925273	A2	2015-09-08	BR200925273				
IN274240	B	2016-07-22	IN-274240				
BRPI0925273	B1	2018-07-17	BR200925273				

Abstract

(EP2096043)

Transport and storage container for use as disposable or refillable container for fluid, has runner palette designed as composite palette, and exhibiting base constructed of wooden board, middle runner and plastic outer runners with stands. The container (1) has a plastic inner container (2) with a closeable filling piece (9) and a discharge piece for connection of a withdrawal fitting (13). An outer shell (14) is made of metal grid or sheet metal. A lower frame (17) is provided with a base for supporting of the inner container. A runner palette (18) of the lower frame is designed as a composite palette. The runner plate exhibits a flat base constructed of wooden board, a middle runner and two plastic outer runners with front, middle and rear supporting stands.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 27/58 - FAMPAT - ©Questel

Title

(EP-542110)

Pallet-mounted container

Images

	A1	1993-09-20	PL92296540				
DE4237889	C2	1994-01-20	DE4237889				
JP06048443	A	1994-02-22	JP06048443				
HUT65862	A	1994-07-28	HU-T65862				
AU653450	B2	1994-09-29	AU-653450				
TW234105	B	1994-11-11	TW-234105				
CN1026678	C	1994-11-23	CN1026678C				
IL103689	B	1995-03-30	IL-103689				
YU97692	A	1995-10-03	YU9200976				
CZ280215	B6	1995-12-13	CZ-280215				
EP0542110	B1	1996-01-31	EP-542110				
AT133630	T	1996-02-15	ATE133630				
DE59205231	D1	1996-03-14	DE59205231				
ES2082330	T3	1996-03-16	ES2082330				
HU212317	B	1996-05-28	HU-212317				
GR3019139	T3	1996-05-31	GR3019139				
PL169052	B1	1996-05-31	PL-169052				
DK0542110	T3	1996-06-17	DK-542110T				
ID851	B	1996-08-02	ID----851				
CA2082888	C	1996-08-20	CA2082888				
RU2069159	C1	1996-11-20	RU2069159				
KR970000171	B1	1997-01-06	KR970000171				
BRPI9204409	B1	1997-09-30	BR9204409				
JP2678244	B2	1997-11-17	JP2678244				
YU48475	B	1998-08-14	YU--48475				
NO304365	B1	1998-12-07	NO-304365				

Abstract

(EP-542110)

The pallet-mounted container (1) for transporting and for storing liquids has a collapsible outer shell (2), which is releasably attached to a pallet (12) and consists of a metal lattice work, and a support insert (5) which rests against the outer shell (2) and can be folded together for the thin-walled plastic inner container (6). The plastic inner container (6) consists of a rigid, dimensionally stable lower part and a flexible upper part which can be inserted in the lower part for stacking and transporting purposes. For the purposes of empty transportation, the pallet-mounted container (1) can be dismantled easily and quickly and fitted together to form a space-saving transport unit. Without the plastic inner container (6) the pallet-mounted container (1) can be used for transporting and for storing unit loads and semi-finished products of various types.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

SCHUETZ WERKE

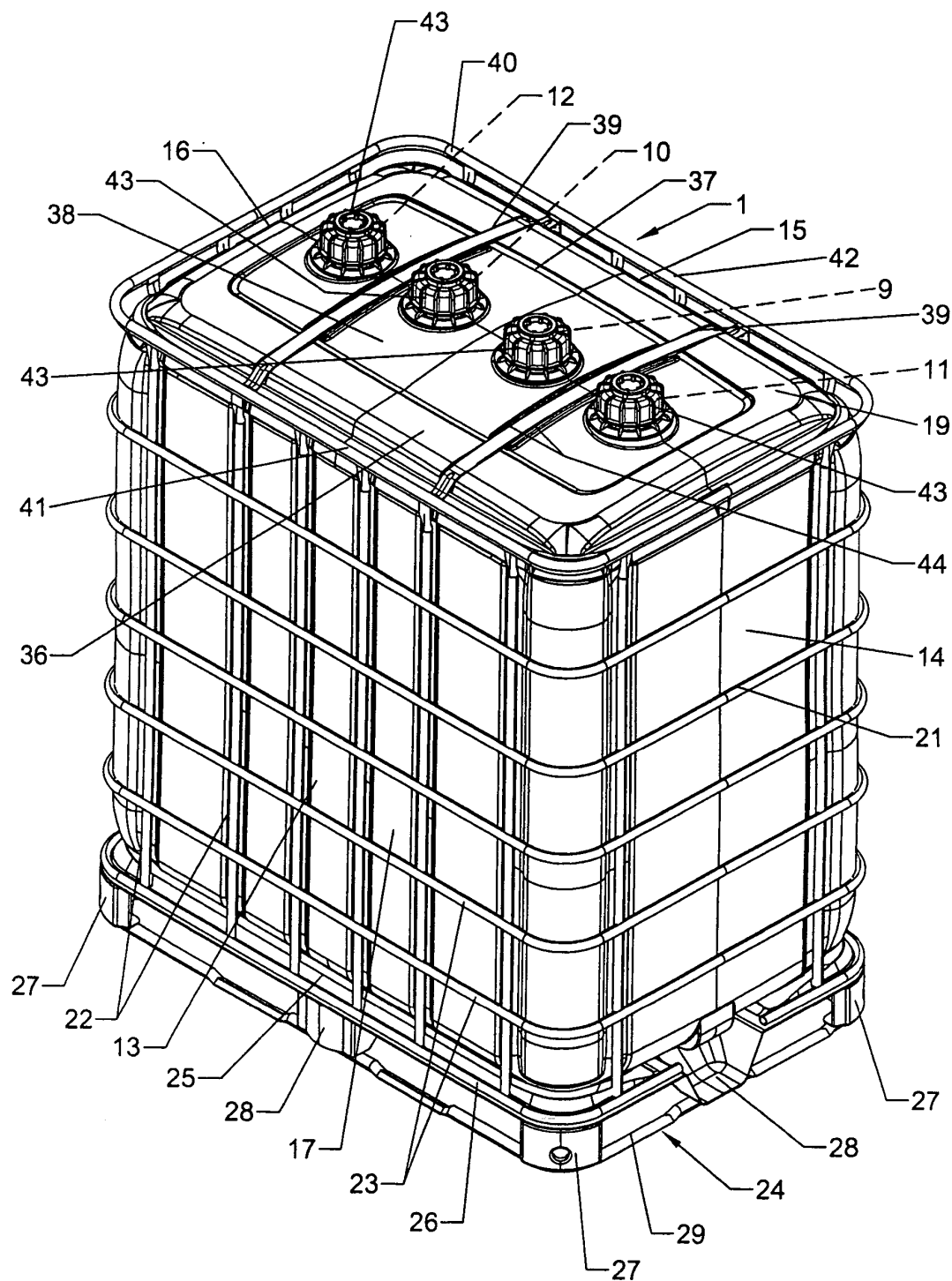
Family 28/58 - FAMPAT - ©Questel

Title

(EP1419980)

Container for fluids

Images



Publication data including kind & date

NO20035019	D0	2003-11-12	NO200305019
ZA200308502	B	2004-02-11	ZA200308502
BRPI0305268	A1	2004-04-13	BR200305268
NO20035019	L	2004-05-14	NO20035019
PL363340	A1	2004-05-17	PL2003363340
EP1419980	A1	2004-05-19	EP1419980
CN1500697	A	2004-06-02	CN1500697
AU2003262100	A1	2004-06-03	AU2003262100
JP2004161378	A	2004-06-10	JP2004161378
DE10252745	B3	2004-06-17	DE10252745
US20040164081	A1	2004-08-26	US20040164081
BR0305268	A	2004-08-31	BR200305268
IN0926/CHE/2003	A	2005-03-25	IN2003CH00926



AR040614	A1	2005-04-13	AR--40614				
RU2003133186	A	2005-04-20	RU2003133186				
AU2003262100	B2	2005-04-28	AU2003262100				
MXPA03010199	A	2005-06-06	MX2003PA010199				
RU2257318	C1	2005-07-27	RU2257318				
IN196302	B	2006-05-19	IN-196302				
CN1261332	C	2006-06-28	CN1261332C				
EP1419980	B1	2007-04-25	EP1419980				
AT360587	T	2007-05-15	ATE360587				
DE50307125	D1	2007-06-06	DE50307125				
DK1419980	T3	2007-09-10	DK1419980T				
ES2285021	T3	2007-11-16	ES2285021				
BRPI0305268	A2	2010-03-30	BR200305268				

Abstract

(EP1419980)

Main constructional parts of the storage container (1) for liquids are a blow moulded inner container (2) of synthetic plastics material, which has four side walls (3-6), a bottom floor (7) and a curved upper floor (8) with different connection sockets (9-12), further a blow-moulded outer container (13) of plastics material receiving the inner container (2), which is formed by four side walls (14-17), a floor (18) and a removable curved lid (19) of plastics material with corresponding through holes (24) for the sockets (9-12) of the inner container (2) and serves for leakage protection of the inner container, an outer cage (21) of cage rods (22,23) of metal as well as a pallet-like underframe (24) of metal for stacking and for transportation of the storage container (1) by means of forklifts or similar transportation devices.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

SCHUETZ

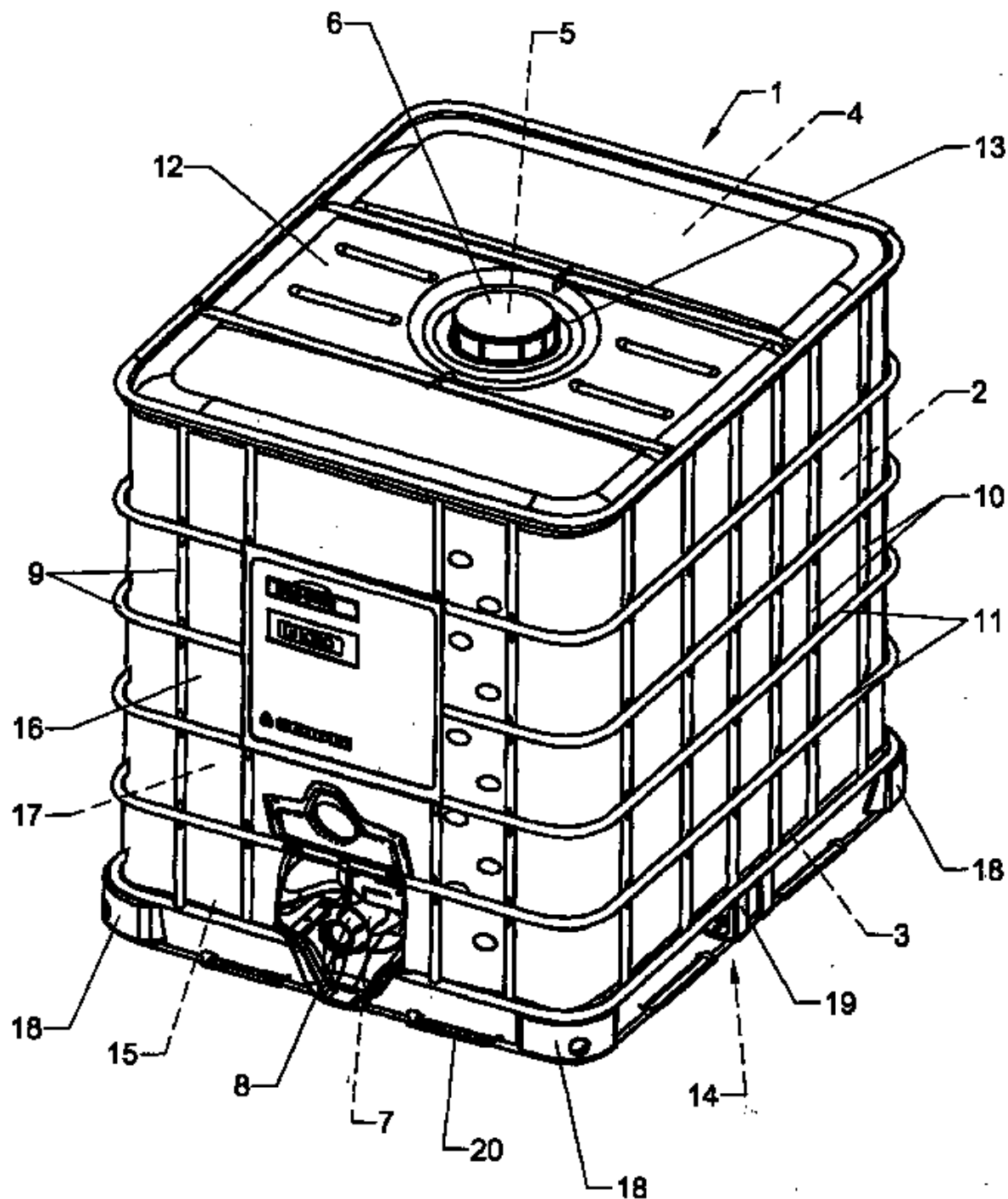
Family 29/58 - FAMPAT - ©Questel

Title

(DE10161693)

Transport pallet for hazardous fluid has layer of heat and fire insulation between plastic lining and outer wire frame

Images



Publication data including kind & date

[DE10161693](#)

A1 2003-07-03 DE10161693



Abstract

(DE10161693)

A liquid container has a pallet-like metal base. The container has a plastic lining (2) which is surrounded by a fire-protection metal wire frame (16). The lining (2) and outer wire frame (16) are separate esp. by a combined heat insulation and fire-protection layer. The fire protection mantle (16), protective cap (12) and base tray (15) are fabricated of heat-reflecting sheet metal. The fire and heat-insulation material is e.g. a woven fabric or a non-woven fleece of glass, aluminium or ceramic fibre.

(From DE10161693 A1)

Latest standardized assignees - inventors removed

PROTECHNA

Family 30/58 - FAMPAT - ©Questel

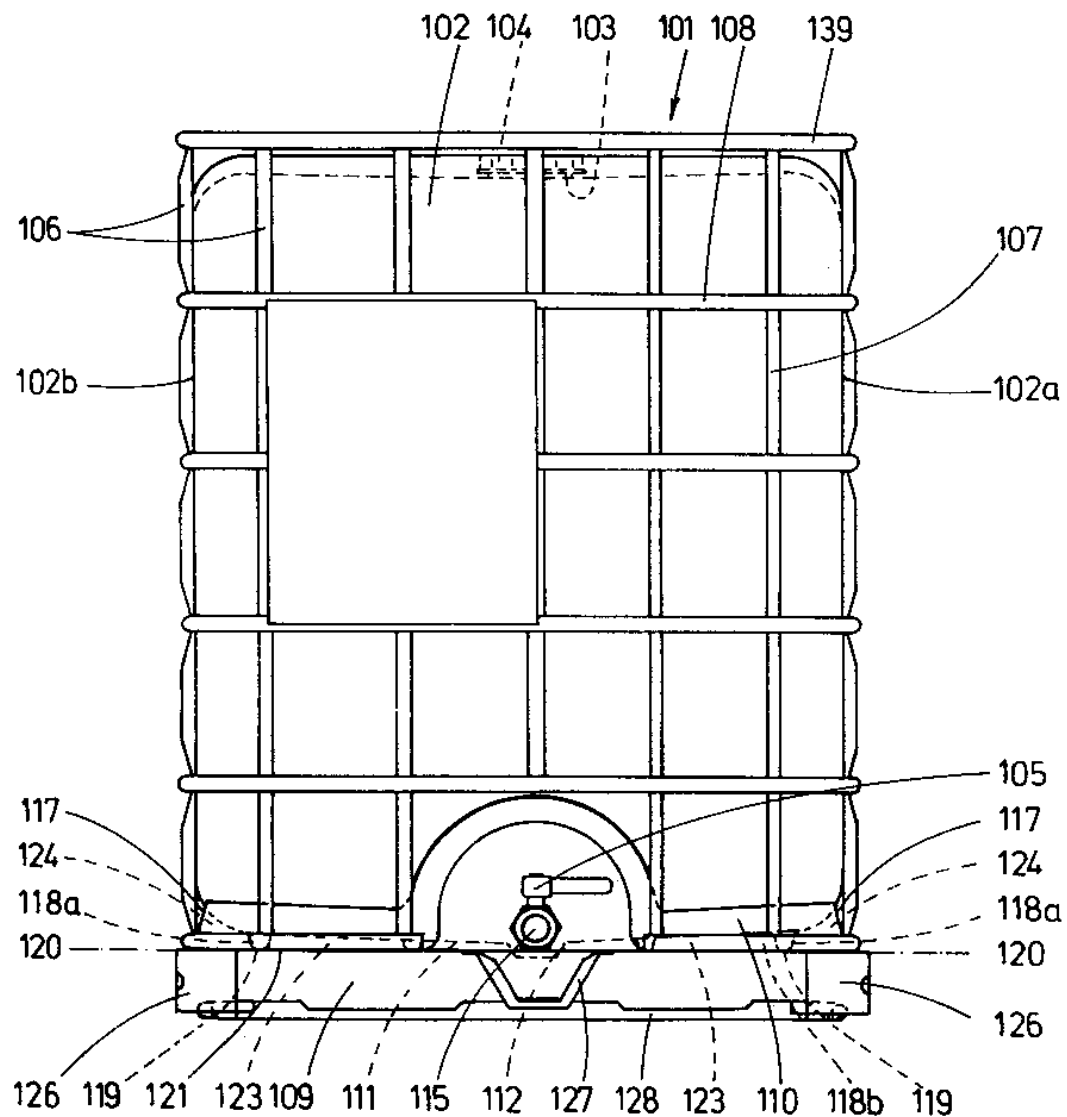
Title

(EP-509228)

Pallet-container

Images

Fig. 15



Publication data including kind & date

NO920949	D0	1992-03-11	NO9200949
HU9200830	D0	1992-05-28	HU9200830
CA2060346	A1	1992-09-16	CA2060346
NO920949	L	1992-09-16	NO-920949
IE920816	A1	1992-09-23	IE9200816
MX9201138	A	1992-10-01	MX9201138
CS75992	A3	1992-10-14	CS9200759
KR19920017914	A	1992-10-21	KR19920017914
EP0509228	A2	1992-10-21	EP-509228
CN1066036	A	1992-11-11	CN1066036
IL101226	A	1992-11-15	IL-101226
PL293798	A1	1992-11-16	PL92293798
BR9200871	A	1992-11-17	BR9200871
BRPI9200871	A1	1992-11-17	BRPI9200871



DE4206945	C1	1993-03-11	DE4206945				
JP05077832	A	1993-03-30	JP05077832				
US5253777	A	1993-10-19	US5253777				
PT8916	T	1994-04-29	PT---8916T				
EP0509228	A3	1994-05-18	EP-509228				
US5316174	A	1994-05-31	US5316174				
IL101226	B	1994-11-11	IL-101226				
CN1026882	C	1994-12-07	CN1026882C				
HUT67464	A	1995-04-28	HU-T67464				
KR950011153	B1	1995-09-28	KR950011153				
JP8005481	B2	1996-01-24	JP96005481				
PL168748	B1	1996-04-30	PL-168748				
EP0509228	B1	1996-09-25	EP-509228				
AT143332	T	1996-10-15	ATE143332				
ES2091966	T3	1996-11-16	ES2091966				
DK0509228	T3	1997-03-17	DK-509228T				
GR3021894	T3	1997-03-31	GR3021894				
BRPI9200871	B1	1997-11-25	BR199200871				
CA2060346	C	1997-12-30	CA2060346				
PT8916	U	1998-07-31	PT---8916U				
NO304180	B1	1998-11-09	NO-304180				
EP0509228	B2	2002-06-12	EP-509228				
DK0509228	T4	2002-10-07	DK-509228T				
ES2091966	T5	2004-06-16	ES2091966				

Abstract

(EP-509228)

The palette-container (101) for liquids has an exchangeable plastic inner container (102), an outer shell (106) of lattice work and a palette (109) which is constructed as a bottom tray (110) and receives the bottom (111) of the inner container with positive fit, said bottom being constructed as a drainage bottom and having a filling nozzle (103) and an emptying nozzle (115) with a removal tap (105). Reinforcing beads (118a, 118b) are moulded into the bottom tray (110) which is adapted to the inclination of the drainage bottom (111), the bases (119) of the said reinforcing beads lying in a common horizontal plane (120-120). The flat bottom tray (110) has an outer support edge (117) extending downwards and is riveted or welded to a flat sub-base (121) or a sheet metal underframe in the region of the reinforcing beads (118a, 118b) and of the support edge (117) to form a hollow bottom with closed and/or open chambers (123) and a peripheral, outer, hollow support collar (124). <??>Due to the use of a flat bottom tray which receives the plastic inner container and has a flat sub-base or sheet metal underframe having hollow chambers and an outer, peripheral, hollow support collar, the palette is distinguished by a good damping capability and a high rigidity both in the case of oscillation loading due to gush oscillations of the liquid product in the container and due to oscillations transmitted by the transport vehicle and in the case of jolting and impact loading.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

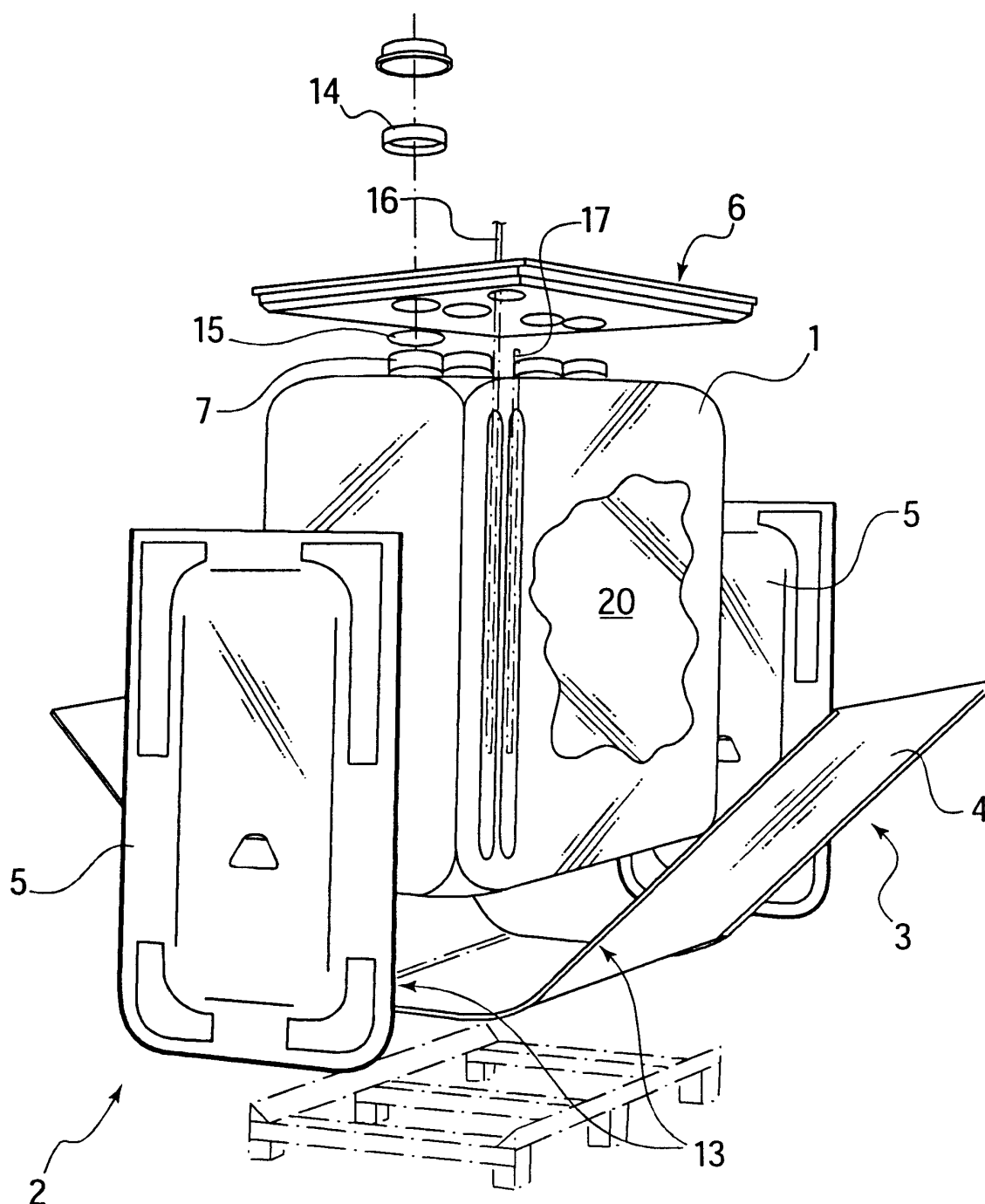
Family 31/58 - FAMPAT - ©Questel

Title

(EP1046596)

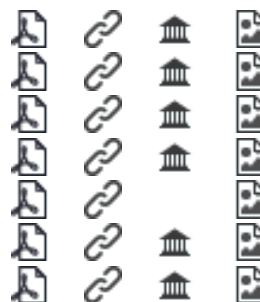
Double walled tank for oil or similar

Images



Publication data including kind & date

EP1046596	A1	2000-10-25	EP1046596
DE19917854	A1	2000-11-02	DE19917854
US6206228	B1	2001-03-27	US6206228
EP1046596	B1	2002-07-31	EP1046596
AT221503	T	2002-08-15	ATE221503
DE50000324	D1	2002-09-05	DE50000324
ES2177488	T3	2002-12-16	ES2177488



Abstract

(EP1046596)

The double-walled tank for diesel fuel, heating, lubricating or hydraulic oil consists of an inner plastic container (1) with outer sleeve (2) made of steel sheet. A lid with a U-shaped lip containing a seal fits over the top edge of the sleeve (3). The lid has bores which fit over supports (7) on the top of the inner container. Sealing rings (15) are fitted over the supports below the lid.

and a second set of sealing rings (14) is fitted above it.

Inventors

HERRN DIPL-VOLKSWIRT MANFRED R

Latest standardized assignees - inventors removed

ROTH MANFRED

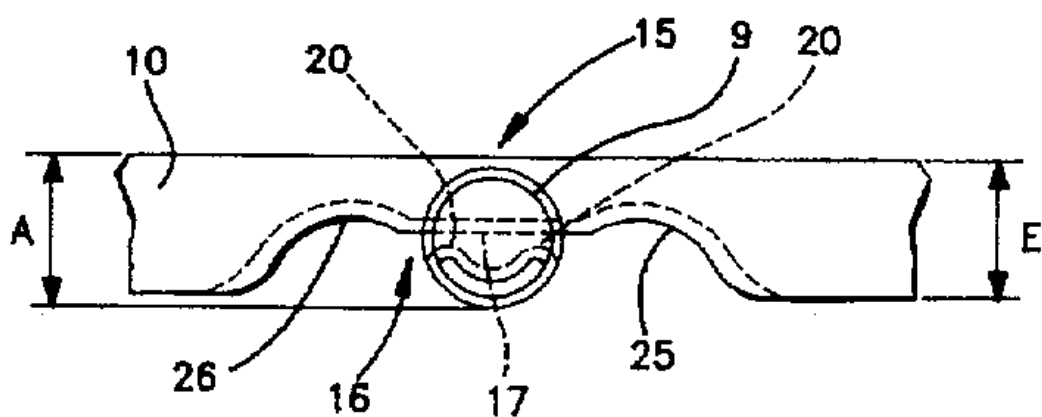
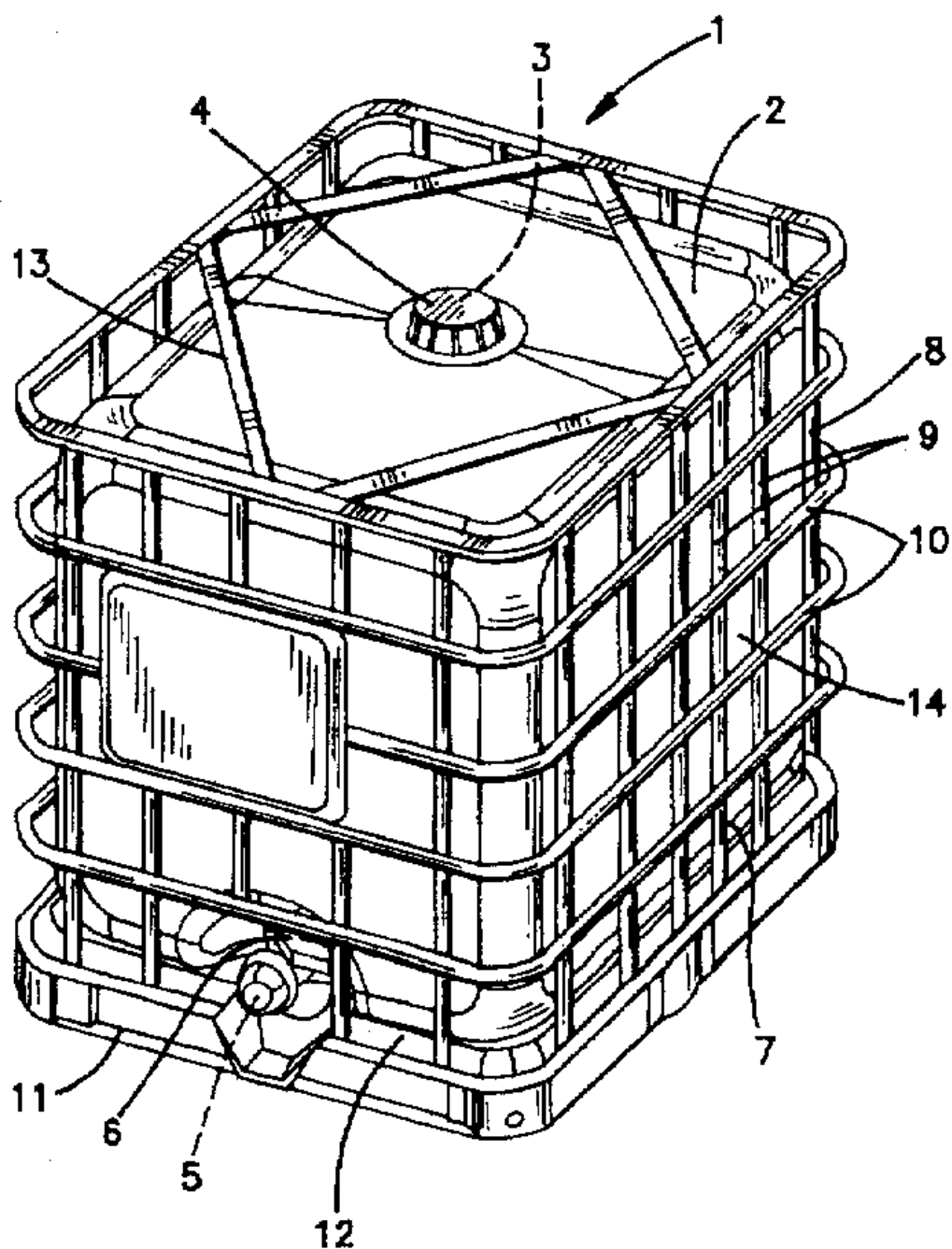
Family 32/58 - FAMPAT - ©Questel

Title

(EP-734967)

Pallet container

Images



Publication data including kind & date

NO960736

D0 1996-02-23

NO9600736

HU9600648

D0 1996-05-28

HU9600648



IL117590	A	1996-07-23	IL-117590				
DE19511723	C1	1996-08-29	DE19511723				
ZA9601620	B	1996-09-06	ZA9601620				
CA2172937	A1	1996-10-01	CA2172937				
NO960736	L	1996-10-01	NO-960736				
EP0734967	A2	1996-10-02	EP-734967				
AU5033396	A	1996-10-10	AU9650333				
TW287998	B	1996-10-11	TW-287998				
PL313472	A1	1996-10-14	PL96313472				
EE9600014	A	1996-10-15	EE9600014				
TR199600249	A2	1996-10-21	TR199600249				
KR960034018	A	1996-10-22	KR19960034018				
CN1135997	A	1996-11-20	CN1135997				
JP08318945	A	1996-12-03	JP08318945				
SK36896	A3	1996-12-04	SK9600368				
EP0734967	A3	1997-03-26	EP-734967				
MX9601218	A	1997-03-29	MX9601218				
HU9600648	A2	1997-06-30	HU9600648				
HRP960115	A2	1997-08-31	HRP960115				
US5678688	A	1997-10-21	US5678688				
AU686500	B2	1998-02-05	AU-686500				
JP2711529	B2	1998-02-10	JP2711529				
RU2104238	C1	1998-02-10	RU2104238				
BR9601184	A	1998-03-31	BR9601184				
HU9600648	A3	1998-06-29	HU9600648				
YU19096	A	1998-07-10	YU9600190				
EP0734967	B1	1999-05-26	EP-734967				
AT180456	T	1999-06-15	ATE180456				
DE59601971	D1	1999-07-01	DE59601971				
CZ75696	A3	1999-07-14	CZ9600756				
ES2131884	T3	1999-08-01	ES2131884				
DK0734967	T3	1999-12-06	DK-734967T				
PL179056	B1	2000-07-31	PL-179056				
RO116264	B1	2000-12-29	RO-116264				
CN1060446	C	2001-01-10	CN1060446C				
BRPI9601184	A1	2001-09-18	BR199601184				
BRPI9601184	B1	2002-04-30	BR199601184				
IN193605	B	2006-01-13	IN-193605				

Abstract

(EP-734967)

Pallet container in which the trough shaped recesses (16) of the vertical and horizontal lattice bars (9,10) have a central raised section (17). At the cross over point (15) of the two bars the four contact sections (20) are welded together. The sections (25,26) on either side of the welded joints form elastic bending points which relieve the welded joints when the lattice cover (8) undergoes static and/or dynamic loading.

Inventors

KRASS PETER DIPL-ING

SCHNEEGANS JOCHEN DR

WEYRAUCH DETLEV DR

Latest standardized assignees - inventors removed

PROTECHNA

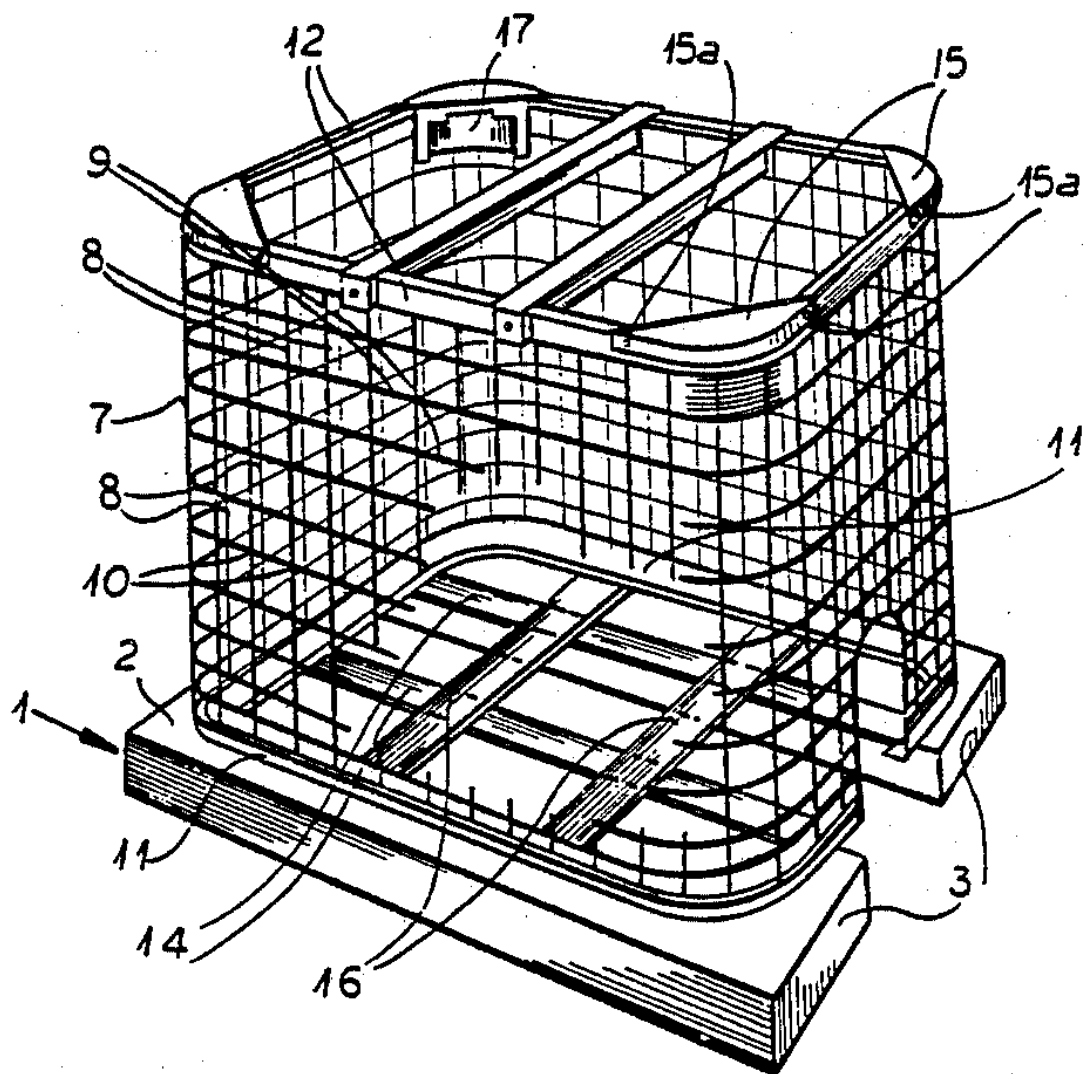
Family 33/58 - FAMPAT - ©Questel

Title

(EP-239709)

Palletized container with a protection device formed of a bent and reinforced wire structure

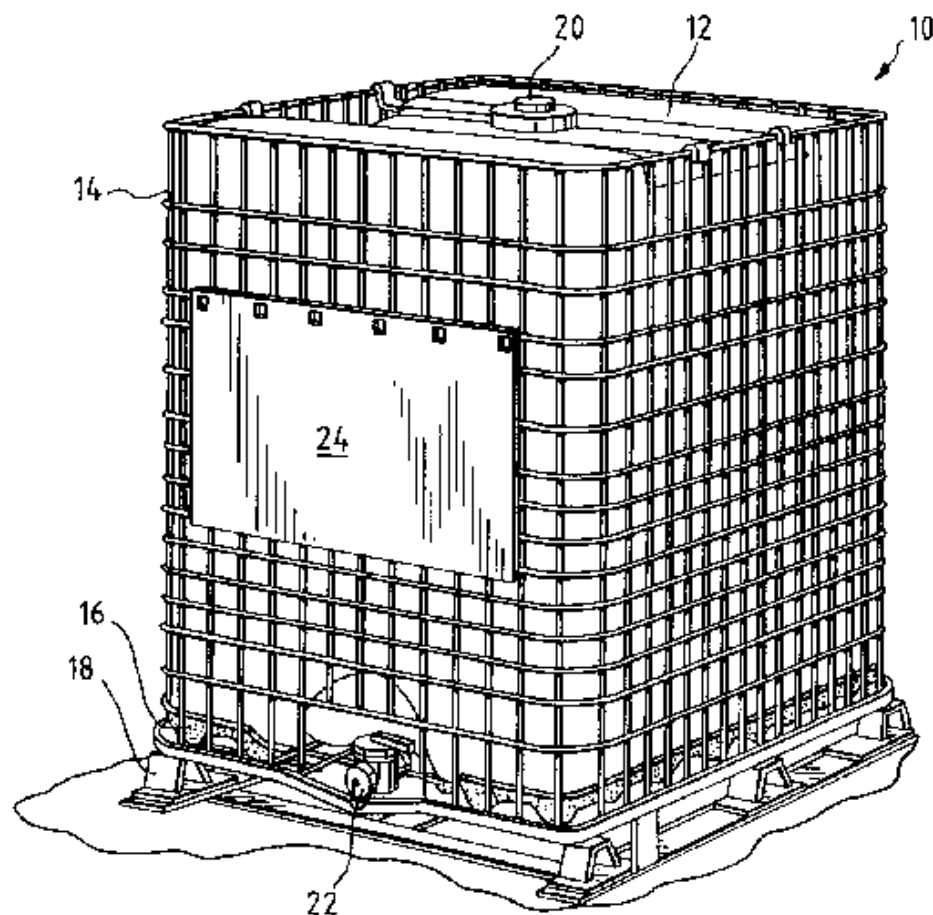
Images



Publication data including kind & date

FR2596360	A1	1987-10-02	FR2596360
EP0239709	A1	1987-10-07	EP-239709
JPS62287845	A	1987-12-14	JP62287845
PL264856	A1	1988-02-04	PL87264856
US4795057	A	1989-01-03	US4795057
AU7528987	A	1989-01-12	AU8775289
ES2004585	A6	1989-01-16	ES2004585
FR2596360	B1	1989-02-17	FR2596360
USD301481	S1	1989-06-06	USD301481
USD301480	S1	1989-06-06	USD301480
AU586109	B2	1989-06-29	AU-586109
IN167865	B	1990-12-29	IN-167865



FIG. 1**Publication data including kind & date**[US5924589](#)

A 1999-07-20 US5924589

**Abstract**

(US5924589)

A fire resistant composite intermediate bulk container for holding flammable liquids is provided. The composite IBC has an inner polyethylene container surrounded on at least its vertical sides by a protective metal cage. The protective metal cage is coated with an intumescent paint or other intumescent coating. When the intumescent coating is exposed to high temperatures, such as could occur during a fire, the coating swells and chars, producing an ash that insulates the metal cage, preventing it from heating up to the point where it can melt through the polyethylene container.

Inventors

GORDON GERALD A

Latest standardized assignees - inventors removed

GREIF SERVICES A DELAWARE LIABILITY

GREIF

GREIF INDUSTRIAL PACKAGING & SERVICES A DELAWARE LIABILITY

AMERICAN FLANGE & MANUFACTURING

GREIF PAPER PACKAGING & SERVICES A DELAWARE LIABILITY

GREIF INDUSTRIAL PACKAGING & SERVICES

GRIEF BROS

GREIF PACKAGING

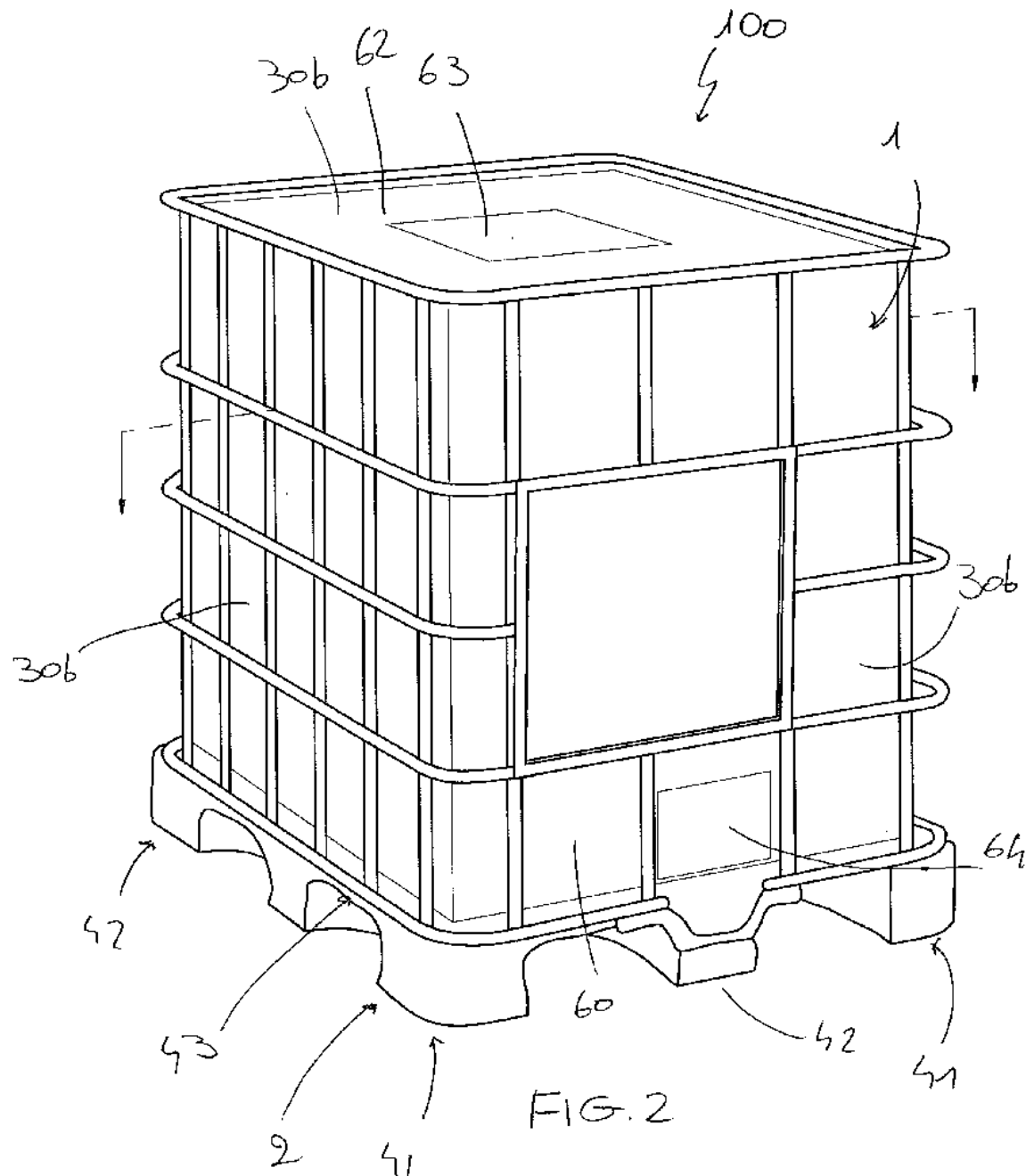
Family 35/58 - FAMPAT - ©Questel

Title

(EP2979991)

Multilayer material, fire protection mat with said multilayer material and transport and storage container assembly comprising said fire protection mat.

Images



Publication data including kind & date

EP2979991

A1 2016-02-03 EP2979991



Abstract

(EP2979991)

A multilayer material comprises a first heat insulation support layer (10) comprising a material containing an aerogel, said heat insulation support layer (10) having a first inner surface (10a) and a first outer surface (10b), a second flame barrier layer (20) comprising a ceramic foam, said second flame barrier layer (20) having a second inner surface (20a) and a second outer surface (20b), said second inner surface (20a) being firmly coupled with said first outer surface (10b), and a third electrostatic discharge layer (30) consisting of a material with surface electric resistance lower than $10^{11} \Omega$, said third electrostatic discharge layer (30) having a third inner surface (30a) and a third outer surface (30b), said third inner surface (30a) being firmly coupled with said second outer surface (20b). A fire protection mat (1) comprises said multilayer material. A transport and storage container assembly (100) comprises a pallet (2), an inner container (3) arranged on said pallet (2), an outer casing (4) arranged on said pallet (2) and surrounding laterally said inner container (3) and said fire protection mat (1) arranged between said inner container (3) and said outer casing (4) and between said inner container (3) and said pallet (2),

Inventors

BARION GUIDO

Latest standardized assignees - inventors removed

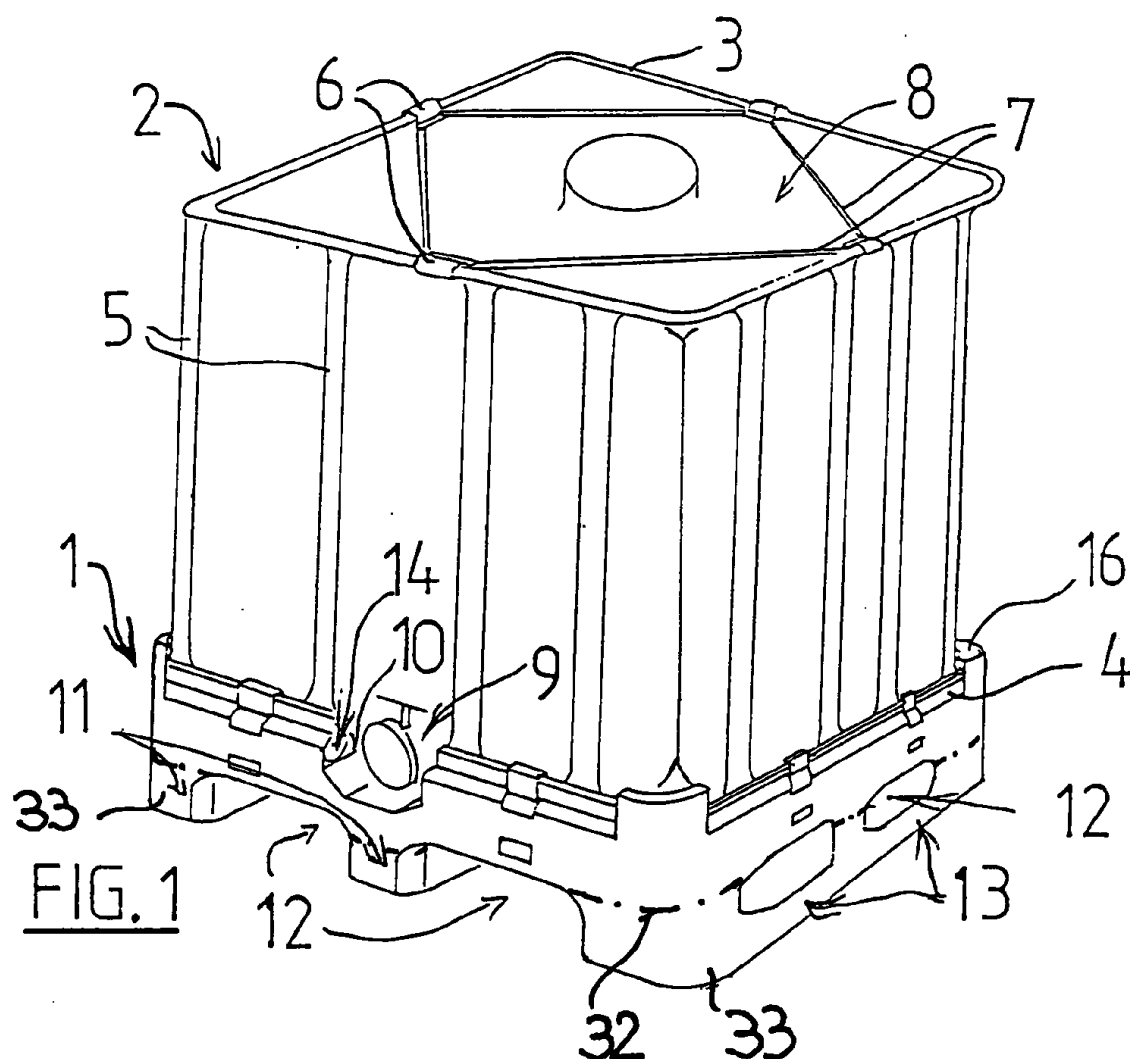
GREIF INTERNATIONAL HOLDING

Family 36/58 - FAMPAT - ©Questel

Title

(EP-695694)

Pallet container

Images**Publication data including kind & date**

DE9412606	U1	1994-11-03	DE9412606
EP0695694	A2	1996-02-07	EP-695694
EP0695694	A3	1996-11-13	EP-695694
EP0695694	B1	1998-11-25	EP-695694
DE59504311	D1	1999-01-07	DE59504311
EP0695694	B2	2004-01-07	EP-695694

**Abstract**

(EP-695694)

The container, for the storage and transport of components etc. has a sidewall frame (2) with peripheral top and bottom edges (3,4). The bottom frame edge encloses a supporting surface (10), and is secured by fixing devices (25) in a peripheral groove (14) in the body (1) of the pallet. The groove can be enclosed on the outside by ribs extending for at least

part of its length, and on the inside by a further rib protruding above the supporting surface. This rib can join onto the latter via a radiused flank. A flexible extension can be formed on the edge of the free rib.

Inventors

SCHNEIDER EKKEHARD DIPL-ING

Latest standardized assignees - inventors removed

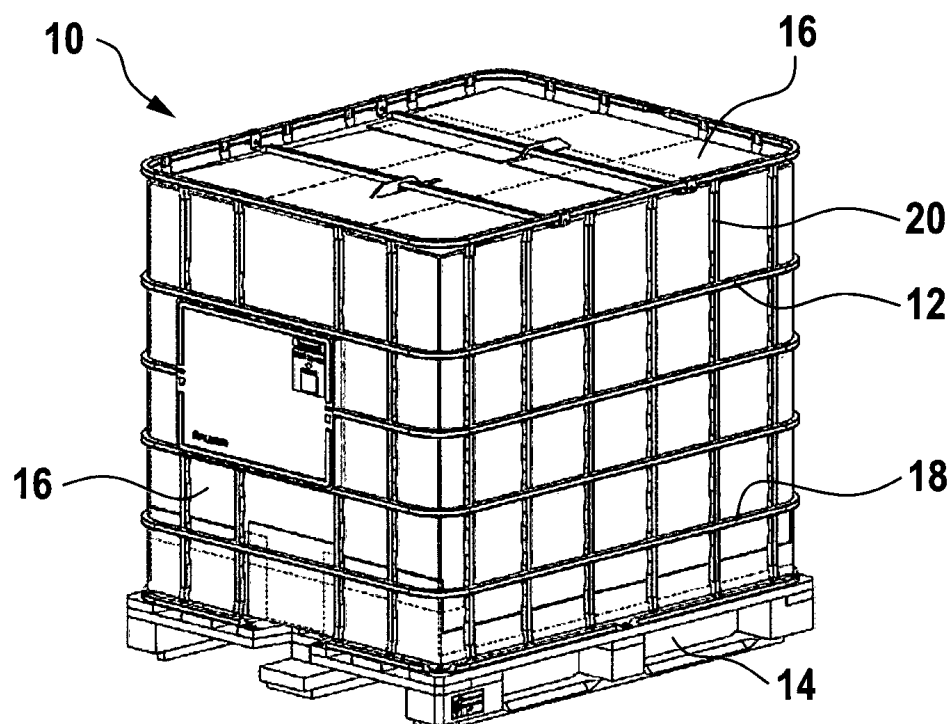
SCHNEIDER HELMHOLD DR

Family 37/58 - FAMPAT - ©Questel

Title

(WO201776497)

Intermediate bulk container

Images**Fig. 1****Publication data including kind & date**

DE102015014084	A1	2017-05-04	DE102015014084
WO2017076497	A2	2017-05-11	WO201776497
WO2017076497	A3	2017-08-10	WO201776497

**Abstract**

(WO201776497)

The present invention relates to an intermediate bulk container (10) for storing and transporting liquid contents, in particular flammable or highly flammable liquids, comprising: a rigid, thin-walled inner container, consisting of thermoplastic plastics, for holding the liquid contents; a tube grid frame (12) which consists of tubes welded together and tightly surrounds the plastics inner container in the form of a supporting casing; and a wooden pallet (14), on which the plastics inner container lies and to which the tube grid frame is permanently connected (12), the plastics inner container being surrounded by a fire-protection insulating mat (16) inside the tube grid frame (12) (UL-IBC). In order to facilitate the use of low-cost wooden pallets for UL-IBCs, according to the invention, the wooden pallet (14) is subjected to a special fire protection treatment to increase its fire- and heat-resistance. This special fire-protection treatment allows even a wooden pallet to satisfy, in a simple and surprising manner, the fire-protection requirements for a UL-IBC.

Inventors

WEYRAUCH DETLEV

Latest standardized assignees - inventors removed

MAUSER WERKE

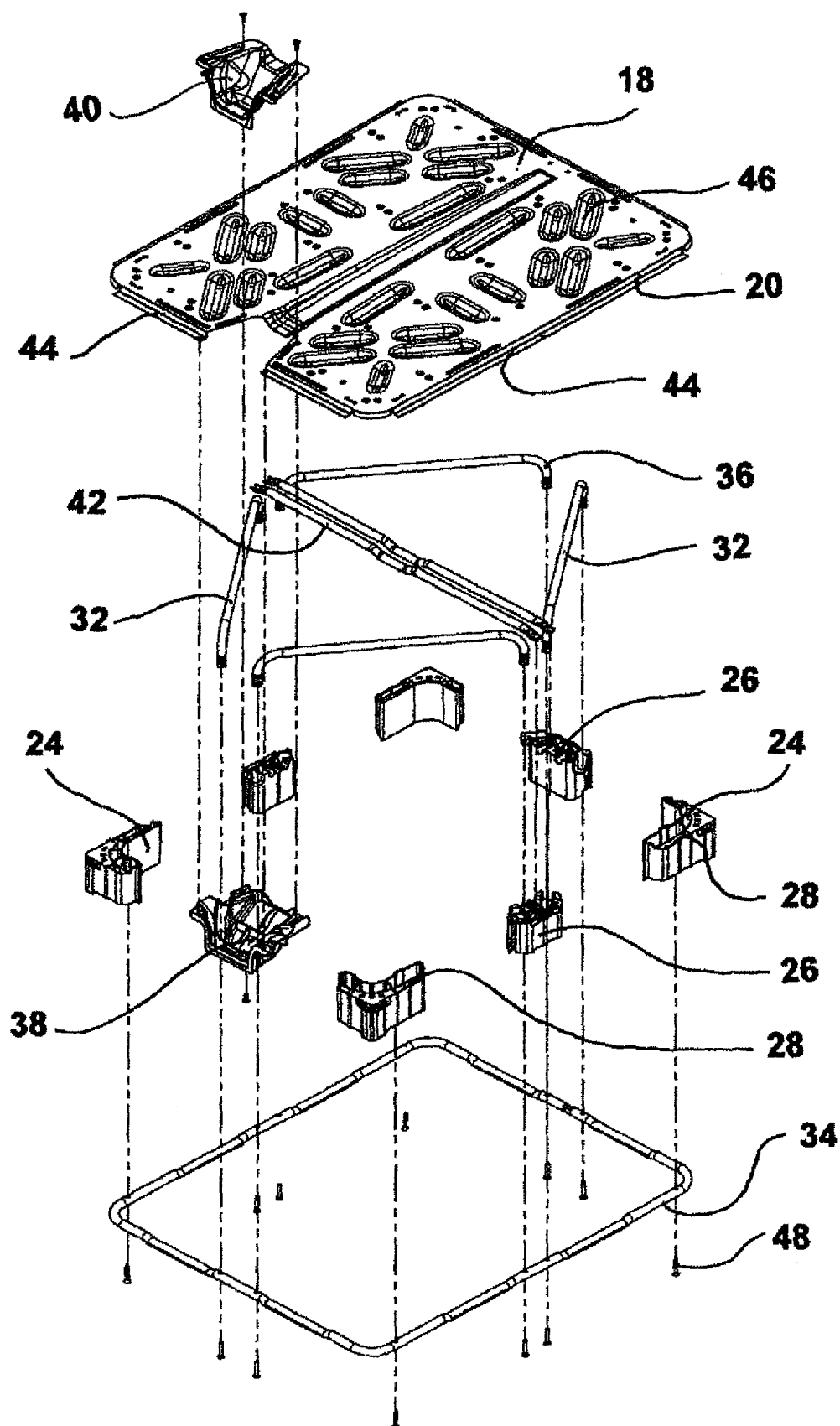
Family 38/58 - FAMPAT - ©Questel

Title

(EP2897884)

Pallet container

Images



Publication data including kind & date

DE202013000624	U1	2013-05-02	DE202013000624
CA2885586	A1	2014-03-27	CA2885586
CA2885588	A1	2014-03-27	CA2885588
WO2014044372	A1	2014-03-27	WO201444372
WO2014/044375	A1	2014-03-27	WO201444375



AU2013320655	A1	2015-04-09	AU2013320655				
AU2013320652	A1	2015-04-09	AU2013320652				
SG11201502169P	A	2015-05-28	SG11201502169P				
SG11201501866Y	A	2015-05-28	SG11201501866Y				
KR20150058456	A	2015-05-28	KR20150058456				
IL237714	A	2015-05-31	IL-237714				
IL237712	A	2015-05-31	IL-237712				
KR20150060808	A	2015-06-03	KR20150060808				
DE112013004620	A5	2015-06-03	DE112013004620				
MX2015003617	A	2015-06-05	MX2015003617				
MX2015003615	A	2015-06-05	MX2015003615				
DE112013004633	A5	2015-06-25	DE112013004633				
EP2897882	A1	2015-07-29	EP2897882				
EP2897884	A1	2015-07-29	EP2897884				
US20150239608	A1	2015-08-27	US20150239608				
US20150246748	A1	2015-09-03	US20150246748				
IN2556DEN2015	A	2015-09-11	IN2015DN02556				
IN2547DEN2015	A	2015-09-11	IN2015DN02547				
CN104936866	A	2015-09-23	CN104936866				
CN104955740	A	2015-09-30	CN104955740				
JP2015533736	A	2015-11-26	JP2015533736				
JP2015533734	A	2015-11-26	JP2015533734				
US9233777	B2	2016-01-12	US9233777				
US9394077	B2	2016-07-19	US9394077				
AU2013320652	B2	2016-08-11	AU2013320652				
EP2897884	B1	2016-11-02	EP2897884				
RU2015114700	A	2016-11-10	RU2015114700				
RU2015114775	A	2016-11-20	RU2015114775				
EP2897882	B1	2016-11-30	EP2897882				
DK2897884	T3	2017-02-06	DK2897884T				
BR112015006173	A1	2017-02-21	BR112015006173				
AU2013320655	B2	2017-02-23	AU2013320655				
DK2897882	T3	2017-03-06	DK2897882T				
HRP20170065	T1	2017-03-10	HRP20170065				
PL2897884	T3	2017-03-31	PL2897884				
HRP20170235	T1	2017-04-07	HRP20170235				
BR112015006168	A1	2017-04-18	BR112015006168				
ES2610929	T3	2017-05-04	ES2610929				
ES2616433	T3	2017-06-13	ES2616433				
HUE030781	T2	2017-06-28	HUE030781				
PL2897882	T3	2017-06-30	PL2897882				
BR112015006168	A2	2017-07-04	BR112015006168				
BR112015006173	A2	2017-07-04	BR112015006173				
HUE031217	T2	2017-07-28	HUE031217				
ZA201501739	B	2017-08-30	ZA201501739				
CN104955740	B	2017-09-22	CN104955740B				
RU2633232	C2	2017-10-11	RU2633232				
RU2633243	C2	2017-10-11	RU2633243				

JP6223457	B2	2017-11-01	JP6223457				
JP6223455	B2	2017-11-01	JP6223455				
CN104936866	B	2017-11-03	CN104936866B				
MX353013	B	2017-12-18	MX-353013				
MX355879	B	2018-05-03	MX-355879				
MY167971	A	2018-10-09	MY-167971				

Abstract

(EP2897884)

The invention relates to a pallet container (10) for storing and transporting especially hazardous liquid products, comprising a replaceable thin-walled thermoplastic inner receptacle (16) for holding the liquid product, a tube grid frame (14) which tightly surrounds the inner receptacle (16) as a supporting jacket, is made of vertical and horizontal tubular bars that are welded together, and is secured to the upper outer edge of a forklift-adapted base pallet (12). The rectangular base pallet (12) has a flat top deck consisting of a thin sheet metal plate (18) as a support for the inserted inner receptacle (16) and a pallet understructure that includes four thermoplastic corner legs (24) and four thermoplastic central legs (26) therebetween. The base pallet also has a rectangular steel tube base ring (34) which extends peripherally in a horizontal direction on the floor side. The base pallet (12) is provided with means for diverting electric charges, said means being designed in such a way that the pallet understructure has an upper tubular frame that has four separate, equally long tube pieces (32) which extend diagonally directly below the metal plate (18) and the ends of which are secured to two adjacent central legs (26) in such a way that a rhombic support frame on which the metal plate (18) is mounted is formed below the base plate. The four separate tube pieces (32) are connected in an electrically conductive manner to the steel tube base ring (34) located on the floor side by means of adequate threaded joints (48) so that the pallet container of the invention is protected in a simple and elegant fashion against any type of electric charges.

Inventors

WEYRAUCH DETLEV

BISCHOFF SEBASTIAN

Latest standardized assignees - inventors removed

MAUSER WERKE

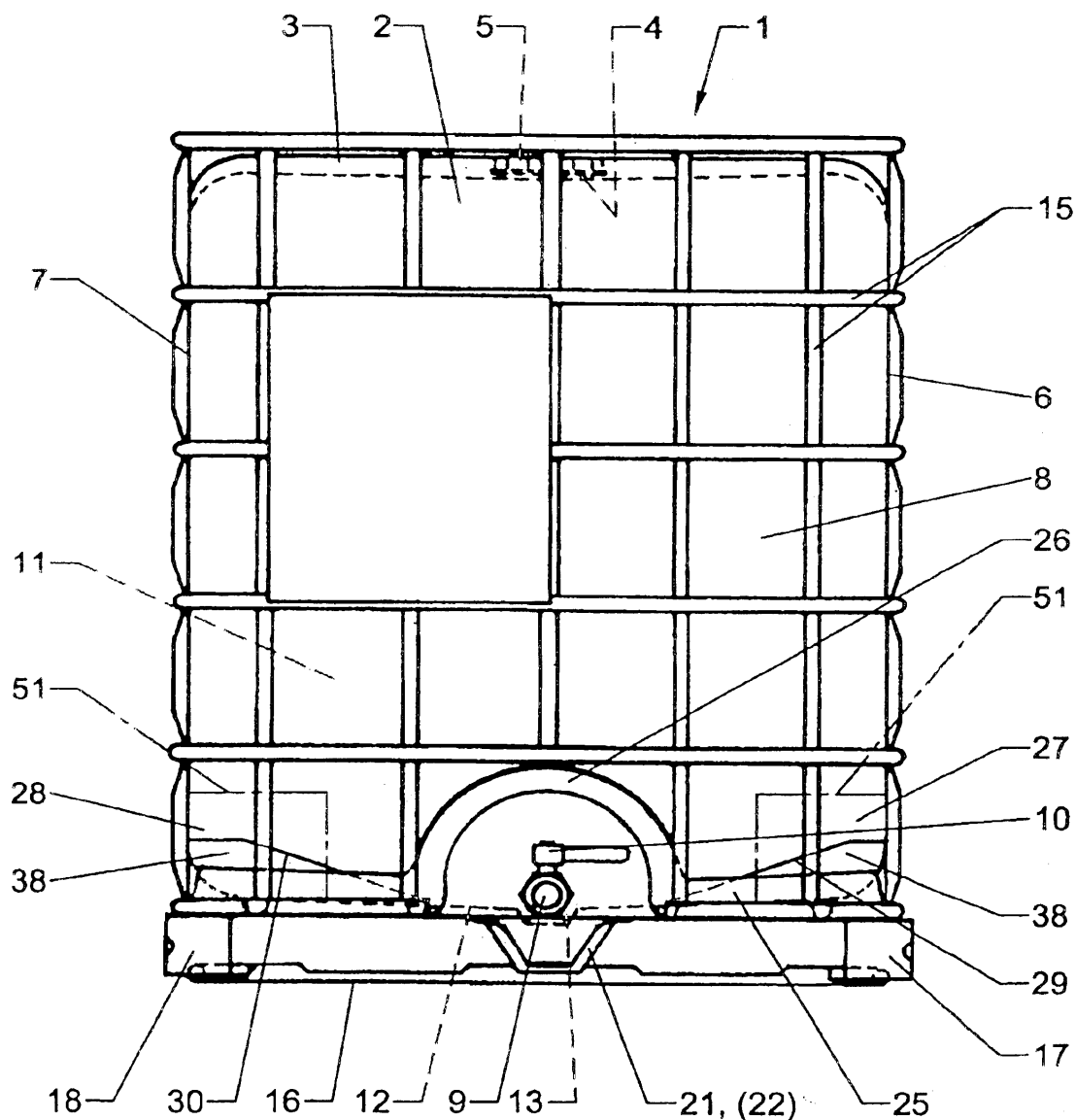
Family 39/58 - FAMPAT - ©Questel

Title

(EP1215133)

Transport and storage container for liquids

Images



Publication data including kind & date

DE20021321	U1	2001-03-22	DE20021321
NO20016024	D0	2001-12-10	NO200106024
BRPI0106132	A1	2002-02-19	BR200106132
ZA200110242	B	2002-03-13	ZA200110242
PL351154	A1	2002-06-17	PL2001351154
NO20016024	L	2002-06-17	NO20016024
EP1215133	A2	2002-06-19	EP1215133
AU9709201	A	2002-06-20	AU200197092
CN1359835	A	2002-07-24	CN1359835
BR0106132	A	2002-08-20	BR200106132
JP2002240886	A	2002-08-28	JP2002240886
US20020134780	A1	2002-09-26	US20020134780
DE10100133	A1	2003-01-16	DE10100133
AR031810	A1	2003-10-01	AR--31810
RU2225823	C2	2004-03-20	RU2225823
MXPA01012572	A	2004-05-21	MX2001PA012572
DE10100133	B4	2004-07-22	DE10100133
US6832693	B2	2004-12-21	US6832693



EP1215133	A3	2005-03-30	EP1215133				
US20050087531	A1	2005-04-28	US20050087531				
AU783626	B2	2005-11-17	AU-783626				
CN1241804	C	2006-02-15	CN1241804C				
JP3813868	B2	2006-06-09	JP3813868				
JP2006151517	A	2006-06-15	JP2006151517				
MY129020	A	2007-03-30	MY-129020				
PL201447	B1	2009-04-30	PL-201447				
IN1004/MAS/2001	A	2009-07-03	IN2001CH01004				
NO327916	B1	2009-10-19	NO-327916				
JP4425228	B2	2009-12-18	JP4425228				
BRPI0106132	A2	2010-06-08	BR200106132				
EP1215133	B1	2010-07-21	EP1215133				
AT474788	T	2010-08-15	ATE474788				
DE50115562	D1	2010-09-02	DE50115562				
ES2348531	T3	2010-12-09	ES2348531				
BR0106132	B1	2011-09-06	BR200106132				

Abstract

(EP1215133)

A pallet-mounted liquid container has an inner plastic tank with an inlet at the top, two sidewalls, a front wall, an outlet with tap near the base and a rear wall. The container base has especially an internal drainage gully in a central position between two base halves which incline downwards towards the center and front outlet. The tank has a frame like outer shell.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

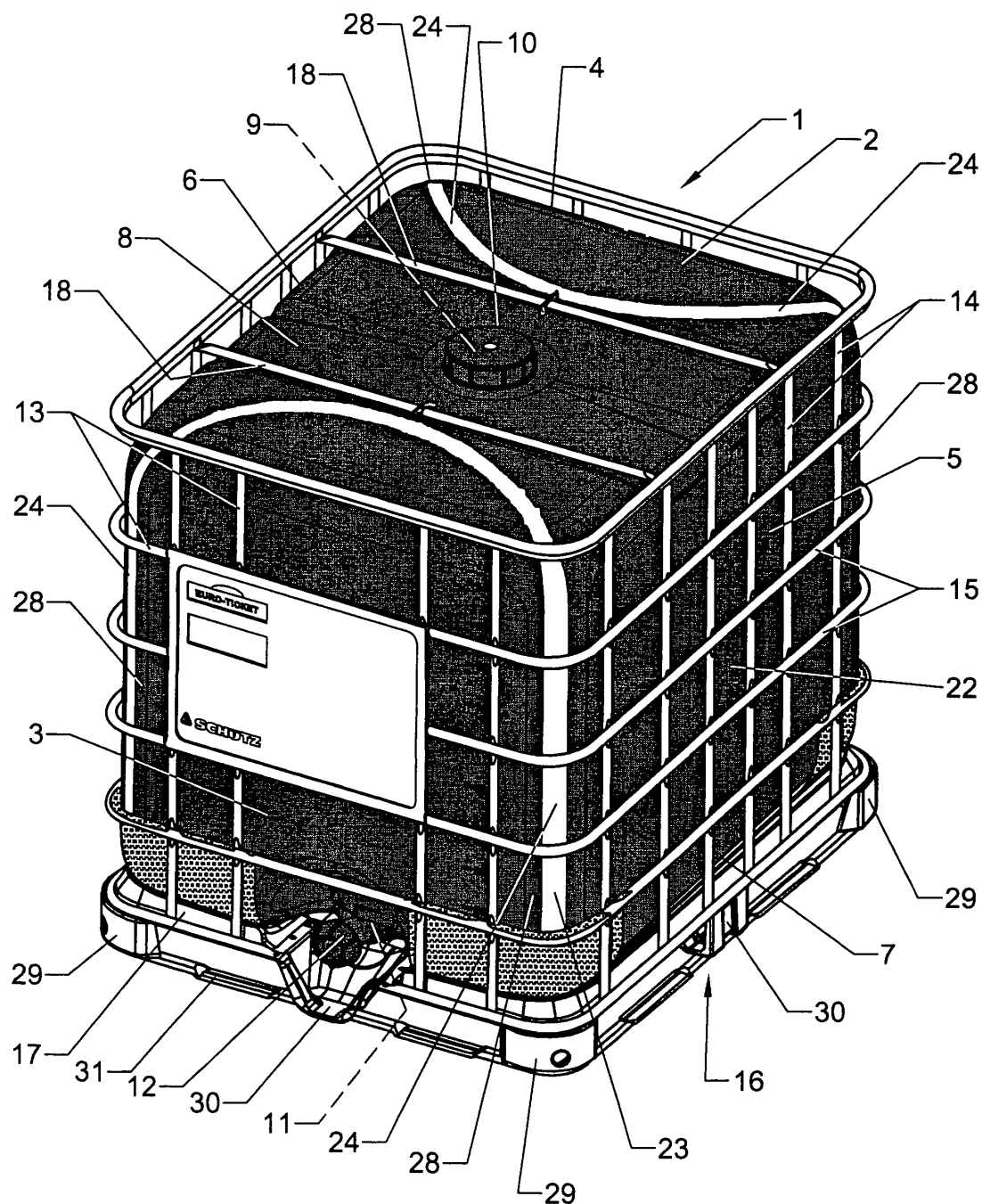
Family 40/58 - FAMPAT - ©Questel

Title

(EP1400462)

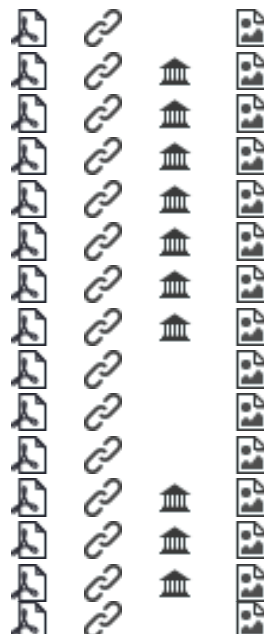
Transport and storing container for liquids

Images



Publication data including kind & date

NO20034118	D0	2003-09-16	NO200304118
NO20034118	L	2004-03-18	NO20034118
EP1400462	A2	2004-03-24	EP1400462
DE10242956	A1	2004-03-25	DE10242956
JP2004106942	A	2004-04-08	JP2004106942
US20040089659	A1	2004-05-13	US20040089659
CN1500709	A	2004-06-02	CN1500709
DE10242956	B4	2004-07-15	DE10242956
MXPA03008175	A	2004-11-29	MX2003PA008175
RU2003127937	A	2005-03-10	RU2003127937
RU2257328	C2	2005-07-27	RU2257328
CN1214959	C	2005-08-17	CN1214959C
EP1400462	A3	2006-03-22	EP1400462
EP1400462	B1	2007-06-13	EP1400462



AT364560	T	2007-07-15	ATE364560
DE50307451	D1	2007-07-26	DE50307451
DK1400462	T3	2007-10-08	DK1400462T
ES2286367	T3	2007-12-01	ES2286367
JP4067476	B2	2008-01-18	JP4067476
US7559431	B2	2009-07-14	US7559431
NO328239	B1	2010-01-11	NO-328239



Abstract

(EP1400462)

Container for storage and transport of fluids, includes integral sections of electrically-conductive plastic, to connect container surfaces

In the body (22) of the single- or multilayer container (2) integral sections (23) of electrically-conductive plastic form electrical connections between the inner and outer surfaces (25, 26). The electrically conductive sections of the container are strips (24) corresponding with its thickness. They run perpendicularly over the sidewalls and/or corners between walls. They also run under the base, and optionally the top. Inner and/or outer layers of permanently-conductive plastic are provided with a middle layer. A barrier layer is included, in two bonding layers. An Independent claim is included for the method of manufacture.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

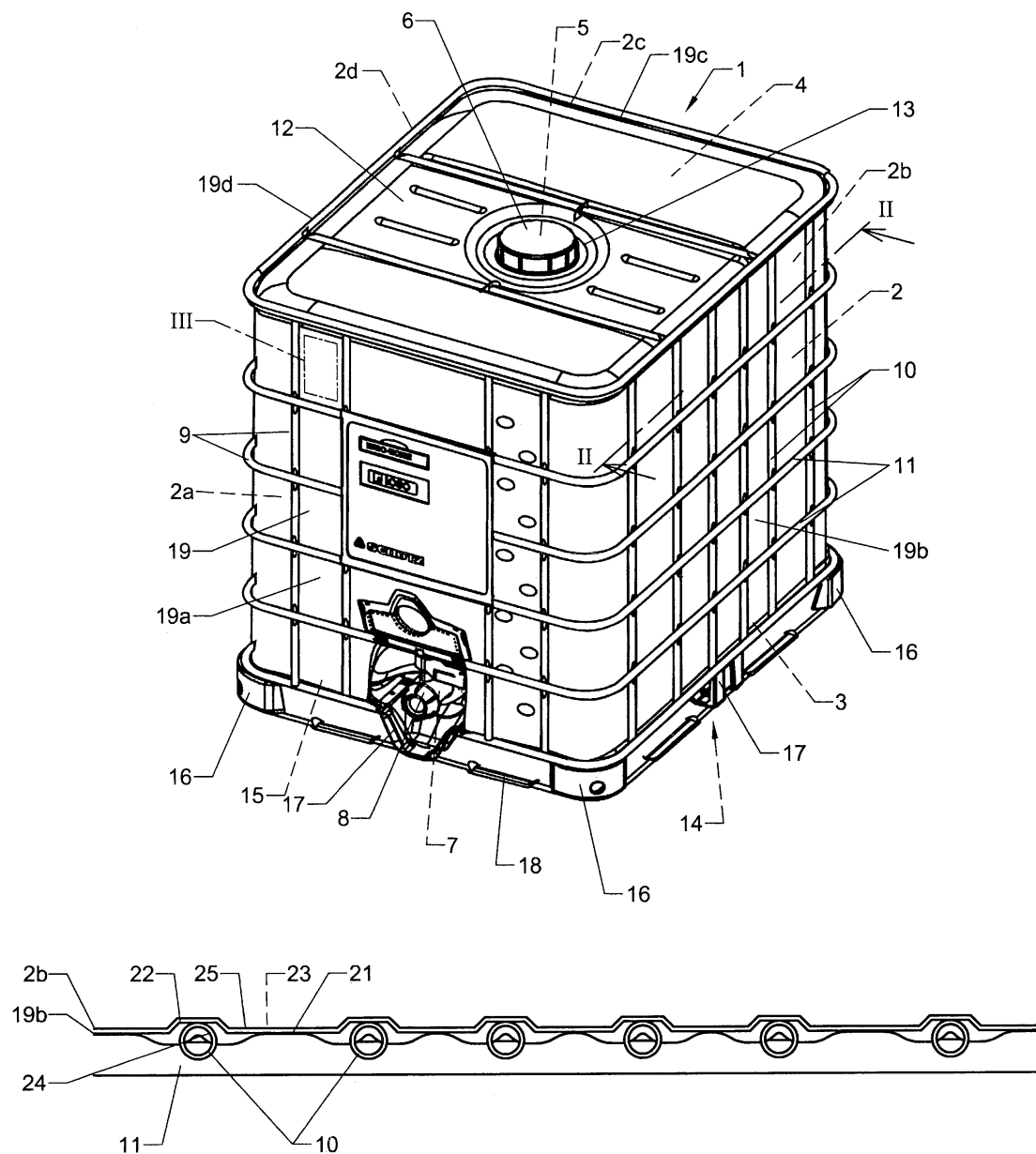
Family 41/58 - FAMPAT - ©Questel

Title

(EP1357052)

Transportable storage container for liquids

Images



Publication data including kind & date

DE20206652	U1	2002-08-08	DE20206652
NO20031832	D0	2003-04-24	NO200301832
ZA200302754	B	2003-07-08	ZA200302754
NO20031832	L	2003-10-27	NO20031832
EP1357052	A2	2003-10-29	EP1357052
PL359817	A1	2003-11-03	PL2003359817
AU2003203850	A1	2003-11-13	AU2003203850
US20030230580	A1	2003-12-18	US20030230580
JP2004001890	A	2004-01-08	JP2004001890
CN1475418	A	2004-02-18	CN1475418
BRPI0305461	A1	2004-04-13	BR200305461
BR0305461	A	2004-08-31	BR200305461
MXPA03003566	A	2004-09-03	MX2003PA003566
RU2003112060	A	2005-01-10	RU2003112060
RU2243929	C1	2005-01-10	RU2243929
AR039671	A1	2005-03-02	AR--39671
CN1238228	C	2006-01-25	CN1238228C



IN0353/CHE/2003	A	2006-08-04	IN2003CH00353				
EP1357052	A3	2006-08-16	EP1357052				
US7165694	B2	2007-01-23	US7165694				
IN206293	B	2007-06-29	IN-206293				

Abstract

(EP1357052)

The transport and storage container (1) for liquids comprises an inner changeable plastic container (2), an outer metal grid cover structure (9) and a support insert (19) consisting of wall sections (19a, 19b, 19c, 19d) which are provided with stiffening structure elements of various geometrical form.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 42/58 - FAMPAT - ©Questel

Title

(EP-709303)

Pallet container for the transport and storage of liquids

Images

CN1136002	A	1996-11-20	CN1136002				
CZ282201	B6	1997-05-14	CZ-282201				
JP09132292	A	1997-05-20	JP09132292				
BR9504589	A	1997-05-27	BR9504589				
US5655679	A	1997-08-12	US5655679				
EP0709303	B1	1997-09-17	EP-709303				
AT158250	T	1997-10-15	ATE158250				
DE59500678	D1	1997-10-23	DE59500678				
JP2670766	B2	1997-10-29	JP2670766				
ES2107277	T3	1997-11-16	ES2107277				
GR3024794	T3	1998-01-30	GR3024794				
SI0709303	T1	1998-02-28	SI-709303T				
DK0709303	T3	1998-05-04	DK-709303T				
PL177445	B1	1999-11-30	PL-177445				
BRPI9504589	B1	2000-05-02	BR9504589				
CN1060736	C	2001-01-17	CN1060736C				

Abstract

(EP-709303)

Pallet container for transporting and storing liquids

The pallet container has an inner container (2) consisting of an outer, steel plate casing (13) with cover (14), a base (15) with inclined discharge floor (16), and a lid (17); and a plastics, elastic, water-tight inner casing (18). The outer casing's cover is positively locked to the base and lid by a fold, or clinch connection.

A filler-neck (26) in the outer casing's lid penetrates, from inside, the matching filler neck in the lid of the inner container's elastic inner casing. The top annular rim of the inner casing's filler neck is locked to the top rim of the outer casing's filler-neck.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

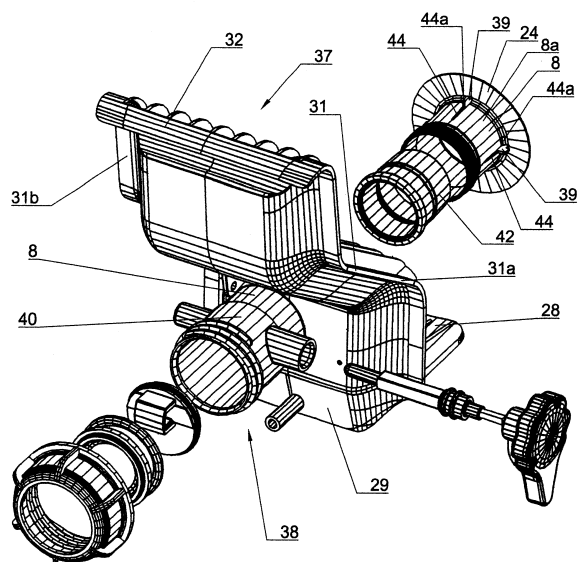
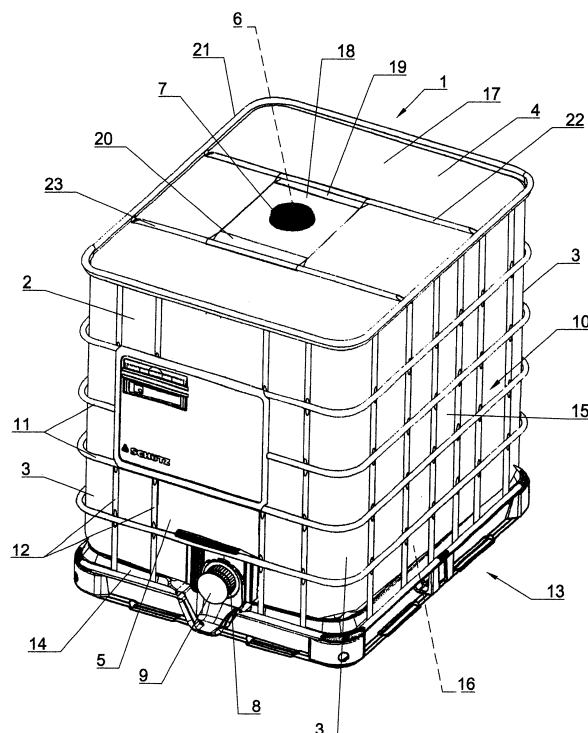
Family 43/58 - FAMPAT - ©Questel

Title

(EP1106526)

Transport and storage container for liquids

Images



Publication data including kind & date

NO20005687	D0	2000-11-10	NO200005687
ZA200006244	B	2001-01-24	ZA200006244
BRPI0006794	A1	2001-04-17	BR200006794
DE19958491	C1	2001-05-10	DE19958491
NO20005687	L	2001-06-05	NO20005687
AU7187200	A	2001-06-07	AU200071872
CN1298828	A	2001-06-13	CN1298828
EP1106526	A1	2001-06-13	EP1106526
PL344131	A1	2001-06-18	PL2000344131
JP2001171737	A	2001-06-26	JP2001171737
BR0006794	A	2001-07-17	BR200006794
US20010011655	A1	2001-08-09	US20010011655
MXPA00011465	A	2002-04-24	MX2000PA011465
US6390331	B2	2002-05-21	US6390331
RU2188786	C2	2002-09-10	RU2188786
AR026681	A1	2003-02-19	AR--26681
JP3497129	B2	2004-02-16	JP3497129
EP1106526	B1	2004-03-31	EP1106526
AT263085	T	2004-04-15	ATE263085
DE50005887	D1	2004-05-06	DE50005887
AU773070	B2	2004-05-13	AU-773070
DK1106526	T3	2004-08-02	DK1106526T
ES2214212	T3	2004-09-16	ES2214212
IN1016/CHE/2000	A	2005-10-28	IN2000CH01016
CN1240593	C	2006-02-08	CN1240593C
IN205643	B	2007-06-29	IN-205643
BRPI0006794	A2	2009-08-04	BR200006794



Abstract

(EP1106526)

Container for liquids

The transportation and storage container (1) for liquids has as principal components a flexible inner container (2) of an inner sleeve (4) of plastics foil material, a grate casing (10) of intersecting horizontal and vertical grate rods (11,12) of metal as well as a pallet like underframe (16) of metal. The flexible inner container (2) is suspended at lid rods (22,23) attached to the upper frame (21) of the grate casing (10). The discharge connection (8) of the inner container (2) is removably attached by way of a support mounting (26) to the grate casing (10) of the transportation container (1).

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

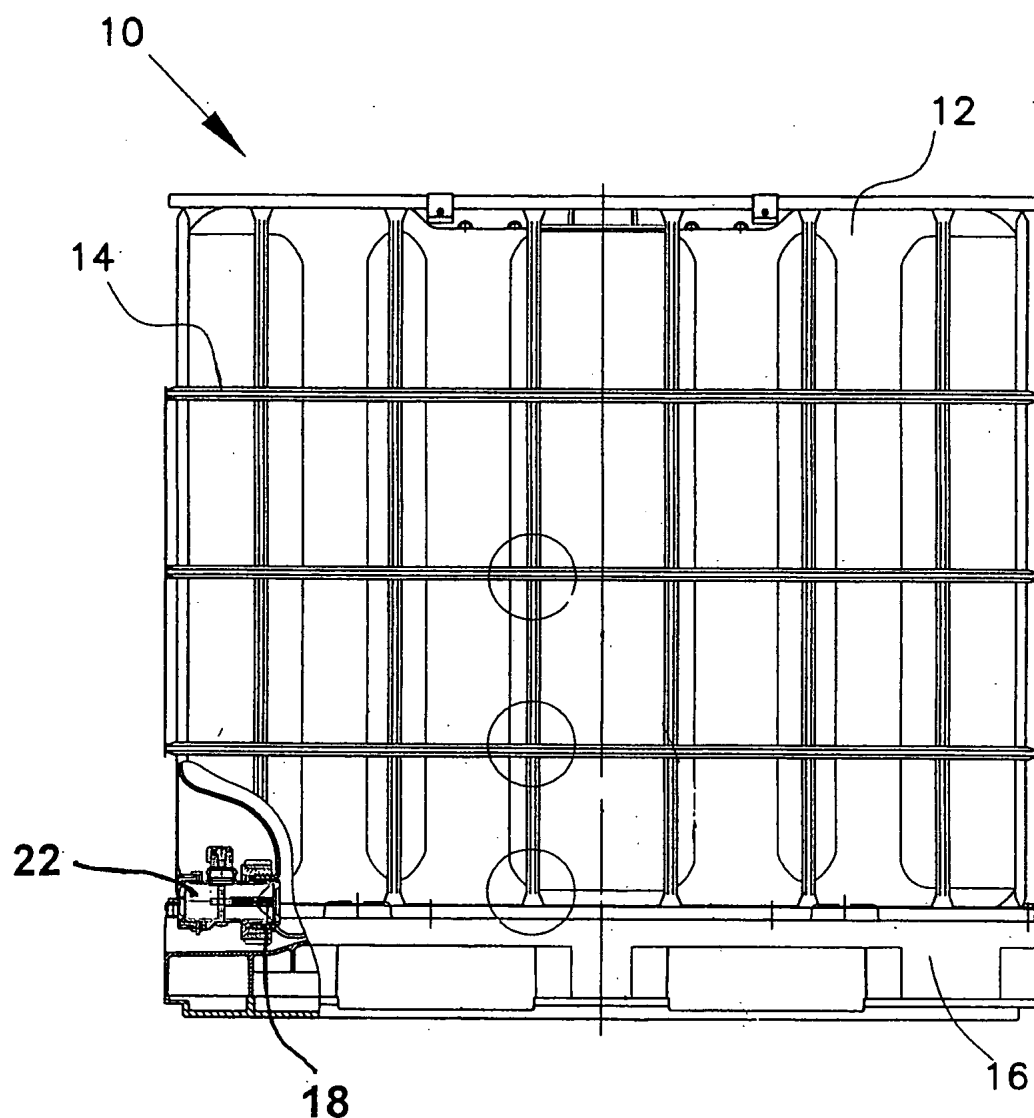
PROTECHNA

Family 44/58 - FAMPAT - ©Questel

Title

(EP1718544)

Pallet container

Images**Publication data including kind & date**

WO2005082739	A1	2005-09-09	WO200582739
CA2542500	A1	2005-09-09	CA2542500
AU2005217089	A1	2005-09-09	AU2005217089
US20060011637	A1	2006-01-19	US20060011637



DE112005000034	D2	2006-06-14	DE112005000034				
MXPA06003209	A	2006-06-23	MX2006PA003209				
IL174795	A	2006-08-20	IL-174795				
EP1718544	A1	2006-11-08	EP1718544				
CN1926030	A	2007-03-07	CN1926030				
KR20070043694	A	2007-04-25	KR20070043694				
ZA200602611	B	2007-06-27	ZA200602611				
BRPI0508086	A	2007-07-17	BR200508086				
BRPI0508086	A1	2007-07-17	BRPI0508086				
JP2007523806	A	2007-08-23	JP2007523806				
IN2602/DELNP/2006	A	2007-08-24	IN2006DN02602				
DE202005021347	U1	2007-11-29	DE202005021347				
EP1718544	B1	2009-01-07	EP1718544				
AT420041	T	2009-01-15	ATE420041				
DE502005006422	D1	2009-02-26	DE502005006422				
DK1718544	T3	2009-04-27	DK1718544T				
ES2320677	T3	2009-05-27	ES2320677				
IL174795	B	2010-04-15	IL-174795				
AU2005217089	B2	2010-07-15	AU2005217089				
KR101073003	B1	2011-10-12	KR101073003				
CN1926030	B	2011-11-09	CN1926030B				
JP4950875	B2	2012-03-16	JP4950875				
BRPI0508086	A2	2016-10-25	BR200508086				

Abstract

(EP1718544)

The invention concerns a pallet container (10) for storing and transporting liquid or free-flowing products, comprising: a thin-walled inner container (12) made of thermoplastic material; a lattice tube frame (14) that, in the form of a supporting cage, closely surrounds the plastic inner container (12) and; a base pallet (16) upon which the plastic inner container (12) rests and to which the lattice tube frame (14) is joined in a fixed manner. The plastic inner container (12) has, for withdrawing the liquid product, a calibrated tubular connecting sleeve (18) with a flange edge or external thread (20). The connecting sleeve is located to the side and at the bottom of the inner container while being approximately centered in a sidewall in the vicinity of the bottom of the inner container, and a closeable withdrawal fitting (22) can be fastened to this connecting sleeve. Screwed-on withdrawal fittings (22) can easily lead to leakages when the inserted seal ages or is attacked by an aggressive filled product or when the union nut is not screwed on tightly enough. Drawbacks like these are easily eliminated by the invention due to the fact that the withdrawal fitting (22) is, via its tubular housing (24), welded in a fixed manner to the calibrated tubular connecting sleeve (18) of the plastic inner container (12).

Inventors

SCHMIDT KLAUS PETER

WEYRAUCH DETLEV

PRZYTULLA DIETMAR

WURZER ERNST

Latest standardized assignees - inventors removed

MAUSER WERKE

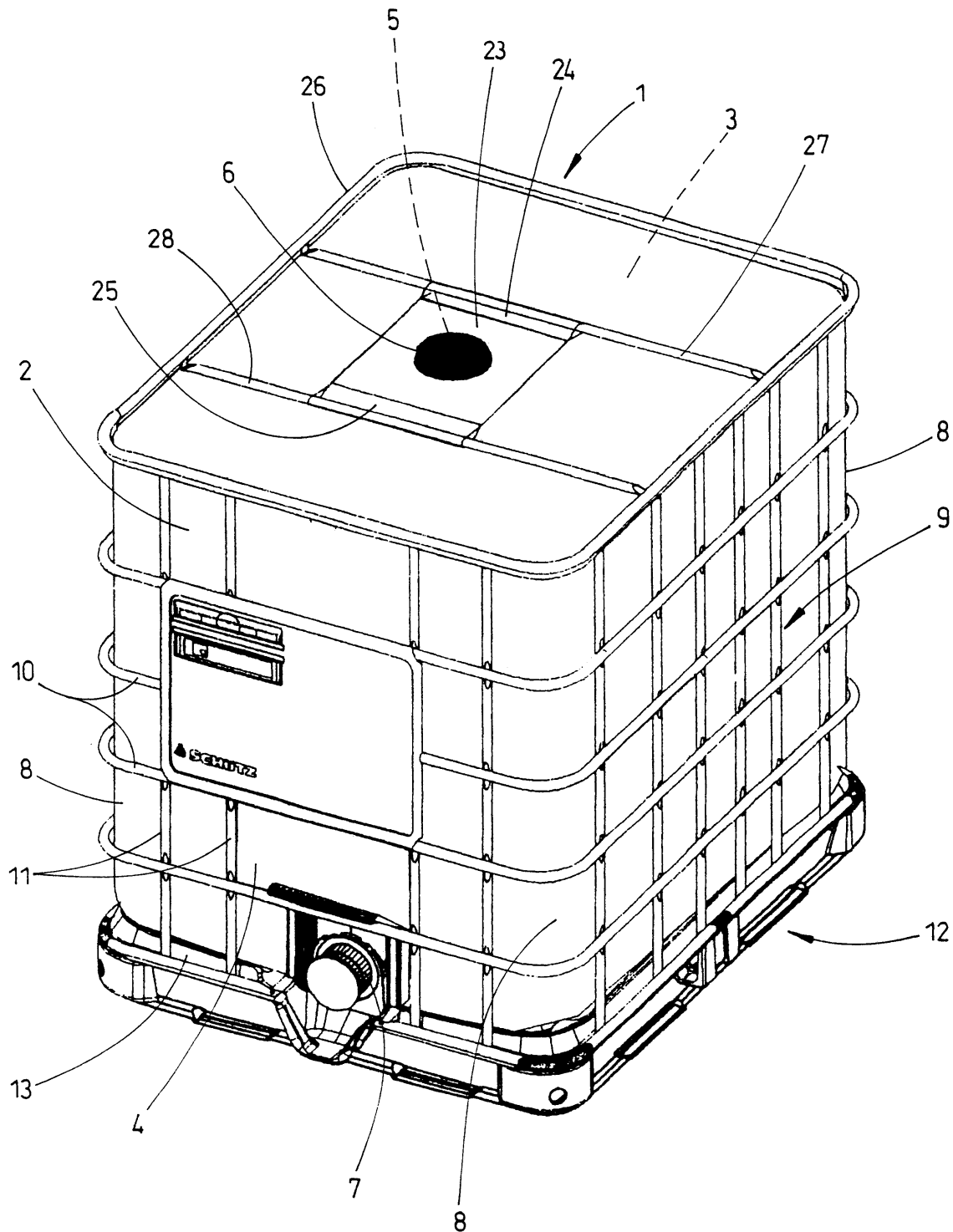
Family 45/58 - FAMPAT - ©Questel

Title

(EP1103486)

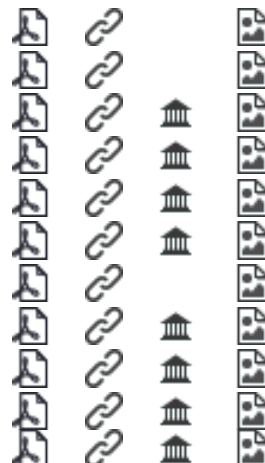
Transport and storage container for liquids and manufacturing process for the insert of said container

Images



Publication data including kind & date

NO20005500	D0	2000-11-01	NO200005500
ZA200006286	B	2001-01-24	ZA200006286
BRPI0006797	A1	2001-04-17	BR200006797
NO20005500	L	2001-05-28	NO20005500
EP1103486	A1	2001-05-30	EP1103486
AU7171000	A	2001-05-31	AU200071710
PL344071	A1	2001-06-04	PL2000344071
DE19957215	A1	2001-06-07	DE19957215
CN1298827	A	2001-06-13	CN1298827
JP2001163358	A	2001-06-19	JP2001163358



BR0006797	A	2001-07-17	BR200006797				
DE19957215	C2	2001-10-18	DE19957215				
MXPA00011466	A	2002-04-24	MX2000PA011466				
US6454113	B1	2002-09-24	US6454113				
AR026587	A1	2003-02-19	AR--26587				
AU767065	B2	2003-10-30	AU-767065				
JP3497128	B2	2004-02-16	JP3497128				
CN1144740	C	2004-04-07	CN1144740C				
EP1103486	B1	2005-02-09	EP1103486				
AT288861	T	2005-02-15	ATE288861				
DE50009464	D1	2005-03-17	DE50009464				
RU2250866	C2	2005-04-27	RU2250866				
DK1103486	T3	2005-06-13	DK1103486T				
ES2235742	T3	2005-07-16	ES2235742				
IN0992/CHE/2000	A	2007-05-18	IN2000CH00992				
IN217193	B	2008-05-23	IN-217193				
BRPI0006797	A2	2009-10-27	BR200006797				

Abstract

(EP1103486)

The transportation and storage container to liquids has, as principal components, a flexible inner container of an inner sleeve of plastics foil material and an outer sleeve of a woven material, a grate casing of horizontal and vertical intersecting grate rods of metal as well as a pallet-like underframe. The flexible container is attached to the upper frame of the grate casing of the transportation container, and the inner sleeve is positioned in the outer sleeve of the inner container.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 46/58 - FAMPAT - ©Questel

Title

(EP-893362)

transport and storage container for liquids

Images

DE29724198	U1	2000-04-13	DE29724198				
US6050437	A	2000-04-18	US6050437				
DE19731518	C2	2002-02-07	DE19731518				
CN1079357	C	2002-02-20	CN1079357C				
HK1019057	A1	2002-10-18	HK1019057				
EP0893362	B1	2003-01-02	EP-893362				
DE59806792	D1	2003-02-06	DE59806792				
DK0893362	T3	2003-04-22	DK-893362T				
ES2186056	T3	2003-05-01	ES2186056				
BRPI9802547	A1	2005-02-09	BR199802547				
JP3661917	B2	2005-04-01	JP3661917				
MY121348	A	2006-01-28	MY-121348				

Abstract

(EP-893362)

A palletised vessel (1) holds liquids during transport and storage, and has an inner polyethylene tank (2) with a base (3) and top (4) with a filling inlet (5) and screw cap (6). Liquid is drained as required through a tap-controlled (8) outlet (7). The vessel (1) is enclosed by a grid mantle (9) made of metal rods (10,11), and rests on a pallet base (12). The plastic inner tank (2) is surrounded by a sheath (19) formed of an electrically conducting material e.g. thin wire. Electrical charges which may (betaken) up while the tank (2) is filled with liquid, are discharged to the wire metal sheath (18), the outer mantle (9), the base pan (13), the corner and middle feet (15,16) and foot frame (17).

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

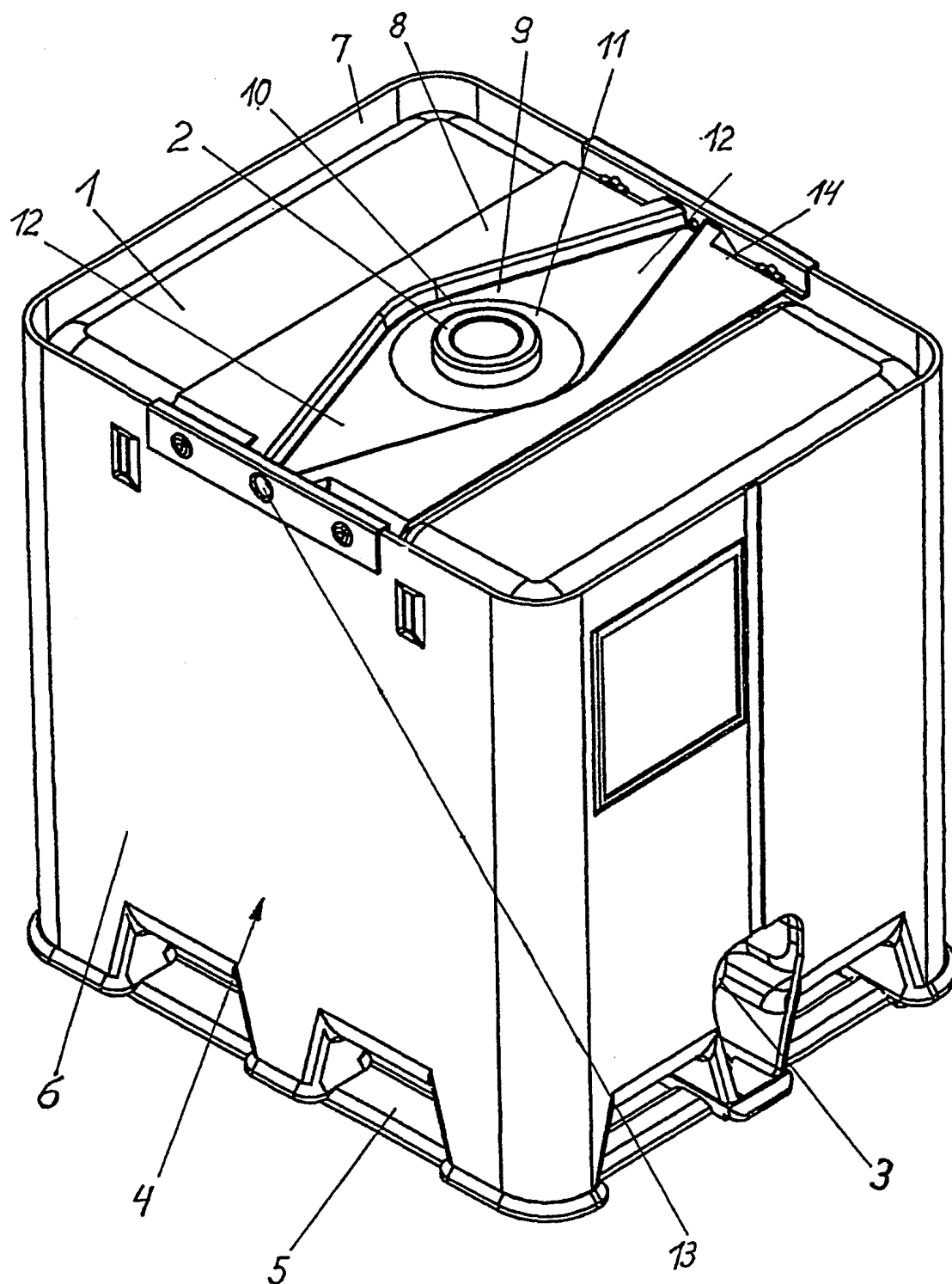
Family 47/58 - FAMPAT - ©Questel

Title

(EP1283802)

Transport and storage device

Images


Publication data including kind & date

DE20009113	U1	2000-09-14	DE20009113
WO200189942	A1	2001-11-29	WO200189942
CA2410301	A1	2002-11-21	CA2410301
KR20030007613	A	2003-01-23	KR20030007613
EP1283802	A1	2003-02-19	EP1283802
MXPA02011239	A	2003-03-10	MX2002PA011239
BR0110958	A	2003-04-15	BR200110958
BRPI0110958	A1	2003-04-15	BRPI0110958
CN1430567	A	2003-07-16	CN1430567
JP2003534207	A	2003-11-18	JP2003534207
US20040050850			



	A1	2004-03-18	US20040050850				
EP1283802	B1	2004-06-23	EP1283802				
AT269815	T	2004-07-15	ATE269815				
DE50102681	D1	2004-07-29	DE50102681				
CN1164461	C	2004-09-01	CN1164461C				
US7150373	B2	2006-12-19	US7150373				
KR100774037	B1	2007-11-06	KR100774037				
BRPI0110958	A2	2009-04-07	BR200110958				
CA2410301	C	2009-06-02	CA2410301				

Abstract

(EP1283802)

The invention relates to a device for transporting and/or storing an especially liquid medium, which comprises a relatively thin-walled plastic inner container (1) that receives the medium and an outer container (4) that encloses the inner container like a trough. At the top, said inner container (1) is provided with a filling opening that is configured as a threaded tube (2), and at the bottom, if required, with a drain opening (3). The outer container (4) consists of a pallet-type support (5) that supports the inner container (1) on its underside and a jacket (6) that adjoins the support (5). The inner container (1) is secured in the outer container (4) by means of a cover plate (8) fastened on the outer container (4).

Inventors

RICHTER GUENTER

Latest standardized assignees - inventors removed

RICHTER GUENTER

Family 48/58 - FAMPAT - ©Questel

Title

(EP-665805)

Pallet container assembly

Images

EP0665805	B1	1996-02-28	EP-665805				
AT134578	T	1996-03-15	ATE134578				
DE59301752	D1	1996-04-04	DE59301752				
IL107404	B	1996-05-14	IL-107404				
ES2085174	T3	1996-05-16	ES2085174				
JPH08505107	A	1996-06-04	JP08505107				
AU670151	B2	1996-07-04	AU-670151				
BR9307324	A	1999-06-01	BR9307324				
BRPI9307324	A1	1999-06-01	BRPI9307324				
JP3542596	B2	2004-04-09	JP3542596				

Abstract

(EP-665805)

A pallet container assembly (10) has a thin-walled plastic container (12) for liquid or fluid filling materials, a wire or pipe grating (12) which tightly surrounds the plastic container (12) as a supporting casing and which is made of horizontal and vertical grating bars (pipes) (28, 26) and a bottom pallet (16) upon which rests the plastic container (1) and to which the wire grating supporting casing (14) is fixed. In order to improve the dropping resistance of a filled pallet container (10) and to simplify the production of the closed supporting casing (14), the grating plate (18) is coupled by means of at least one sheet metal strip (20) which covers the coupling area (22) of the grating plate. The lateral outer edges (24, 26) and if required several inner sheet metal tongues (32) of the sheet metal strip (20) are each bent around one vertical grating bar (28) and firmly clinched.

Inventors

BURGDORF MAERTEN

RITTER HANS

Latest standardized assignees - inventors removed

MAUSER WERKE

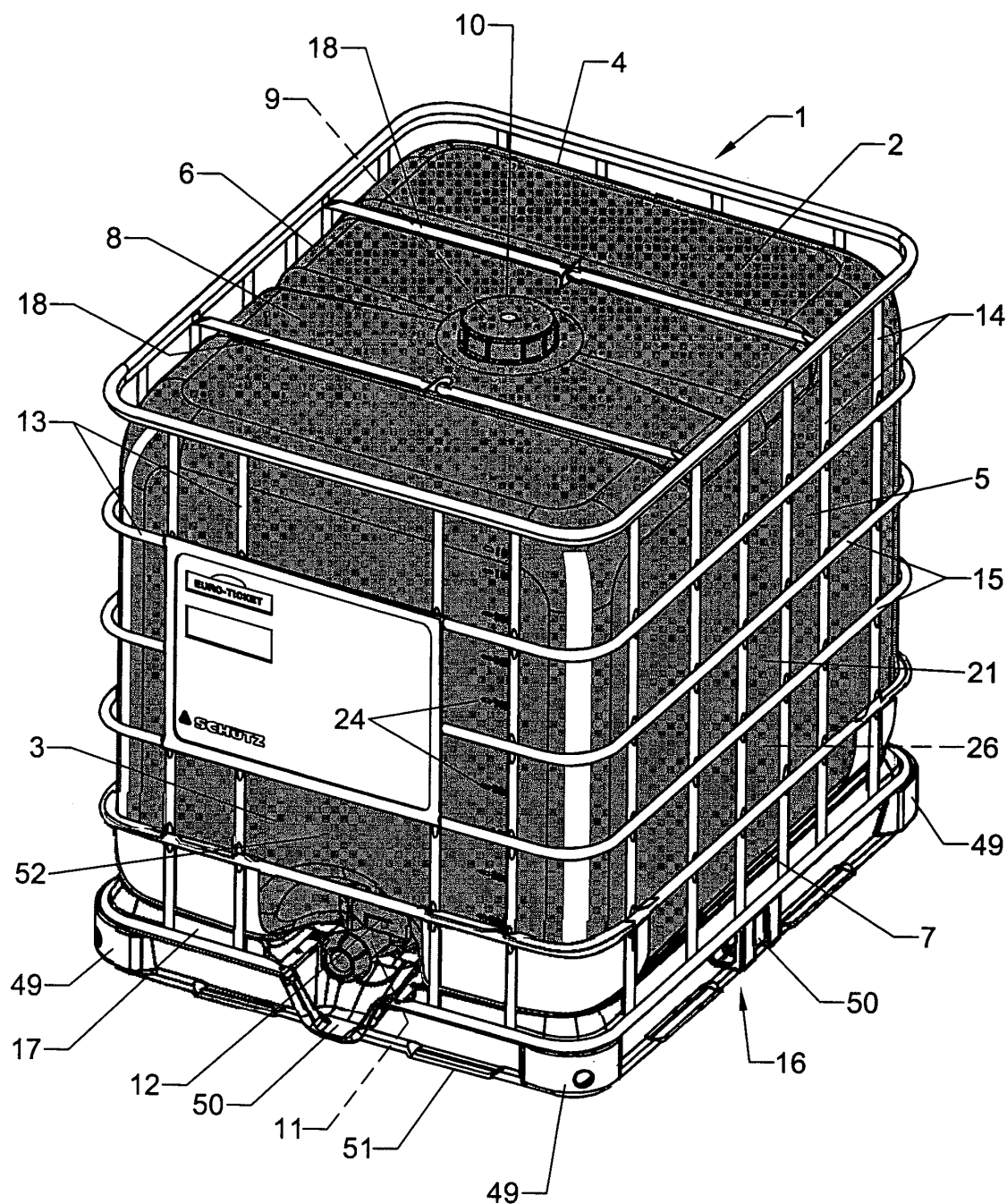
Family 49/58 - FAMPAT - ©Questel

Title

(EP1462386)

Transport and storage container for liquid

Images



Publication data including kind & date

ZA200402004	B	2004-05-11	ZA200402004
BRPI0401084	A1	2004-07-13	BR200401084
NO20041244	L	2004-09-27	NO20041244
EP1462386	A1	2004-09-29	EP1462386
CN1533955	A	2004-10-06	CN1533955
AU2004201200	A1	2004-10-14	AU2004201200
JP2004292056	A	2004-10-21	JP2004292056
DE10313481	A1	2004-10-21	DE10313481
US20040218336	A1	2004-11-04	US20040218336
BRPI0401084	A	2005-01-11	BR200401084
MXPA04002770	A	2005-04-19	MX2004PA002770
DE10313481	B4	2005-07-07	DE10313481
AR043930	A1	2005-08-17	AR--43930
AU2004201200	B2	2005-08-18	AU2004201200



RU2263618	C1	2005-11-10	RU2263618				
EP1462386	B1	2005-11-30	EP1462386				
DK1462386	T3	2005-12-27	DK1462386T				
DE502004000149	D1	2006-01-05	DE502004000149				
IN0258/CHE/2004	A	2006-01-06	IN2004CH00258				
ES2250937	T3	2006-04-16	ES2250937				
IN201506	B	2007-02-23	IN-201506				
US7210594	B2	2007-05-01	US7210594				
JP3978435	B2	2007-06-29	JP3978435				
CN100415616	C	2008-09-03	CN100415616C				
MY139175	A	2009-08-28	MY-139175				
NO328196	B1	2010-01-04	NO-328196				
BRPI0401084	A2	2014-09-02	BR200401084				
BRPI0401084	B1	2014-12-16	BR200401084				

Abstract

(EP1462386)

A transport and storage vessel for liquids comprises a parallel lower framework made of electrically conducting metal or plastic, an interchangeable inner container (2) on top and a metallic outer mantle. The outer cylindrical end (11a) of the outlet point (11) has an electrically conducting layer (24). The vessel has an electrically conducting inner layer (25) and a filling chamber (26). The inner and outer layers consist of polyethylene.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 50/58 - FAMPAT - ©Questel

Title

(EP-718210)

Stackable box pallet

Images

Abstract

(EP-718210)

The casing (3) consists of horizontal and vertical round steel bars (6,12) welded together at the intersections. A plastics holder (4) fits into the wire mesh casing which is attached to a steel pallet (2). The steel pallet has a top plate (20), a base frame (22) made of tubular or flat bars(s) and joined together at the corners (7) by steel plate corner elements (26) which have outward pointing support protuberances (27). The steel pallet's sides have support protuberances (28). When several pallet holders are stacked up, the protuberances of each top pallet holder grip over the top round steel bar or top frame of the wire mesh casing of the underneath pallet holder. The base frame of the top pallet holder's steel pallet fits into the underneath wire mesh casing.

Inventors

HERMANN FRANCIS

ROSER PHILIPPE

DECROIX CLAUDE

Latest standardized assignees - inventors removed

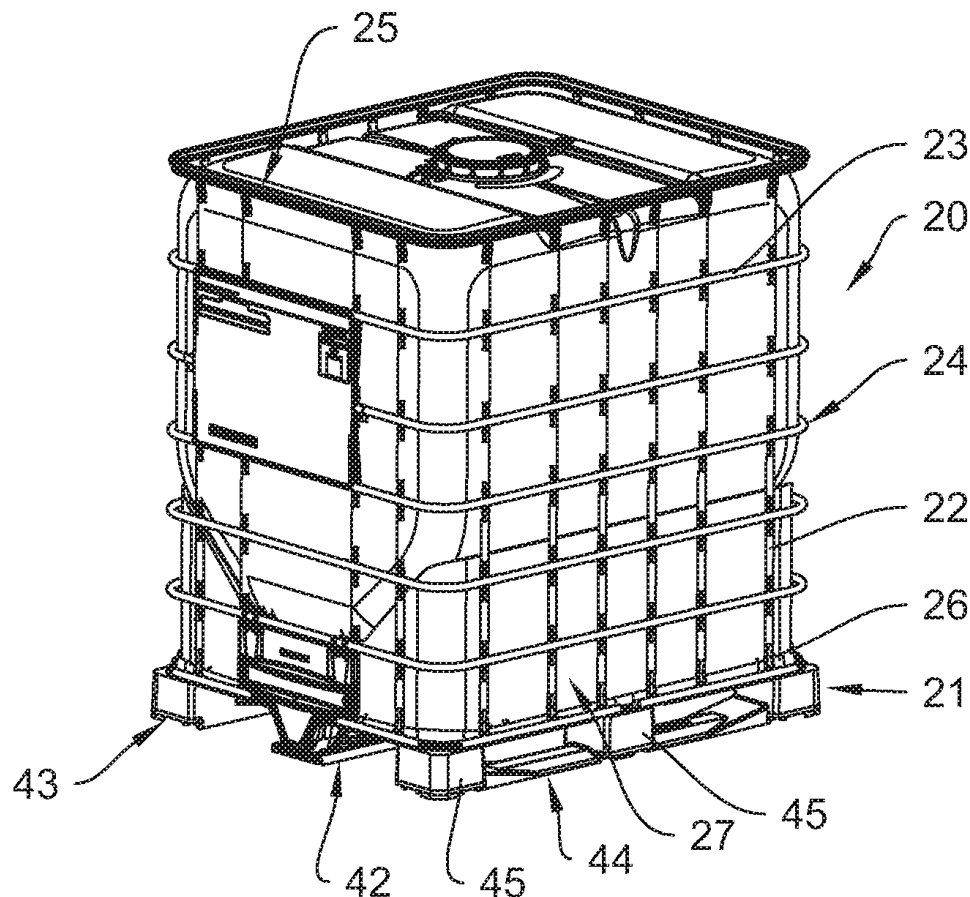
SOTRALENTZ

Family 51/58 - FAMPAT - ©Questel

Title

(EP3016884)

Inner container made of plastic and transport and storage container for liquids having such an inner container

Images

DE102013213167	A1	2015-01-22	DE102013213167				
AR096804	A1	2016-02-03	AR--96804				
CN105358446	A	2016-02-24	CN105358446				
EP3016884	A1	2016-05-11	EP3016884				
US20160368684	A1	2016-12-22	US20160368684				
EP3016884	B1	2017-06-14	EP3016884				
ES2637477	T3	2017-10-13	ES2637477				
PL3016884	T3	2017-11-30	PL3016884				
CN105358446	B	2018-04-17	CN105358446B				

Abstract

(EP3016884)

The invention relates to an inner container (25) made of plastic for transporting and storing liquids. The inner container comprises a filling opening (41) for filling the inner container in an upper base wall (33), an outlet stub (40) for connecting an outlet fitting on a front side, and a lower base wall (28) for supporting the inner container on a pallet base (26) of a transport pallet (21), which transport pallet is provided with an outer jacket (24) for accommodating the inner container. The lower base wall (28) connects two side walls (30, 31), a rear wall (32), and a front wall (29) of the inner container to each other. The outlet stub is arranged on a funnel bottom (39) of an outlet funnel (34), which outlet funnel is formed in the lower base wall. The outlet funnel comprises a front funnel wall (35), which has the outlet stub, and two lateral funnel walls (36, 37). The two lateral funnel walls are arranged in a V shape with respect to each other and at a funnel angle α with respect to the horizontal and each extend from a keel-shaped funnel base (38) to a lower edge (46, 47) of a side wall. A keel line (63) of the keel-shaped funnel base rises from the outlet stub arranged below the front wall to the rear wall at a funnel angle β with respect to the horizontal.

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

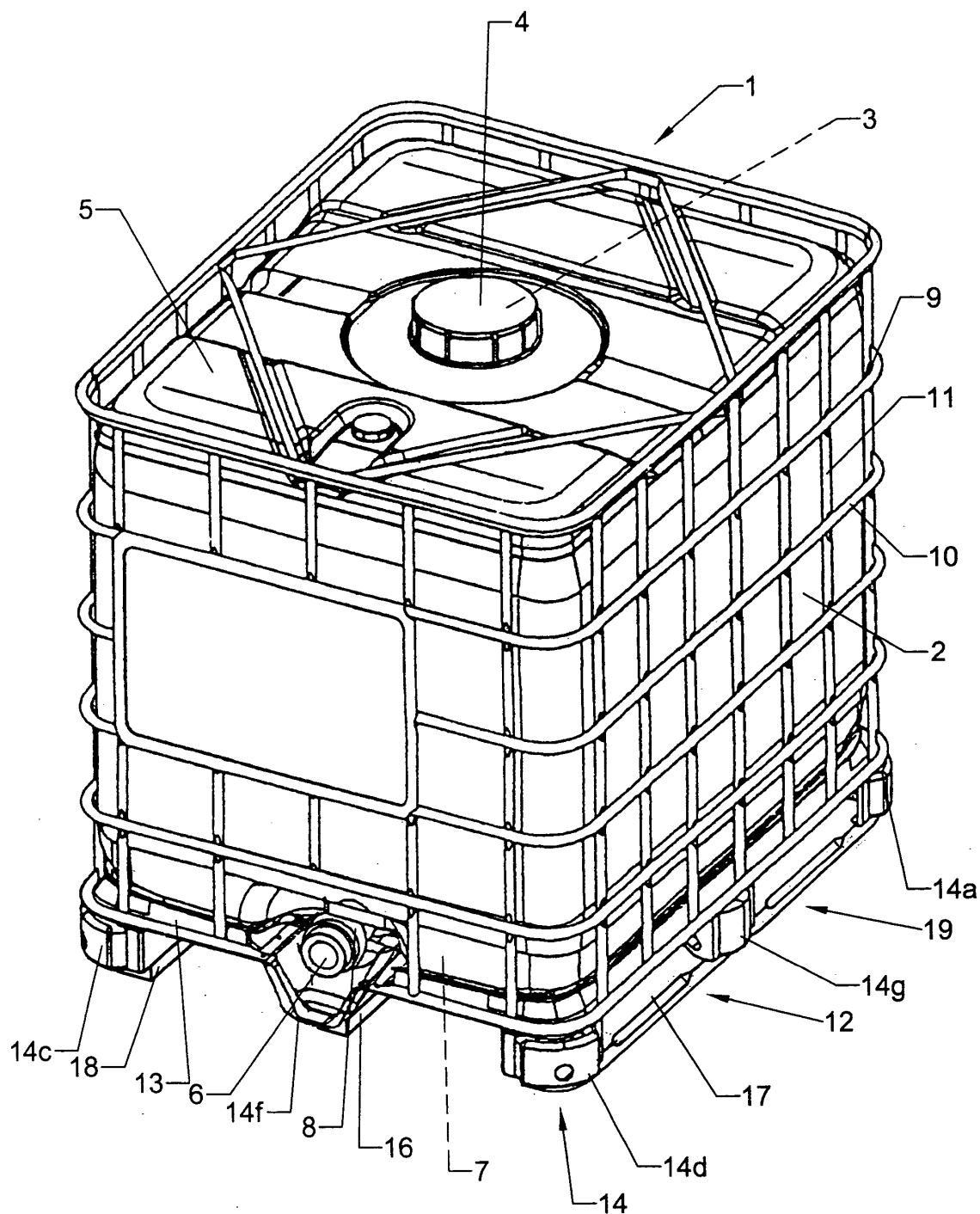
Family 52/58 - FAMPAT - ©Questel

Title

(EP1528010)

pallet-like base for a container for transporting and storing liquids

Images



Publication data including kind & date

DE20316883	U1	2004-03-11	DE20316883
BRPI0404718	A1	2004-11-30	BR200404718
ZA200408477	B	2005-01-04	ZA200408477
DE10355420	B3	2005-03-03	DE10355420
NO20044694	L	2005-05-02	NO20044694
CN1611420	A	2005-05-04	CN1611420
EP1528010	A1	2005-05-04	EP1528010
US20050092639	A1	2005-05-05	US20050092639
MXPA04010712	A	2005-05-17	MX2004PA010712
AU2004224923	A1	2005-05-19	AU2004224923
JP2005132493	A	2005-05-26	JP2005132493
BRPI0404718	A	2005-06-21	BR200404718
IN1118/CHE/2004	A	2006-01-13	IN2004CH01118



AR047622	A1	2006-02-01	AR--47622				
RU2004131608	A	2006-04-10	RU2004131608				
RU2283810	C2	2006-09-20	RU2283810				
AU2004224923	B2	2006-12-07	AU2004224923				
CN1323013	C	2007-06-27	CN1323013C				
JP4109242	B2	2008-04-11	JP4109242				
EP1528010	B1	2008-05-07	EP1528010				
AT394318	T	2008-05-15	ATE394318				
DE502004007038	D1	2008-06-19	DE502004007038				
ES2303924	T3	2008-09-01	ES2303924				
DK1528010	T3	2008-09-01	DK1528010T				
MY137236	A	2009-01-30	MY-137236				
NO331191	B1	2011-10-31	NO-331191				
IN250232	B	2011-12-23	IN-250232				
BRPI0404718	B1	2018-02-14	BR200404718				

Abstract

(EP1528010)

The square or rectangular transport container (1) for liquids consists of a sheet metal or plastics tank (2) inside a cage made of vertical (11) and horizontal (10) wires. The cage is fastened to a pallet type support with fittings at the bottom (12) similar to fittings on a normal pallet and engaging with a standard type of pallet support. There is a floor pan (13) with feet (14) at the corners (14a-d) and in the middle of the sides (14f,g). The assembly includes wooden planks (19). There is a central plank (16) and two side planks (17,18).

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 53/58 - FAMPAT - ©Questel

Title

(EP1439130)

Transport- and storage container for liquids

Images

AU2004200153	B2	2009-09-10	AU2004200153				
NO327934	B1	2009-10-26	NO-327934				
PL206614	B1	2010-08-31	PL-206614				
BRPI0400030	A2	2014-07-29	BR200400030				
BRPI0400030	B1	2014-11-11	BR200400030				

Abstract

(EP1439130)

The container (1) has a plastics inner container (2) enclosed by a outer grid mantle (13) formed from vertical and horizontal metal grid rods (14,15) and a pallet base (20) with a standard length and width. The upper ends (17) of the hollow profile vertical grid rods are pressed flat and formed into a wave profile for welding to an upper edge profile (19) having a flat top edge (44) for supporting the pallet base of a stacked container.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 54/58 - FAMPAT - ©Questel

Title

(EP1426299)

Stiffening plate for a carrying surface of a pallet

Images

PL363461	A1	2004-06-14	PL2003363461				
AU2003266457	A1	2004-07-01	AU2003266457				
JP2004182346	A	2004-07-02	JP2004182346				
CN1509947	A	2004-07-07	CN1509947				
RU2242413	C1	2004-12-20	RU2242413				
AU2003266457	B2	2005-07-14	AU2003266457				
US7017499	B2	2006-03-28	US7017499				
CN1250427	C	2006-04-12	CN1250427C				
EP1426299	B1	2007-11-14	EP1426299				
AT378262	T	2007-11-15	ATE378262				
JP4050691	B2	2007-12-07	JP4050691				
DE50308592	D1	2007-12-27	DE50308592				
MY135198	A	2008-02-29	MY-135198				
DK1426299	T3	2008-03-03	DK1426299T				
ES2295502	T3	2008-04-16	ES2295502				
NO327232	B1	2009-05-18	NO-327232				
PL205664	B1	2010-05-31	PL-205664				

Abstract

(EP1426299)

The reinforcing plate for the corner and center feet and bottom of a pallet-type substructure (12) is equipped with a stacking aid to allow several plates to be stacked one on top of the other for transporting and storing purposes. The center feet (23,24) are inclined slightly outwards to the vertical, and at least one support knob is provided on the inner side of the center feet for the support of another reinforcing plate stacked on it. The support knobs are formings formed out of the center feet.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

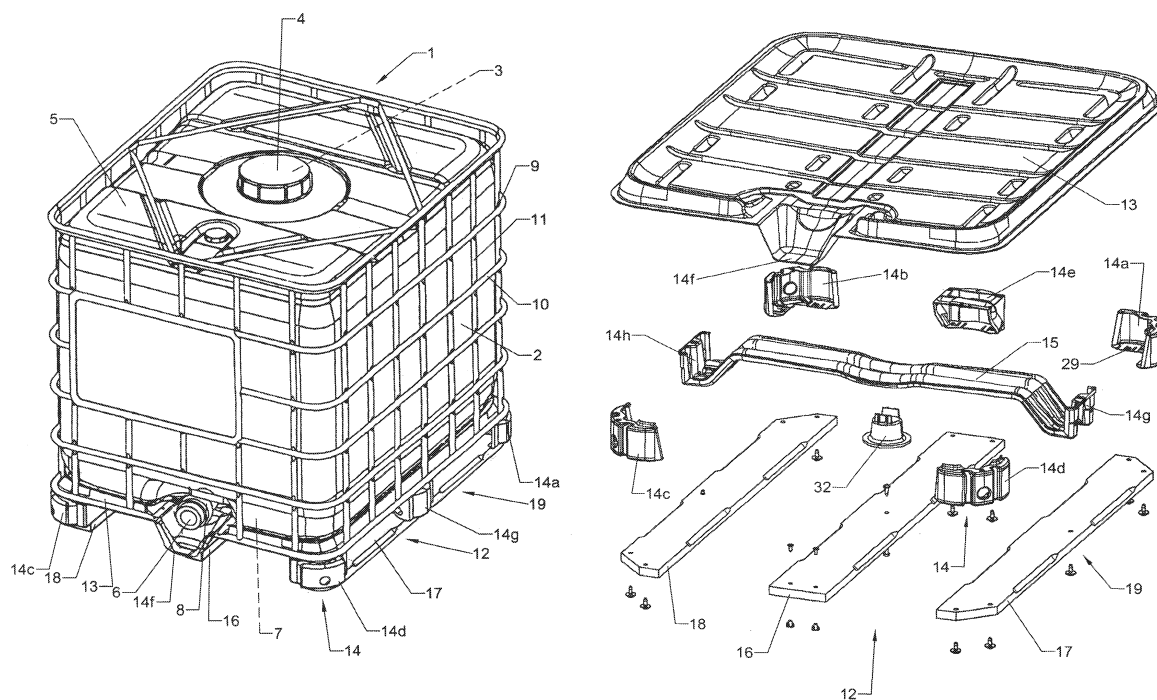
Family 55/58 - FAMPAT - ©Questel

Title

(US8505721)

Support base for transport and storage containers for liquids

Images

**Publication data including kind & date**[US20120211395](#)

A1 2012-08-23

US20120211395

[US8505721](#)

B2 2013-08-13

US8505721

**Abstract**

(US8505721)

A support base for transport and storage containers for liquids includes an inner container of plastics material and an outer jacket of a metal grid or of sheet metal which is adapted to be manipulated by a forklift, a shelf operating system or a similar transport medium, and with a bottom of metal resting on support legs of metal, a middle runner and two outer runners for supporting the inner container which is equipped with a closable filler connection and a drain connection for connection to a drain fitting. The middle runner and the two outer runners of the support base are constructed as wooden runners.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 56/58 - FAMPAT - ©Questel

Title

(EP2520504)

Palette-style subframe for transport and storage container for fluids

Images

	A1	2013-01-08	BR102012010464				
IN0799/MUM/2012	A	2013-02-01	IN2012MU00799				
RU2012116055	A	2013-10-27	RU2012116055				
CO6790235	A1	2013-11-14	CO6790235A1				
AR086263	A1	2013-12-04	AR--86263				
EP2520504	B1	2014-02-26	EP2520504				
ZA201202805	B	2014-03-26	ZA201202805				
ES2465492	T3	2014-06-05	ES2465492				
RU2525783	C2	2014-08-20	RU2525783				
KR101464404	B1	2014-11-21	KR101464404				
US8919562	B2	2014-12-30	US8919562				
AU2012201718	B2	2015-01-29	AU2012201718				
JP5706849	B2	2015-03-06	JP5706849				
CN102815440	B	2015-07-29	CN102815440B				
MY164228	A	2017-11-30	MY-164228				
BR102012010464	A2	2018-04-24	BR102012010464				

Abstract

(EP2520504)

The frame (21) has a floor (22) for supporting an inner container (11). A central foot (24) made of metal is attached to a foot frame (25) to which the floor and an outer jacket (18) of the inner container are fastened. The central foot includes a profile body comprising a U-shaped cross section. The profile body comprises a base wall, an outer journal wall and an inner journal wall. The base wall and the journal walls embody an axial edge web at axial end areas of the profile body in a plane at right angles to a longitudinal axis of the profile body.

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

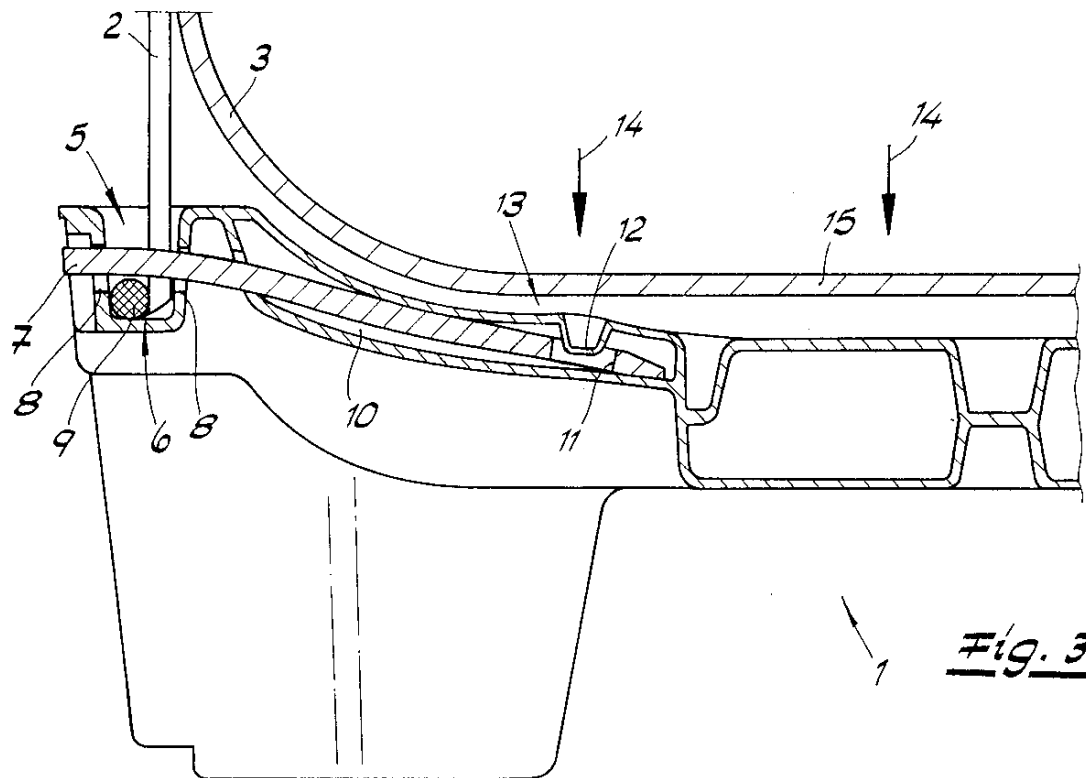
Family 57/58 - FAMPAT - ©Questel

Title

(EP-596341)

Palletized container comprising pallet, outer housing and plastic inner container.

Images



Publication data including kind & date

BRPI9304465	A1	1994-02-08	BR9304465
CA2102386	A1	1994-05-05	CA2102386
DE4237157	A1	1994-05-05	DE4237157
BR9304465	A	1994-05-10	BR9304465
EP0596341	A1	1994-05-11	EP-596341
ZA9307960	B	1994-06-01	ZA9307960
CN1089229	A	1994-07-13	CN1089229
JPH06345090	A	1994-12-20	JP06345090
EP0596341	B1	1995-07-19	EP-596341
DE59300378	D1	1995-08-24	DE59300378
ES2075753	T3	1995-10-01	ES2075753
DE4237157	C2	1996-01-25	DE4237157
BRPI9304465	B1	1998-08-25	BR9304465
CA2102386	C	1999-04-06	CA2102386
CN1044891	C	1999-09-01	CN1044891C



Abstract

(EP-596341)

A palletised container comprising a pallet (1), an outer housing (2) and a plastic inner container (3), wherein the outer housing is connected releasably to the pallet in the region of its lower edge. The inner container is inserted into the outer housing and supported on the pallet. The pallet has a peripheral receiving groove (5) for the outer housing, into which receiving groove the outer housing is inserted with its lower edge (6). The lower edge of the outer housing is fixed in the receiving groove by holding tongues (7) which are passed through cutouts (8), which are closed at the edges, in the receiving groove, engage over components of the lower edge of the outer housing, and are fastened releasably in the pallet. <IMAGE>

Inventors

DECROIX CLAUDE

SHUERT LYLE H

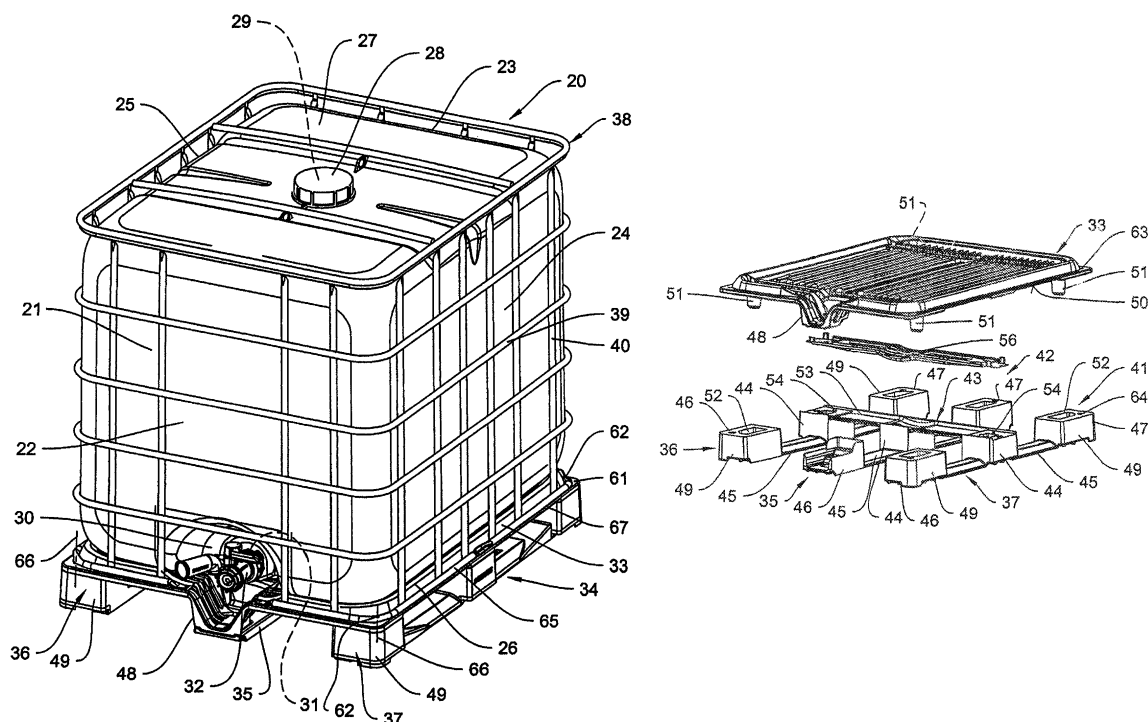
Latest standardized assignees - inventors removed

Family 58/58 - FAMPAT - ©Questel

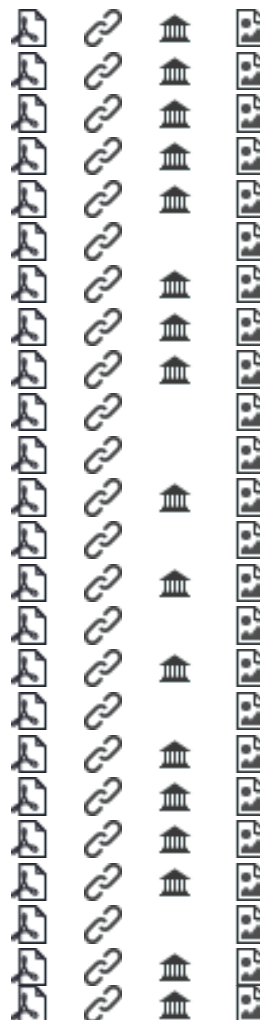
(EP2520512)

Runner pallet, in particular for transport and storage container for fluids

Images



CN102765531	A	2012-11-07	CN102765531
EP2520512	A1	2012-11-07	EP2520512
US20120279885	A1	2012-11-08	US20120279885
DE102011075266	A1	2012-11-08	DE102011075266
KR20120125175	A	2012-11-14	KR20120125175
MX2012005129	A	2012-11-26	MX2012005129
JP2012232799	A	2012-11-29	JP2012232799
BR102012010475	A1	2013-01-08	BR102012010475
IN0800/MUM/2012	A	2013-02-01	IN2012MU00800
RU2012116056	A	2013-10-27	RU2012116056
CO6790236	A1	2013-11-14	CO6790236A1
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[IN302338](#)

B 2018-10-23 IN-302338

Abstract

(EP2520512)

The pallet (34) has a pallet floor (33) supporting an inner container (21). Support feet are provided for a central skid (35) and two outer skids (36, 37) for supporting the inner container, where the central skid and the outer skids are connected to one another by a skid bridge to form a pallet base. The pallet base is handled independently from the pallet floor for establishing a non-positive plug-in connection with the pallet base. The pallet floor encompasses engagement devices assigned to the support feet to interact with assigned engagement devices of the support feet. An independent claim is also included for a liquid transport and storage container.

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

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