

100 Documents

Publication numbers	Title	Current assignees
EP3393932 A1	Transporting and storage container for liquids	PROTECHNA
EP-765820 A1	Pallet container	PROTECHNA
EP-881161 A1	Transport and storage container for liquids	PROTECHNA
EP1419980 A1	Container for fluids	SCHUETZ
EP-879771 A1	Transport and storing container for liquids	PROTECHNA
EP2426067 A1	Transport and storage container for fluids	PROTECHNA
EP-934213 A1	Pallet container	DAVIPLAST SERVICOS DE CONSULTORIA SOCIEDADE UNIPESSOAL, ...
EP1760007 A1	Transport and storage container made of plastic	PROTECHNA
EP2090520 A1	Transport and storage container for fluids	PROTECHNA
EP-711710 A2	Box-pallet	SOTRALENTZ
EP-657365 A1	Container for transport and storing of liquids	PROTECHNA
EP-509228 A2	Pallet-container	PROTECHNA
EP2096043 A1	Transport and storage container for fluids	PROTECHNA
EP1103486 A1	Transport and storage container for liquids and manufacturing process for the insert of said container	PROTECHNA
DE10161693 A1	Transport pallet for hazardous fluid has layer of heat and fire insulation between plastic lining and outer wire frame	PROTECHNA
EP1462386 A1	Transport and storage container for liquid	PROTECHNA
EP2514682 A1	Palette-style subframe for transport and storage container for fluids	PROTECHNA
DE29510064 U1	- transport and storage container for liquids	SCHUETZ WERKE
EP1319611 A1	Container for fluids	SCHUETZ
US5375741 A	Container for bulk material and its method of manufacture	ROMEO RIM
EP1283802 A1	Transport and storage device	RICHTER GUENTER
EP1568896 A2	Middle and/or corner legs of sheet metal for transport and storage containers for liquids and bulk materials	SCHUTZ
EP1422161 A2	Transport and storage container for liquids	PROTECHNA
US4947988 A	Pallet container having inner container surrounded by an outer housing of lattice bars	PROTECHNA
EP3256401 A1	Pallet-type base for transportation and storage containers for liquids	PROTECHNA
EP1354816 A1	IBC for combustible products	GREIF
EP1528010 A1	pallet-like base for a container for transporting and storing	PROTECHNA

Publication numbers	Title	Current assignees
	liquids	
DE29502485 U1	Tank for storage of liquids, in particular combustible liquids	WERIT KUNSTSTOFFWERKE W SCHNEI
EP1046596 A1	Double walled tank for oil or similar	ROTH MANFRED
EP-385111 A1	Transport and/or storage container	SOTRALENTZ
EP-239709 A1	Palletized container with a protection device formed of a bent and reinforced wire structure	SOTRALENTZ
US20120211395 A1	Support base for transport and storage containers for liquids	PROTECHNA
EP-709303 A1	Pallet container for the transport and storage of liquids	PROTECHNA
US4676373 A	Plastic pallet container	SCHNEIDER HELMHOLD
EP2433880 A1	Transport and storage container for fluids	PROTECHNA
EP-949159 A2	Transport and storage container for liquids	PROTECHNA
EP2703316 A1	Container assembly	SCHNEIDER EKKEHARD, ...
WO201720092 A1	A bunded fluids container system	SERVICE TRUCKS GLOBAL
DE29520520 U1	Pallet container with pallet, wire grid casing and blow molded thermoplastic container	SOTRALENTZ
EP1215133 A2	Transport and storage container for liquids	PROTECHNA
FR2319542 A1	PALLET CONTAINER	PROTECHNA
EP2514681 A1	Procedure for the production of a corner leg for a pallet-like frame	PROTECHNA
EP-542110 A1	Pallet-mounted container	SCHUETZ WERKE
EP1544126 A1	Pallet container for transportation and storage of liquids	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
EP1754670 A2	Transport and storage container for liquids	PROTECHNA
EP2520504 A1	Palette-style subframe for transport and storage container for fluids	PROTECHNA
EP-674470 A1	Process for producing a container made of thermoplastic, synthetic material for carrying hazardous fluid materials	SOTRALENTZ
EP2239206 A2	Removal fitting with a fitting casing made of plastic for transport and storage containers for liquids and method for producing the electrically grounded connection flange for fixing the removal fitting to the emptying support of the internal container of the transport and storage container	PROTECHNA
EP-461666 A1	Pallet-mounted container	PROTECHNA
US5628425 A	Composite storage tank having double wall characteristics	SHARP; BRUCE R.

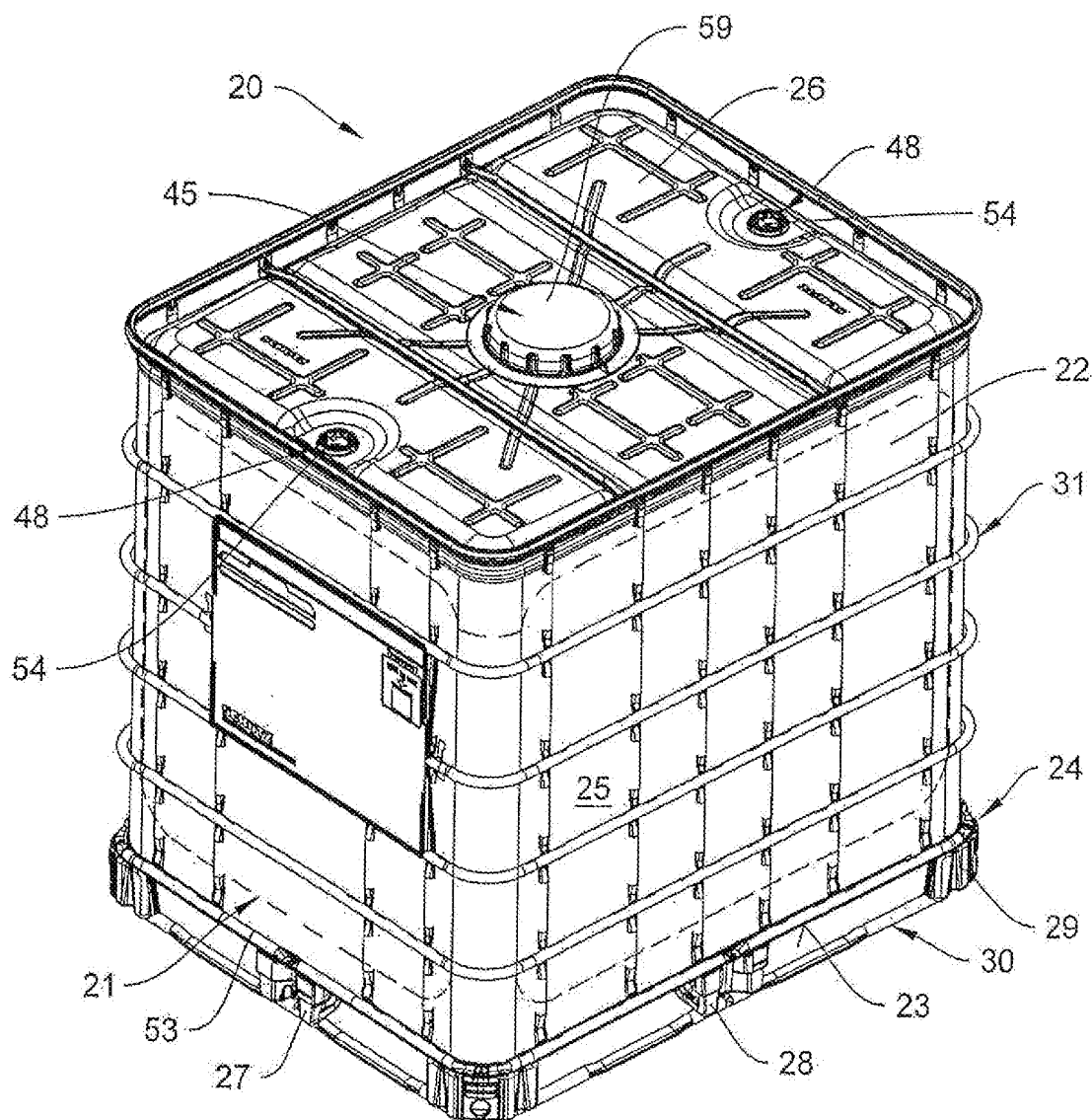
Publication numbers	Title	Current assignees
EP3256400 A1	Pallet-type base for transportation and storage containers for liquids	PROTECHNA
DE4414378 A1	Container for storing and transporting liquids	PROTECHNA
EP-893362 A1	transport and storage container for liquids	PROTECHNA
EP-857666 A1	Container for liquids	MAUSER WERKE
EP-596012 A1	Combustible liquids storage container.	TUMA JOSEF
EP2520512 A1	Runner pallet, in particular for transport and storage container for fluids	PROTECHNA
EP2096044 A1	Transport and storage container for fluids	PROTECHNA
US4648521 A	Composite metal and plastic tank	HOOVER UNIVERSAL, ...
US20080067176 A1	Collapsible bulk cage liner	GREIF
EP3016884 A1	Inner container made of plastic and transport and storage container for liquids having such an inner container	PROTECHNA
EP1826138 A1	Inner container for a pallet container	MAUSER WERKE
US2939603 A	Plastic containers	VARIOUS ASSIGNEES
DE9002099 U1		SCHUETZ WERKE
EP-656299 A2	Metallic container for transporting and storing liquids	PROTECHNA
EP2418391 A1	Tube fixing for connecting a tube with a support structure and transport and storage container with such a tube fixing	PROTECHNA
EP-546145 A1	Flexible container for bulk materials	EMPAC VERPACKUNGS
US5465865 A	Stackable bulk transport container	COOMBES; IAN R.
US3167210 A	Device for securing the filler neck of a container liner to the container	GREIG BROS COOPERAGE
EP1497188 A2	Plastic container	MAUSER WERKE
EP1535858 A1	Pallet like support for transport and storage containers for liquids	PROTECHNA
EP-243760 A2	Stackable parallelepipedic container	EDELHOFF M S T S
EP1387799 A1	Device for transporting and/or storing powder or liquid products	HONEYWELL SPECIALTY CHEMICALS
EP-673846 A1	Pallet	SCHUTZ WERKE
EP2604545 A1	Transport and storage container for fluids	PROTECHNA
US6283320 B1	Conductive plastic container for volatile liquids	HOPKINS MANUFACTURING
EP-438718 A1	Transport and/or storage container with an inner container and an outer container.	SOTRALENTZ
EP-363668 A1	Transport and/or storing container for liquids or granular materials	SOTRALENTZ
FR2613334 A1	Container for heavy loads	MAIBACH GERD

Publication numbers	Title	Current assignees
US4905853 A	Compartmented receptacle	STRAWDER GLENN G
DE8017829 U1	Container for transporting hazardous liquids	FROHN WALTER
US5244108 A	Collapsible bulk container and method of making the same	GREIF INDUSTRIAL PACKAGING & SERVICES, ...
US6294761 B1	Heat-resisting package for hot-melt adhesive	LITTMAN WALTER E.
US4090633 A	Collapsible pallet container	CARI ALL
EP1232961 A1	Pallet container for liquids	SISTEMA, ...
DE4303851 A1	Barrel for transporting corrosive substances - has non-metal elastically deformable corrosion-resistant inner container detachably connected to rigid metal casing by tension ring connectors.	MÜLLER VERPACKUNGEN
US4007694 A	Unitary plastic pallet for handling heavy powder loads	SEMI BULK SYSTEMS
DE8627708 U1		RICHTER GUENTER 5230 ALTENKIRCHEN
US3081911 A	Drainage fitting for collapsible container	SCHOLLE CONTAINER
CN2131823U Y	Anti-electrostatic plastic bucket	YAO CHUNLIN
EP1106526 A1	Transport and storage container for liquids	PROTECHNA
FR2491825 A1	CONTAINER HAS MULTILAYERED WALL	FRANCAISE DE RAFFINAGE
EP1627823 A1	Liquid container made of plastic	PROTECHNA
EP-640533 A2	Bin-type bulk fluid container.	KANEKA TEXAS
DE3009173 A1	Plastics container for liquid - is nestably held on pallet by outer container with top and/or bottom releasably secured to side wall	MAUSER WERKE
EP1250266 A1	Collapsible bulk container	SCHOELLER ALLIBERT
WO9607600 A1	Container with draining means and related method	ROPAK, ...
CA2050399 A1	Device for the storage and transport of stacked articles	MILLER GARRY
EP-704385 A2	Palletised container for the transport and storage of liquids	PROTECHNA
DE8006585 U1	Pallet container	MAUSER WERKE

Title

Transporting and storage container for liquids

Images



AU2016375640	B2	2019-09-12	AU2016375640
RU2695837	C1	2019-07-29	RU2695837
PH12018501349	A1	2019-02-18	PH12018501349
JP2019500289	A	2019-01-10	JP2019500289
US20180362237	A1	2018-12-20	US20180362237
BR112018012958	A2	2018-12-04	BR112018012958
MX2018007523	A	2018-11-14	MX2018007523
EP3393932	A1	2018-10-31	EP3393932
VN59407	A	2018-09-25	VN--59407
CO2018006402	A2	2018-08-31	CO2018006402
CN108430883	A	2018-08-21	CN108430883
IL259932	A	2018-07-31	IL-259932
SG11201805216T	A	2018-07-30	SG11201805216T



CL2018001676	A1	2018-07-27	CL1676201800				
KR20180085763	A	2018-07-27	KR20180085763				
BR112018012958	A1	2018-07-03	BR112018012958				
TWI628127	B	2018-07-01	TWI628127				
IN201827021648	A	2018-06-29	IN201827021648				
AU2016375640	A1	2018-06-28	AU2016375640				
AR107065	A1	2018-03-14	AR-107065				
TW201728512	A	2017-08-16	TW201728512				
CA3009107	A1	2017-06-29	CA3009107				
DE102015016814	A1	2017-06-29	DE102015016814				
WO2017/108288	A1	2017-06-29	WO2017108288				

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

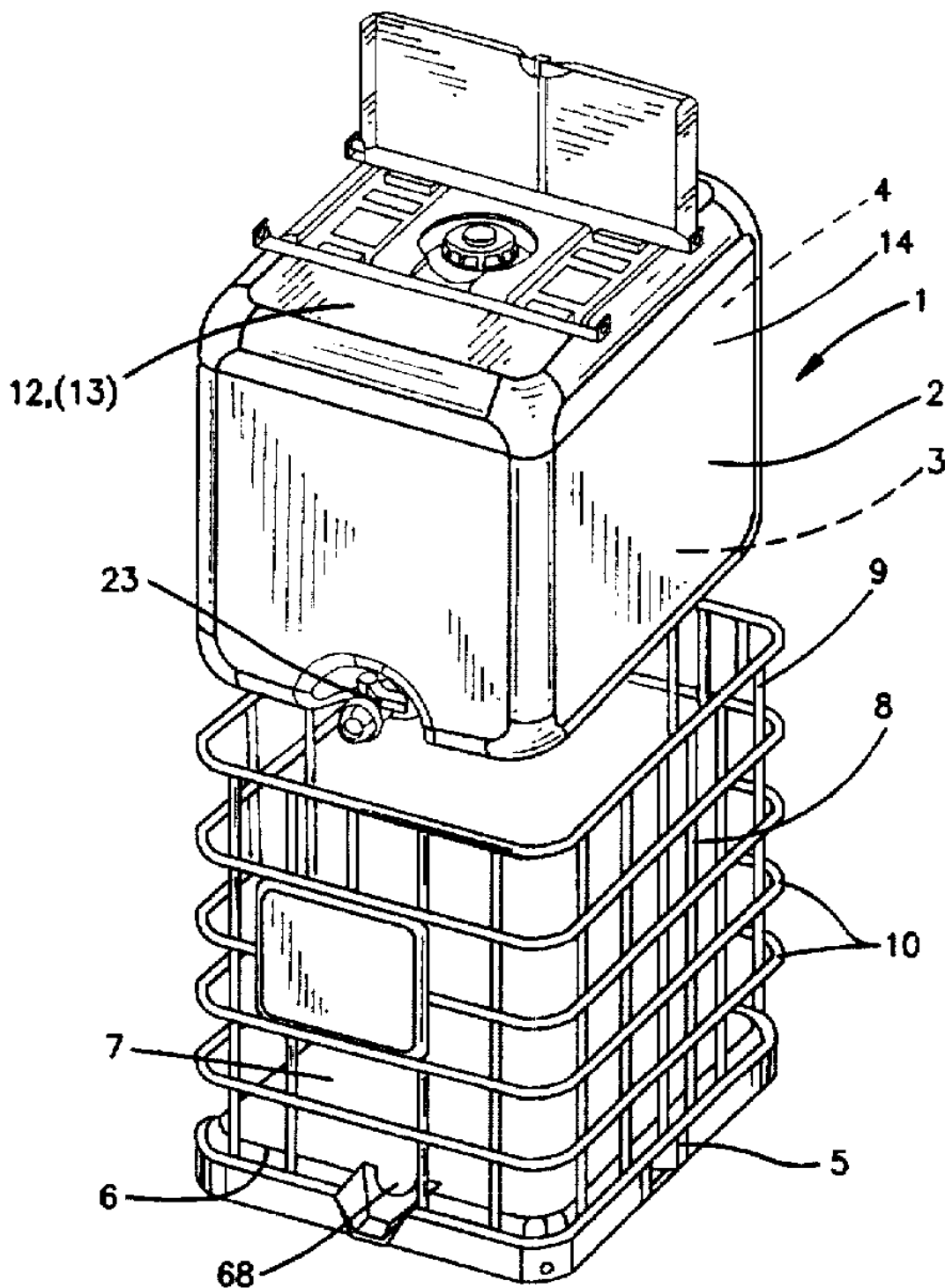
Family 2/100 - FAMPAT - ©Questel

Title

(EP-765820)

Pallet container

Images



Publication numbers with kind code & date

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



Abstract

(EP0765820)

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

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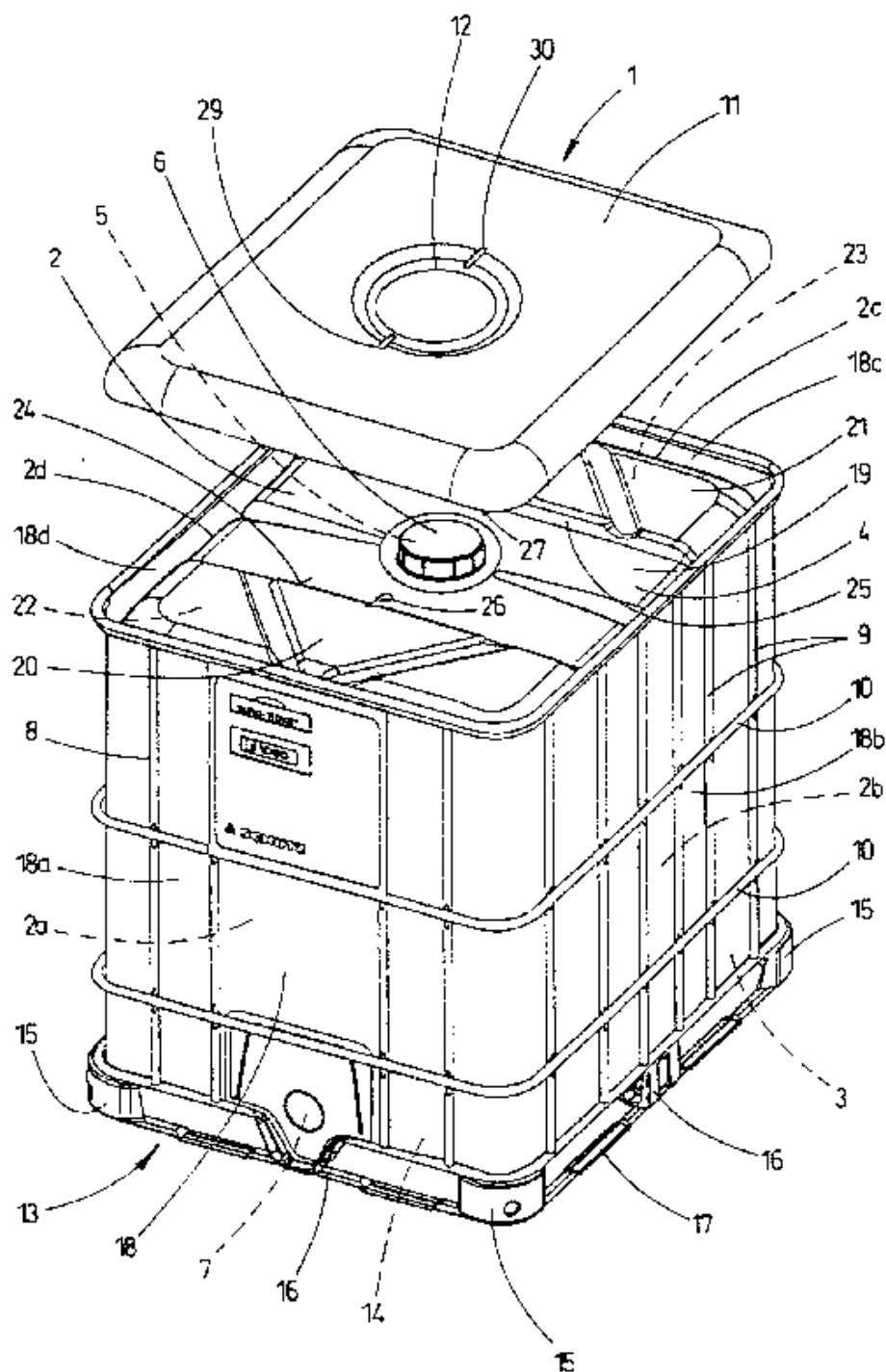
Title

(EP-881161)

Transport and storage container for liquids

Images

Fig. 1



Publication numbers with kind code & date

IN210056	B	2007-12-14	IN-210056				
IN1110/CHE/1998	A	2006-06-09	IN1998CH01110				
BRPI9801701	A1	2005-12-13	BR199801701				
JP3617769	B2	2004-11-19	JP3617769				
MY117403	A	2004-06-30	MY-117403				
RU2197418	C2	2003-01-27	RU2197418				
ES2178075	T3	2002-12-16	ES2178075				
DK0881161	T3	2002-12-09	DK-881161T				
DE59805155	D1	2002-09-19	DE59805155				
EP0881161	B1	2002-08-14	EP-881161				
HK1016948	A1	2002-07-26	HK1016948				
CN1077075	C	2002-01-02	CN1077075C				
AU722967	B2	2000-08-17	AU-722967				
AR008343	A1	1999-12-29	AR---8343				
US5979685	A	1999-11-09	US5979685				
BR9801701	A	1999-09-14	BR9801701				
DE19722194	C2	1999-03-18	DE19722194				
CN1204613	A	1999-01-13	CN1204613				
JP10329836	A	1998-12-15	JP10329836				
PL326481	A1	1998-12-07	PL98326481				
AU6804798	A	1998-12-03	AU9868047				
DE19722194	A1	1998-12-03	DE19722194				
EP0881161	A1	1998-12-02	EP-881161				
NO982375	L	1998-11-30	NO-982375				
NO982375	D0	1998-05-26	NO9802375				

Abstract

(EP0881161)

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

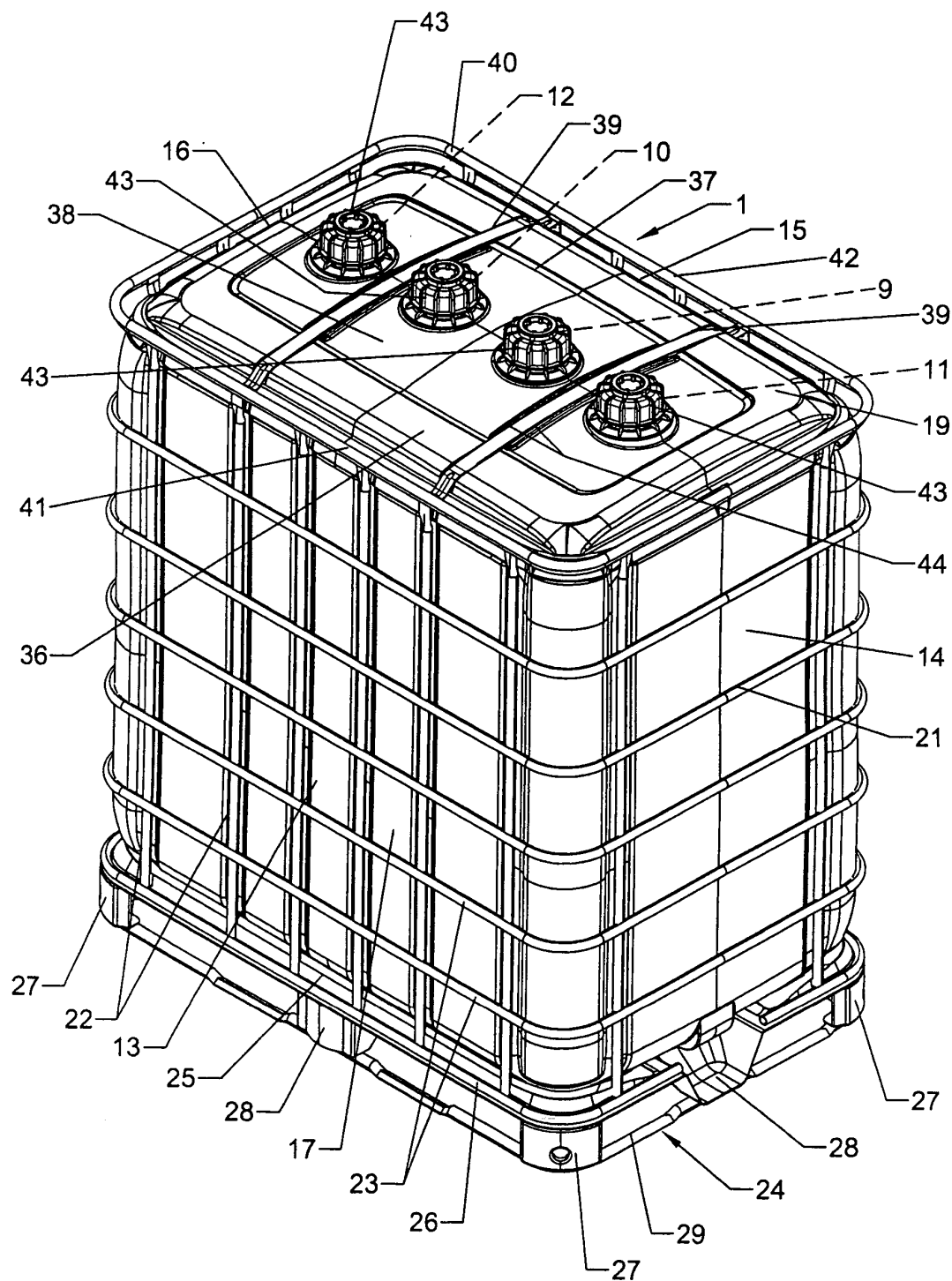
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Title

(EP1419980)

Container for fluids

Images



Publication numbers with kind code & date

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



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

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 5/100 - FAMPAT - ©Questel

Title

(EP-879771)

Transport and storing container for liquids

Images

AU739967	B2	2001-10-25	AU-739967				
DK0879771	T3	2001-01-08	DK-879771T				
ES2151305	T3	2000-12-16	ES2151305				
DE59800321	D1	2000-12-07	DE59800321				
EP0879771	B1	2000-11-02	EP-879771				
AR008342	A1	1999-12-29	AR---8342				
DE19720931	C2	1999-12-02	DE19720931				
US5971185	A	1999-10-26	US5971185				
BR9801663	A	1999-09-14	BR9801663				
JP11029144	A	1999-02-02	JP11029144				
DE19720931	A1	1998-12-03	DE19720931				
AU6597098	A	1998-11-26	AU9865970				
CN1199702	A	1998-11-25	CN1199702				
EP0879771	A1	1998-11-25	EP-879771				
NO982278	L	1998-11-23	NO-982278				
PL326378	A1	1998-11-23	PL98326378				
NO982278	D0	1998-05-19	NO9802278				

Abstract

(EP0879771)

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

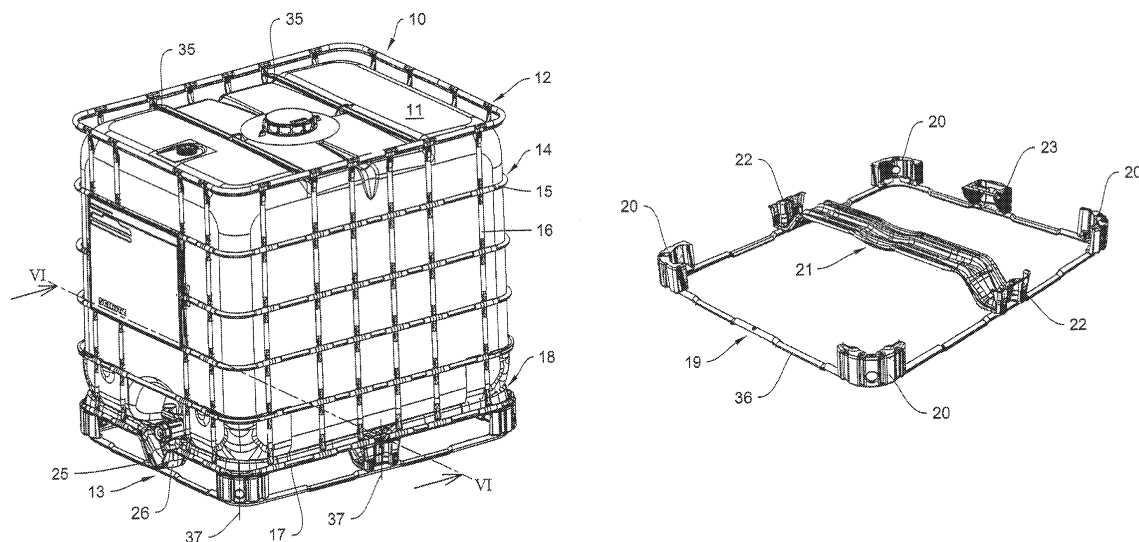
Family 6/100 - FAMPAT - ©Questel

Title

(EP2426067)

Transport and storage container for fluids

Images



Publication numbers with kind code & date

IN311133	B	2019-04-11	IN-311133
MY160469	A	2017-03-15	MY-160469
CN102442458	B	2014-12-24	CN102442458B
SA3443	B1	2014-06-08	SA---3443
KR101381697	B1	2014-04-04	KR101381697
JP5486566	B2	2014-02-28	JP5486566
RU2506210	C2	2014-02-10	RU2506210
AU2011205158	B2	2014-02-06	AU2011205158
US8640869	B2	2014-02-04	US8640869
ZA201106172	B	2013-04-24	ZA201106172
ES2400873	T3	2013-04-15	ES2400873
RU2011136251	A	2013-03-10	RU2011136251
BRPI1104599	A2	2013-01-15	BR201104599
AR082831	A1	2013-01-09	AR--82831
IN2316/MUM/2011	A	2012-12-21	IN2011MU02316
EP2426067	B1	2012-12-05	EP2426067
BRPI1104599	A1	2012-08-07	BR201104599
CN102442458	A	2012-05-09	CN102442458
AU2011205158	A1	2012-03-22	AU2011205158
JP2012056636	A	2012-03-22	JP2012056636
MX2011009112	A	2012-03-22	MX2011009112
CO6400021	A1	2012-03-15	CO6400021A1
KR20120024496	A	2012-03-14	KR20120024496
DE102010040270	A1	2012-03-08	DE102010040270
US20120055830	A1	2012-03-08	US20120055830
EP2426067	A1	2012-03-07	EP2426067



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

US6550628	B1	2003-04-22	US6550628				
DE59703076	D1	2001-04-05	DE59703076				
US6202844	B1	2001-03-20	US6202844				
AT199356	T	2001-03-15	ATE199356				
EP0934213	B1	2001-02-28	EP-934213				
JP2001500460	A	2001-01-16	JP2001500460				
EP1055613	A3	2000-12-06	EP1055613				
EP1055613	A2	2000-11-29	EP1055613				
BR9713209	A	2000-04-04	BR9713209				
BRPI9713209	A1	2000-04-04	BRPI9713209				
CN1230935	A	1999-10-06	CN1230935				
EP0934213	A1	1999-08-11	EP-934213				
TR199900423	T2	1999-06-21	TR199900423				
ID19215	A	1998-06-28	ID--19215				
AU4458497	A	1998-04-14	AU9744584				
WO98/12124	A1	1998-03-26	WO9812124				

Abstract

(EP0934213)

The invention concerns a basket to hold a plastic container in the general arrangement of a pallet container, consisting of a flat tray (3) placed on a pallet or forming the top part of a pallet serving as its bottom and a grid cover (17) connected to the edge (28) of the tray (3) serving as the wall of the basket. Said basket is constructed in such a way that the grid cover (17) has a grid joining element (19) on its bottom edge, which is supported at a lower part (11, 15) of the pallet when it is placed on the pallet or when the tray (3) forms the top part of the pallet (5) and which supports the edge (28) of the tray (3). The edge (28) of the tray (3), the grid cover (19) and the pallet or the bottom part (11, 15) of the pallet are interlocked with each other (31, 33: 35, 36). The grid cover (19) consists of an essentially U-shaped profile binding the lower ends of the grid bars (17). The tray (3) has notches on its edge (28) to insert the grid bars (17) and is supported between the grid bars (17) on the grid cover (19). The edge (28) of the tray (3) has a sharp edge (33), which is bordered by the edge (31) of the profile, which is also originally sharp edged (31, 33).

Inventors

SEDL MAYR RUDOLF

Latest standardized assignees - inventors removed

DAVIPLAST SERVICOS DE CONSULTORIA SOCIEDADE UNIPessoal

GREIF INTERNATIONAL HOLDING

Family 8/100 - FAMPAT - ©Questel

Title

(EP1760007)

Transport and storage container made of plastic

Images

[NO20063802](#)

L 2006-07-10 NO20063802

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

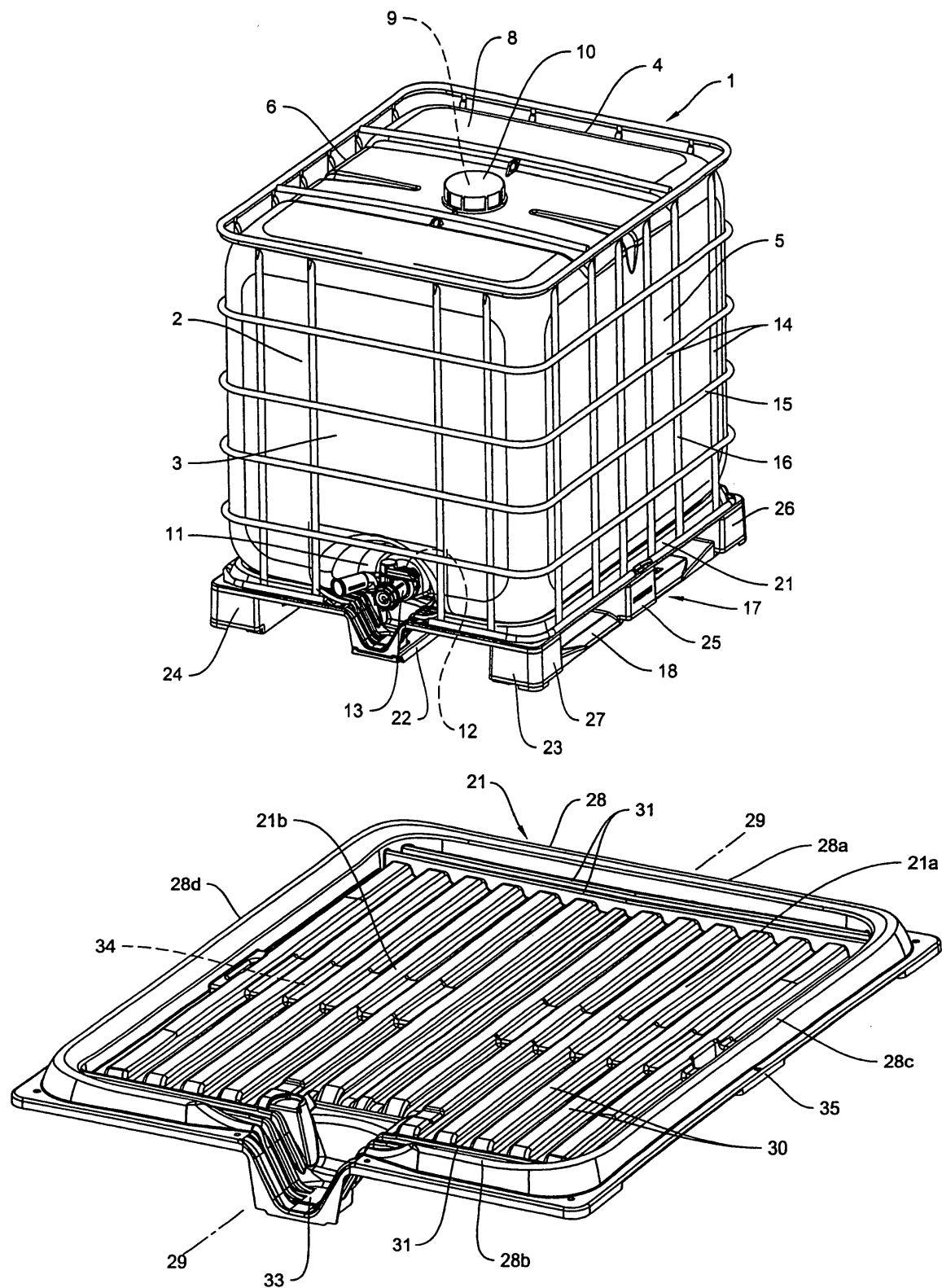
Family 9/100 - FAMPAT - ©Questel

Title

(EP2090520)

Transport and storage container for fluids

Images



Publication numbers with kind code & date

BRPI0903458	B1	2018-11-21	BR200903458
IN272956	B	2016-05-06	IN-272956
MY148156	A	2013-03-15	MY-148156
CN101508378	B	2012-09-12	CN101508378B
JP4990307	B2	2012-05-11	JP4990307
ES2365083	T3	2011-09-21	ES2365083
BRPI0903458	A2	2011-07-05	BR200903458
DE502009000507	D1	2011-05-26	DE502009000507
AU2009200572	B2	2011-05-12	AU2009200572



AT505406	T	2011-04-15	ATE505406				
EP2090520	B1	2011-04-13	EP2090520				
US7913850	B2	2011-03-29	US7913850				
ZA200900757	B	2010-10-27	ZA200900757				
RU2401781	C1	2010-10-20	RU2401781				
RU2009105121	A	2010-08-20	RU2009105121				
AR070378	A1	2010-03-31	AR--70378				
IN0299/CHE/2009	A	2009-09-11	IN2009CH00299				
US20090223848	A1	2009-09-10	US20090223848				
AU2009200572	A1	2009-09-03	AU2009200572				
MX2009001651	A	2009-08-31	MX2009001651				
DE102008009327	A1	2009-08-27	DE102008009327				
JP2009190790	A	2009-08-27	JP2009190790				
CN101508378	A	2009-08-19	CN101508378				
EP2090520	A1	2009-08-19	EP2090520				

Abstract

(EP2090520)

Liquid e.g. strong acid, transport and storage container, has base frame including base with longitudinal corrugation and transverse corrugation that are provided for reinforcing base and as support for inner container

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

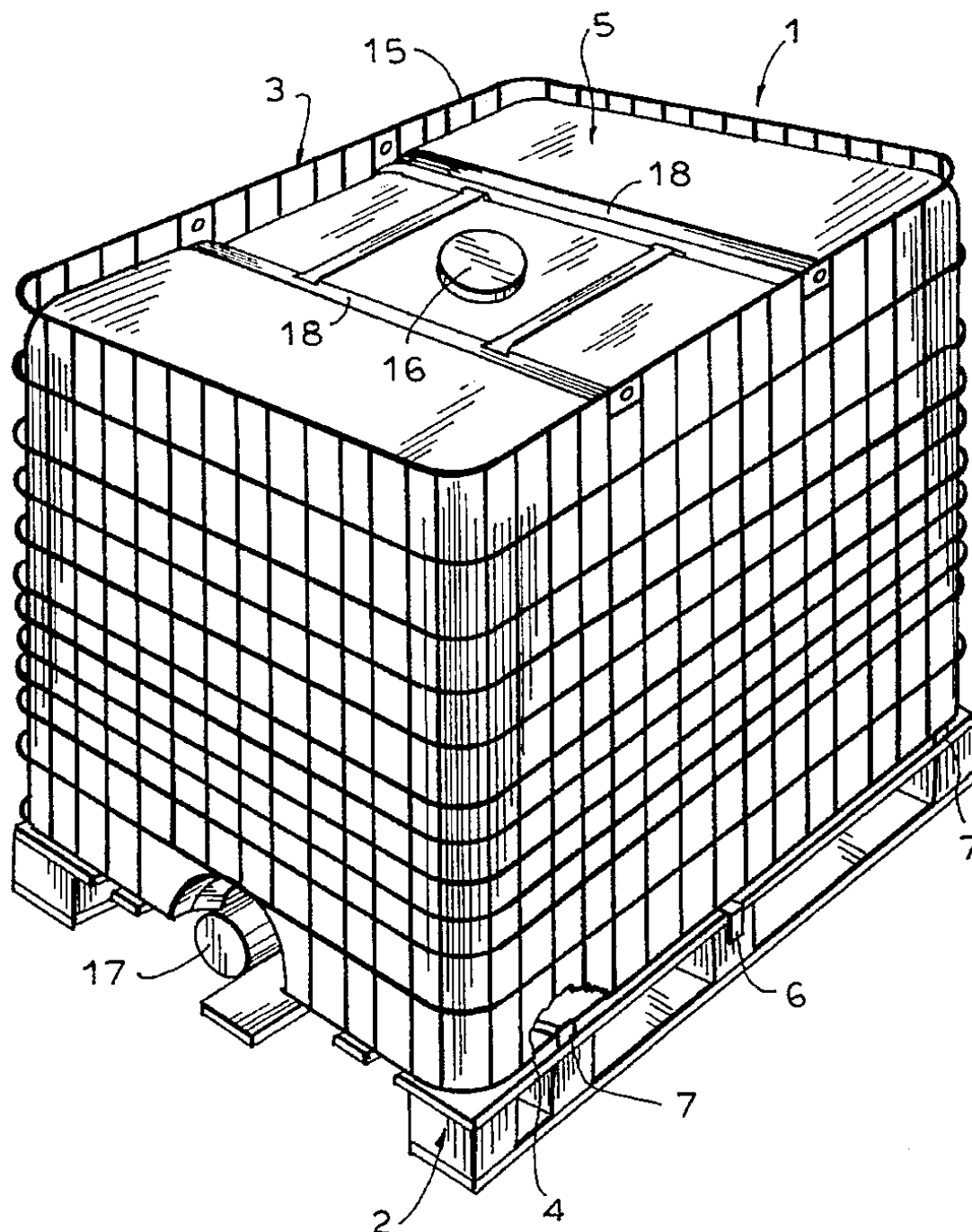
Family 10/100 - FAMPAT - ©Questel

Title

(EP-711710)

Box-pallet

Images



Publication numbers with kind code & date

CN1053421	C	2000-06-14	CN1053421C
ES2133638	T3	1999-09-16	ES2133638
DE59506270	D1	1999-07-29	DE59506270
EP0711710	B1	1999-06-23	EP-711710
US5649640	A	1997-07-22	US5649640
EP0711710	A3	1997-01-29	EP-711710
CN1130141	A	1996-09-04	CN1130141
ZA9509562	B	1996-06-06	ZA9509562
EP0711710	A2	1996-05-15	EP-711710
DE9417965	U1	1995-01-19	DE9417965



Abstract

(EP0711710)

The wire mesh outer casing (3) is joined to the wooden pallet (2) by metal fixtures (6,7) gripping over the bottom edge

frame (4) and also joined to the wooden pallet. At least one of the fixtures consists of a flat steel cross-bar (8) running across the wooden pallet from one pallet edge to the other and screwed (9) to the wooden pallet. Near the ends of the flat steel cross-bar are bridge shaped pieces (10) open towards the pallet and gripping over the bottom edge frame of the wire mesh outer casing. The bridge shaped pieces are closed by a bolt (12) inserted into holes (11) in the ridges and gripping under the bottom edge frame.

Inventors

HERMANN FRANCIS

DOLVET FRANCK

Latest standardized assignees - inventors removed

SOTRALENTZ

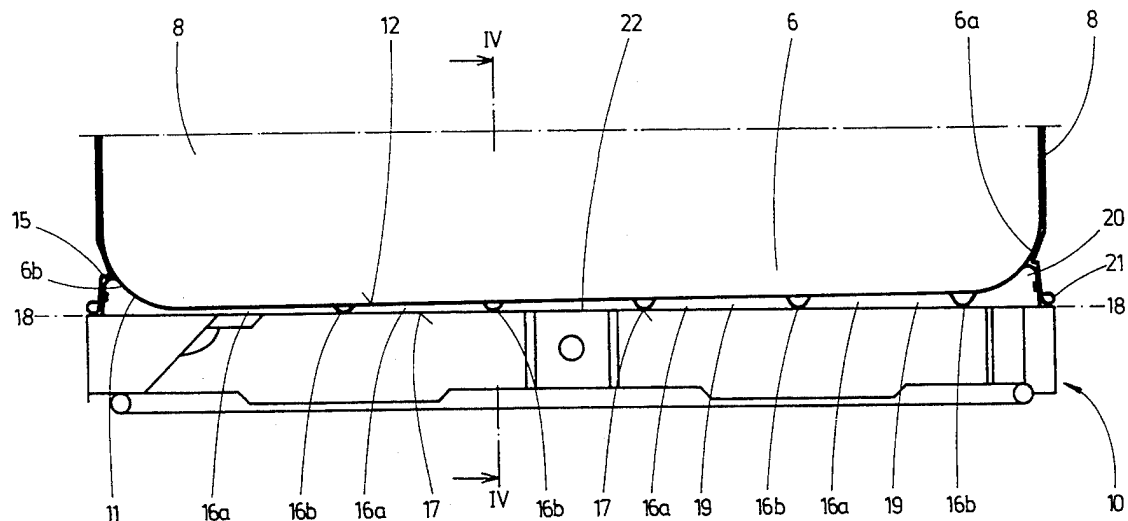
Family 11/100 - FAMPAT - ©Questel

Title

(EP-657365)

Container for transport and storing of liquids

Images



Publication numbers with kind code & date

CN1056583	C	2000-09-20	CN1056583C
BRPI9404863	B1	2000-01-25	BR9404863
NO306985	B1	2000-01-24	NO-306985
PL175449	B1	1998-12-31	PL-175449
DK0657365	T3	1998-09-23	DK-657365T
DE4341539	C2	1998-07-09	DE4341539
ES2111830	T3	1998-03-16	ES2111830
DE59405228	D1	1998-03-12	DE59405228
AT162994	T	1998-02-15	ATE162994
EP0657365	B1	1998-02-04	EP-657365
CA2136380	C	1997-12-02	CA2136380
JP2676189	B2	1997-11-12	JP2676189
RU2089477	C1	1997-09-10	RU2089477
AU681457	B2	1997-08-28	AU-681457
YU70194	A	1997-07-31	YU9400701
HU213486	B	1997-07-28	HU-213486
HRP940971	A2	1996-12-31	HRP940971
RU94043326	A	1996-10-20	RU94043326



RU94043326	A1	1996-10-20	RU94043326				
LV11160	B	1996-08-20	LV--11160				
LV11160	A	1996-04-20	LV--11160				
EE9400217	A	1996-02-15	EE9400217				
CN1114628	A	1996-01-10	CN1114628				
JP07300188	A	1995-11-14	JP07300188				
US5447250	A	1995-09-05	US5447250				
HUT68867	A	1995-08-28	HU-T68867				
ZA9409515	B	1995-08-14	ZA9409515				
BR9404863	A	1995-08-01	BR9404863				
TW252085	B	1995-07-21	TW-252085				
KR950017668	A	1995-07-20	KR19950017668				
SK149194	A3	1995-07-11	SK9401491				
AU8020394	A	1995-06-15	AU9480203				
CZ304794	A3	1995-06-14	CZ9403047				
EP0657365	A1	1995-06-14	EP-657365				
PL306083	A1	1995-06-12	PL94306083				
DE4341539	A1	1995-06-08	DE4341539				
CA2136380	A1	1995-06-07	CA2136380				
NO944682	L	1995-06-07	NO-944682				
IL111858	A	1995-03-15	IL-111858				
HU9403487	D0	1995-02-28	HU9403487				
BRPI9404863	A1	1995-02-14	BR9404863				
NO944682	D0	1994-12-05	NO9404682				

Abstract

(EP0657365)

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 12/100 - FAMPAT - ©Questel

Title

(EP-509228)

Pallet-container

Images

US5316174	A	1994-05-31	US5316174				
EP0509228	A3	1994-05-18	EP-509228				
PT8916	T	1994-04-29	PT---8916T				
US5253777	A	1993-10-19	US5253777				
JP05077832	A	1993-03-30	JP05077832				
DE4206945	C1	1993-03-11	DE4206945				
BR9200871	A	1992-11-17	BR9200871				
BRPI9200871	A1	1992-11-17	BRPI9200871				
PL293798	A1	1992-11-16	PL92293798				
IL101226	A	1992-11-15	IL-101226				
CN1066036	A	1992-11-11	CN1066036				
EP0509228	A2	1992-10-21	EP-509228				
KR920017914	A	1992-10-21	KR19920017914				
CS75992	A3	1992-10-14	CS9200759				
MX9201138	A	1992-10-01	MX9201138				
IE920816	A1	1992-09-23	IE9200816				
CA2060346	A1	1992-09-16	CA2060346				
NO920949	L	1992-09-16	NO-920949				
HU9200830	D0	1992-05-28	HU9200830				
NO920949	D0	1992-03-11	NO9200949				

Abstract

(EP0509228)

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

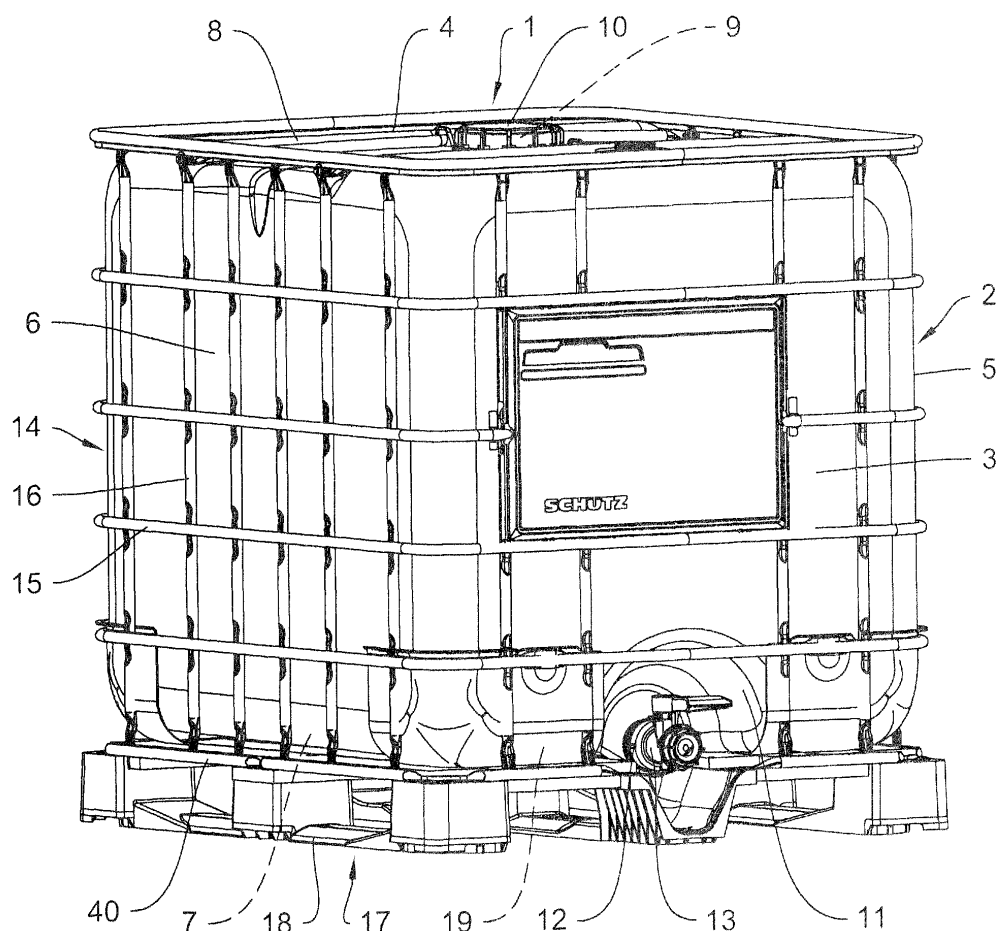
Family 13/100 - FAMPAT - ©Questel

Title

(EP2096043)

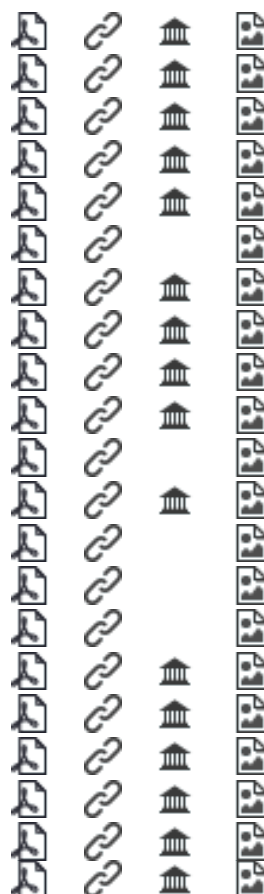
Transport and storage container for fluids

Images



Publication numbers with kind code & date

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



CN101519150	A	2009-09-02	CN101519150
EP2096043	A1	2009-09-02	EP2096043
MX2009001650	A	2009-08-31	MX2009001650

**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

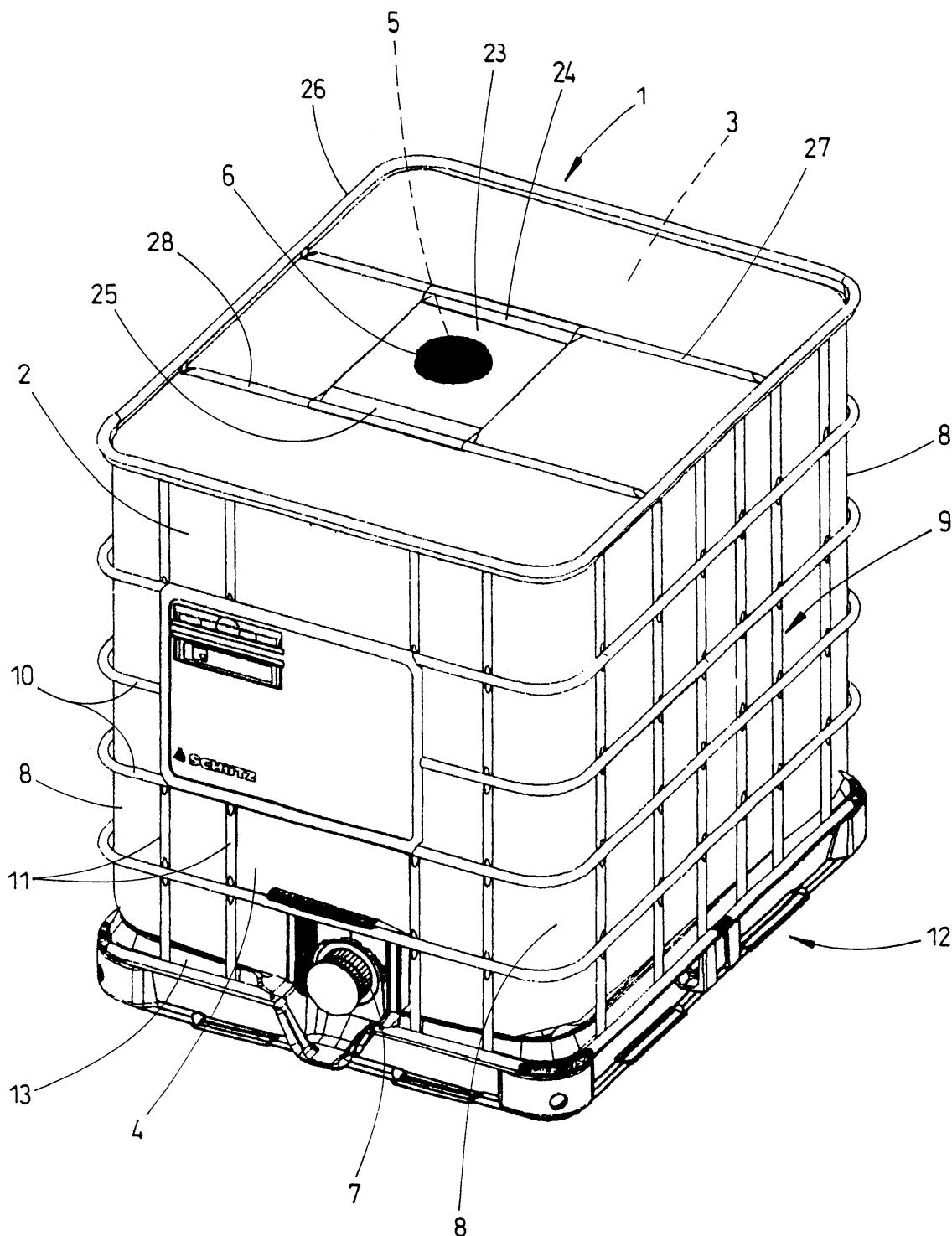
Family 14/100 - FAMPAT - ©Questel

Title

(EP1103486)

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

Images



Publication numbers with kind code & date

BRPI0006797	A2	2009-10-27	BR200006797
IN217193	B	2008-05-23	IN-217193
IN0992/CHE/2000	A	2007-05-18	IN2000CH00992
ES2235742	T3	2005-07-16	ES2235742
DK1103486	T3	2005-06-13	DK1103486T
RU2250866	C2	2005-04-27	RU2250866
DE50009464	D1	2005-03-17	DE50009464
AT288861	T	2005-02-15	ATE288861
EP1103486	B1	2005-02-09	EP1103486
CN1144740	C	2004-04-07	CN1144740C
JP3497128	B2	2004-02-16	JP3497128
AU767065			



	B2	2003-10-30	AU-767065				
AR026587	A1	2003-02-19	AR--26587				
US6454113	B1	2002-09-24	US6454113				
MXPA00011466	A	2002-04-24	MX2000PA011466				
DE19957215	C2	2001-10-18	DE19957215				
BR0006797	A	2001-07-17	BR200006797				
JP2001163358	A	2001-06-19	JP2001163358				
CN1298827	A	2001-06-13	CN1298827				
DE19957215	A1	2001-06-07	DE19957215				
PL344071	A1	2001-06-04	PL2000344071				
AU7171000	A	2001-05-31	AU200071710				
EP1103486	A1	2001-05-30	EP1103486				
NO20005500	L	2001-05-28	NO20005500				
BRPI0006797	A1	2001-04-17	BR200006797				
ZA200006286	B	2001-01-24	ZA200006286				
NO20005500	D0	2000-11-01	NO200005500				

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

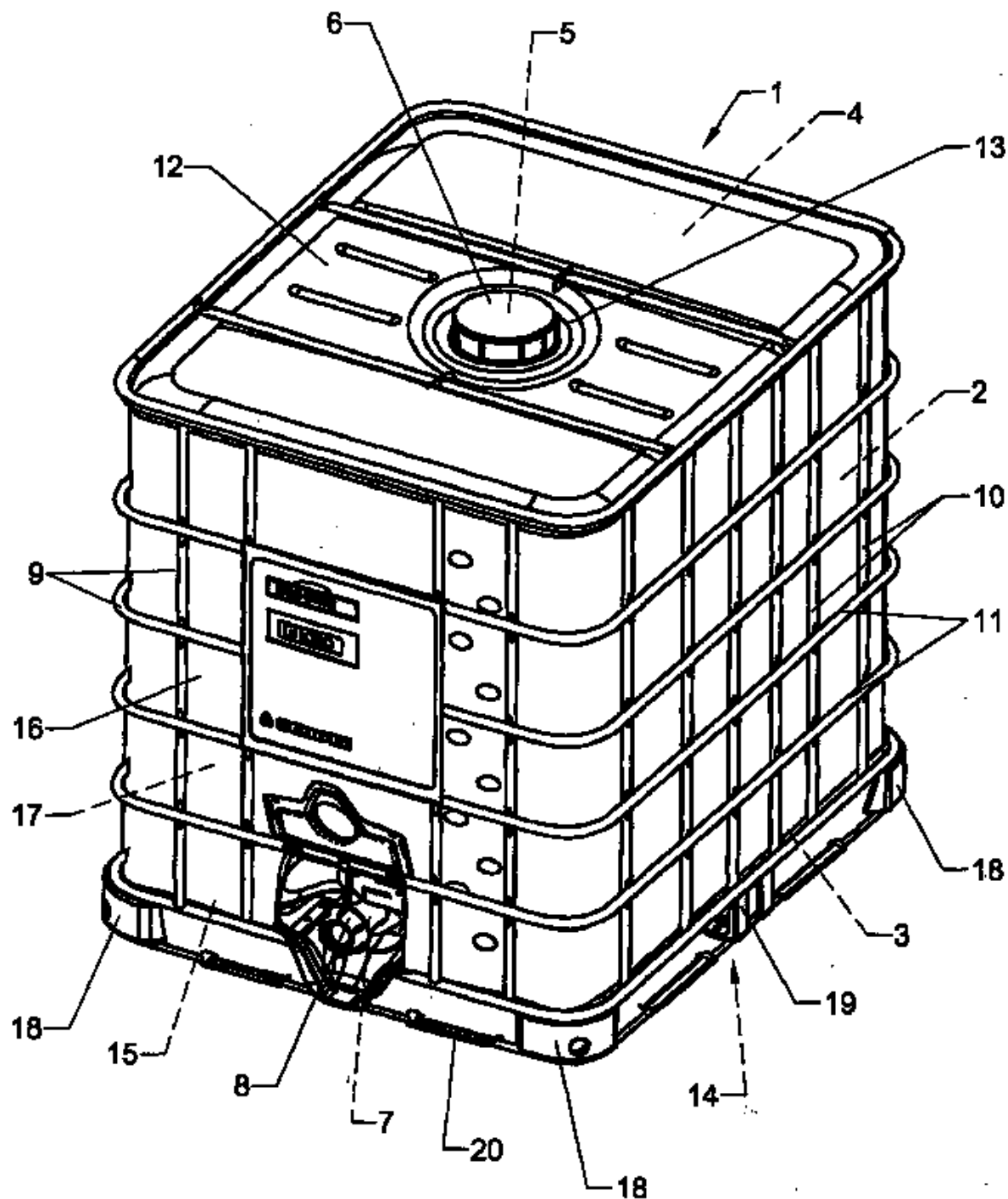
Family 15/100 - FAMPAT - ©Questel

Title

(DE10161693)

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

Images



Publication numbers with kind code & 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)

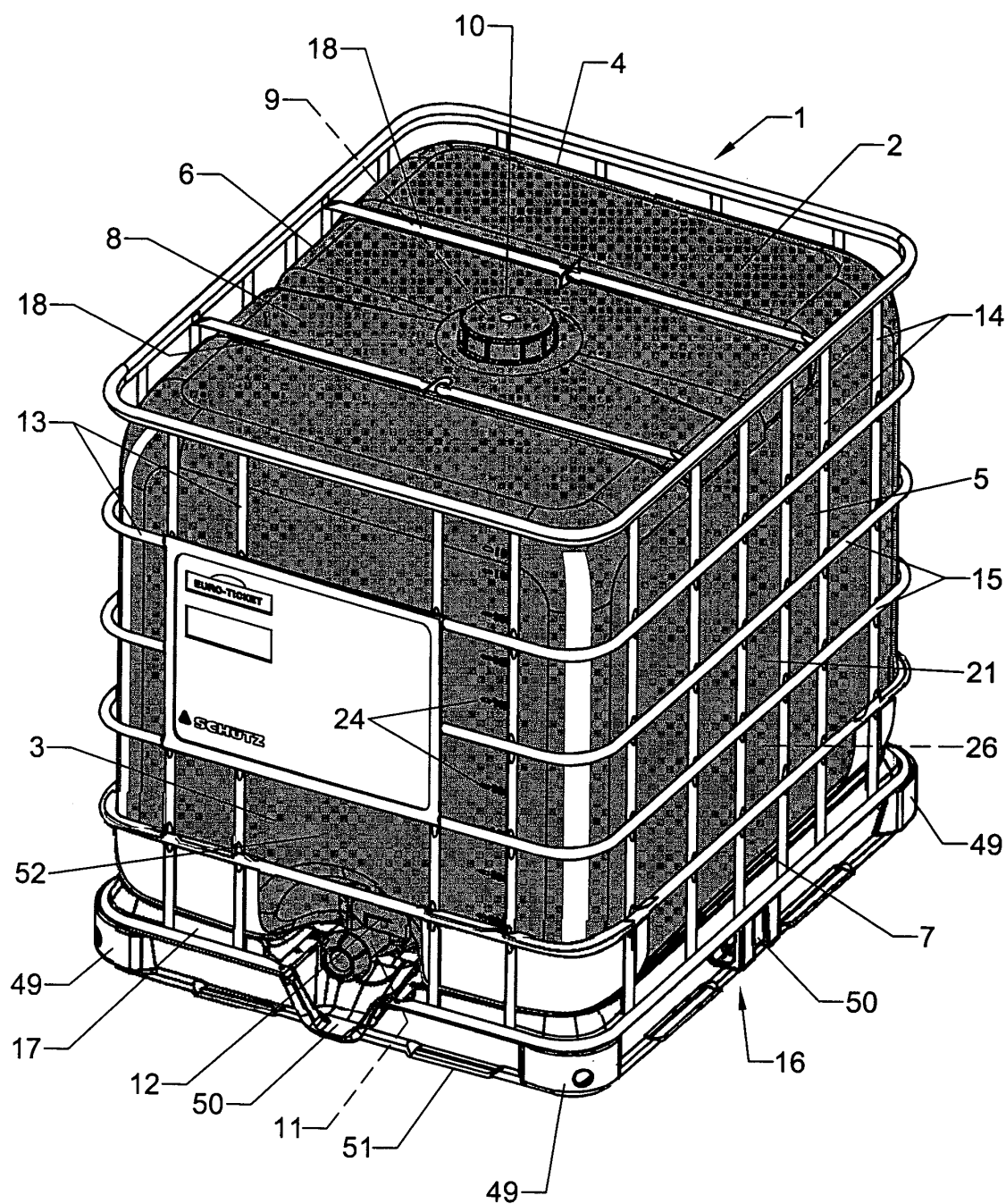
Latest standardized assignees - inventors removed

PROTECHNA

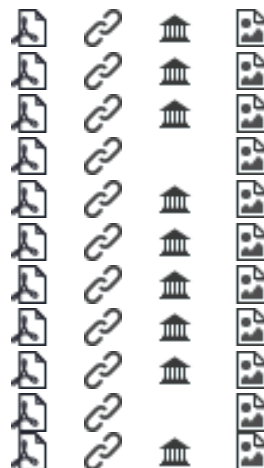
Family 16/100 - FAMPAT - ©Questel

Title

Images



BRPI0401084	B1	2014-12-16	BR200401084
BRPI0401084	A2	2014-09-02	BR200401084
NO328196	B1	2010-01-04	NO-328196
MY139175	A	2009-08-28	MY-139175
CN100415616	C	2008-09-03	CN100415616C
JP3978435	B2	2007-06-29	JP3978435
US7210594	B2	2007-05-01	US7210594
IN201506	B	2007-02-23	IN-201506
ES2250937	T3	2006-04-16	ES2250937
PL1462386	T3	2006-02-28	PL1462386



IN0258/CHE/2004	A	2006-01-06	IN2004CH00258
DE502004000149	D1	2006-01-05	DE502004000149
DK1462386	T3	2005-12-27	DK1462386T
EP1462386	B1	2005-11-30	EP1462386
RU2263618	C1	2005-11-10	RU2263618
AU2004201200	B2	2005-08-18	AU2004201200
AR043930	A1	2005-08-17	AR--43930
DE10313481	B4	2005-07-07	DE10313481
MXPA04002770	A	2005-04-19	MX2004PA002770
BRPI0401084	A	2005-01-11	BR200401084
US20040218336	A1	2004-11-04	US20040218336
DE10313481	A1	2004-10-21	DE10313481
JP2004292056	A	2004-10-21	JP2004292056
AU2004201200	A1	2004-10-14	AU2004201200
CN1533955	A	2004-10-06	CN1533955
EP1462386	A1	2004-09-29	EP1462386
NO20041244	L	2004-09-27	NO20041244
BRPI0401084	A1	2004-07-13	BR200401084
ZA200402004	B	2004-05-11	ZA200402004



Abstract

(EP1462386)

Transport and storage vessel for liquids comprises a parallel lower framework made of electrically conducting metal or plastic and an interchangeable inner container

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

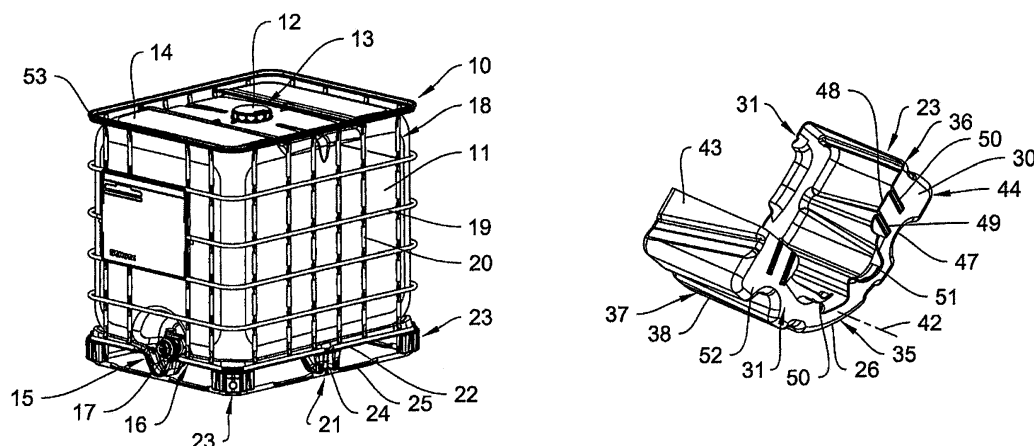
Family 17/100 - FAMPAT - ©Questel

Title

(EP2514682)

Palette-style subframe for transport and storage container for fluids

Images



Publication numbers with kind code & date

CN102745383	B	2015-09-16	CN102745383B				
AU2012202047	B2	2014-11-20	AU2012202047				
RU2524340	C2	2014-07-27	RU2524340				
ES2465491	T3	2014-06-05	ES2465491				
KR101394836	B1	2014-05-13	KR101394836				
US8708150	B2	2014-04-29	US8708150				
ZA201202773	B	2014-03-26	ZA201202773				
EP2514682	B1	2014-02-26	EP2514682				
IN1176/MUM/2012	A	2013-12-20	IN2012MU01176				
AR086104	A1	2013-11-20	AR--86104				
CO6780223	A1	2013-10-31	CO6780223A1				
RU2012114725	A	2013-10-27	RU2012114725				
BR102012009035	A2	2013-06-04	BR102012009035				
JP5272093	B2	2013-05-17	JP5272093				
US20130098801	A1	2013-04-25	US20130098801				
JP2012224399	A	2012-11-15	JP2012224399				
AU2012202047	A1	2012-11-01	AU2012202047				
BR102012009035	A1	2012-10-30	BR102012009035				
KR20120118431	A	2012-10-26	KR20120118431				
MX2012004458	A	2012-10-26	MX2012004458				
CN102745383	A	2012-10-24	CN102745383				
EP2514682	A1	2012-10-24	EP2514682				
DE102011007587	A1	2012-10-18	DE102011007587				

Abstract

(EP2514682)

The frame has a bottom portion (22) supporting a plastic inner container of transport and storage containers. Corner feet (23) comprise a corner foot body with a front wall (26), and partial bodies. A lower supporting surface of each partial body comprises a connection region that connects the feet with a foot frame (25). Stop tabs are arranged between a peripheral edge (28) of the front wall and the connecting region to define a distance between the peripheral edge and a support edge for supporting the frame on an outer jacket (18) of each container. The jacket is made of metal mesh/sheet.

(From EP2514682 A1)

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

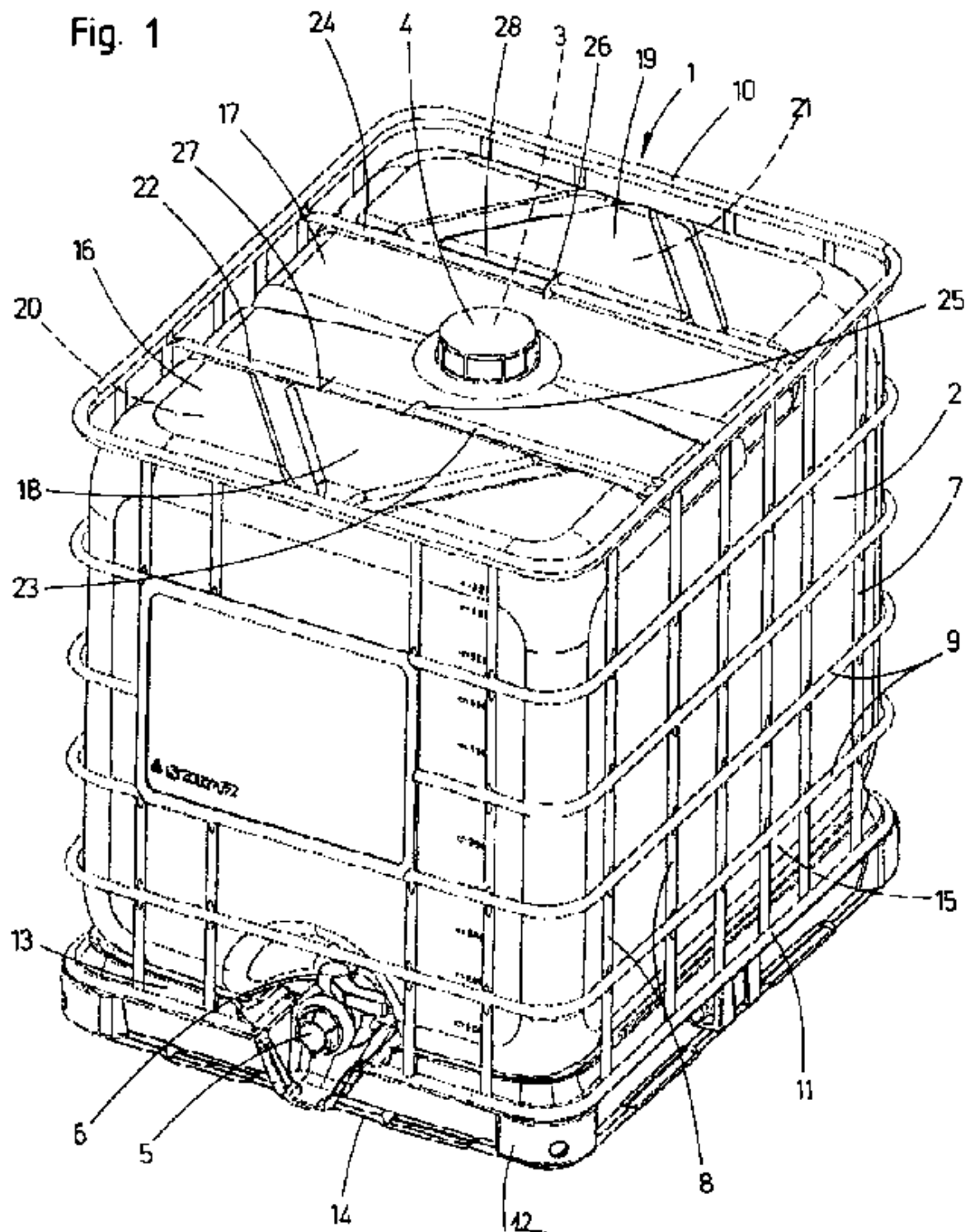
Family 18/100 - FAMPAT - ©Questel

Title

(DE29510064)

- transport and storage container for liquids

Images

**Publication numbers with kind code & date**[DE29510064](#)

U1 1995-08-03 DE29510064

**Latest standardized assignees - inventors removed**

SCHUETZ WERKE

Family 19/100 - FAMPAT - ©Questel

Title

(EP1319611)

Container for fluids

Images

[NO20025807](#)

D0 2002-12-03 NO200205807

[DE20120169](#)

U1 2002-03-28 DE20120169

**Abstract**

(EP1319611)

A polypropylene storage tank (1) for combustible liquids such as used oil, heating oil and diesel has two discrete and interlocking containers (2a,2b). The containers are blow-moulded and have vertical side-grooves which interlock with the dual-purpose steel framed base (19) stand and liquid trap. The assembled tank is strengthened by an upright strap (17).

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

SCHUETZ

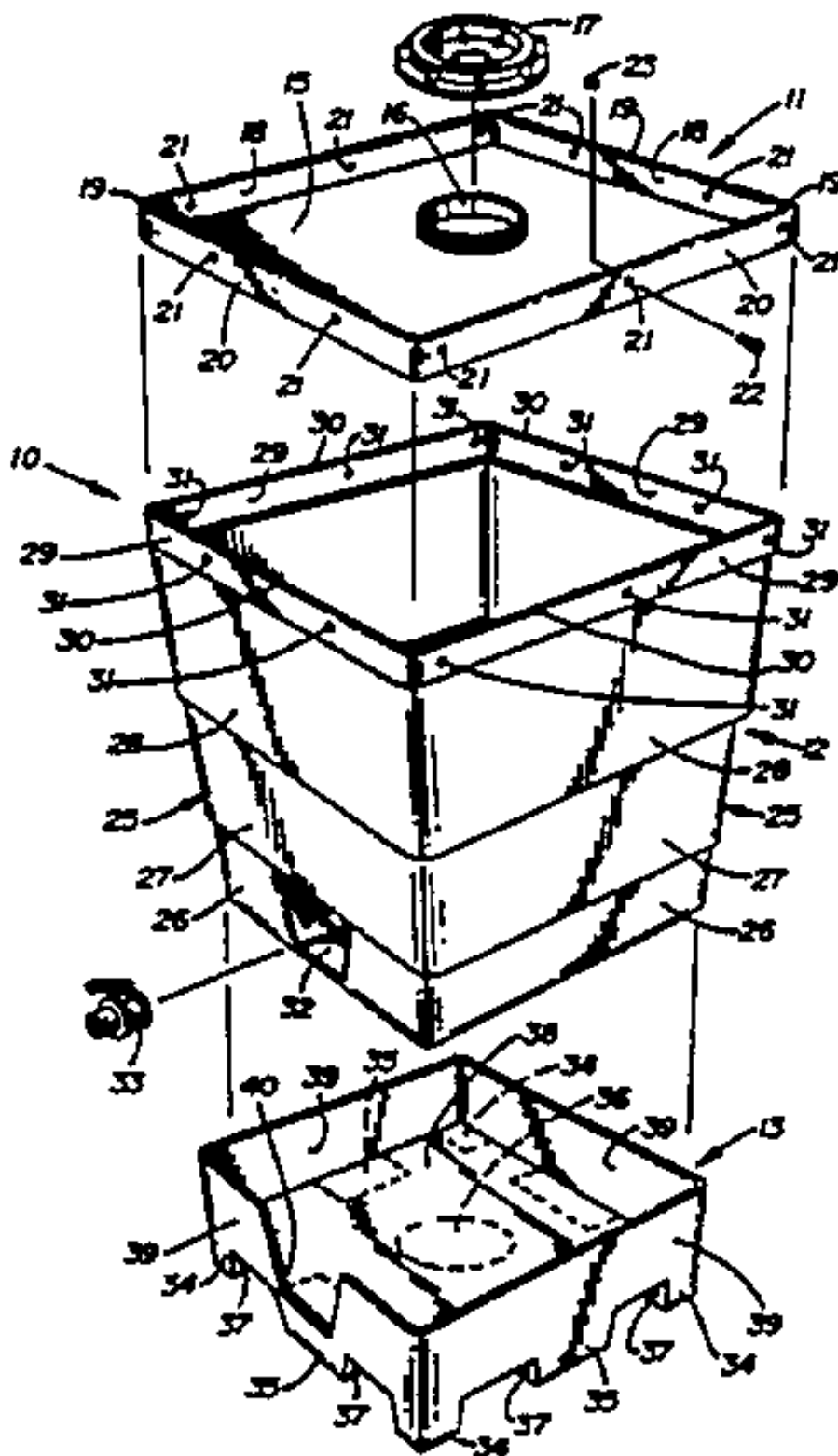
Family 20/100 - FAMPAT - ©Questel

Title

(US5375741)

Container for bulk material and its method of manufacture

Images



Publication numbers with kind code & date

[US5375741](#)

A 1994-12-27 US5375741



Abstract

(US5375741)

A container (10) for carrying bulk materials includes a body portion (12) having an open top, a cover (11) to close the open top, and a base portion (13) holding the body portion. The base portion (13) has sidewalls (39) which cradle the sidewalls (25) of the body portion (12), which sidewalls (25) are tapered so that the container (10) can be nested within a like container. Material to be discharged from the container may pass through a valve (33) positioned in a recess (32) in a

sidewall (25) of the base portion (12). A preferably flexible liner (14) may be received in body portion (12) and includes a peripheral cuff (46) for attachment to the cover (11) and base portion (12). The liner (14) also has a tube (44) which can communicate with the valve (33) for discharge of the material from the liner (14). The container (10) is made of a resulting translucent plastic formed from the reaction of an isocyanate and a polyol resin utilizing a process whereby pressure is applied to the tanks (58, 60) holding the reactant material (58) and the resin material (60) only during the time when the materials (58, 60) are being transported to the mold (67).

Inventors

HARRIS JACK E

Latest standardized assignees - inventors removed

ROMEO RIM

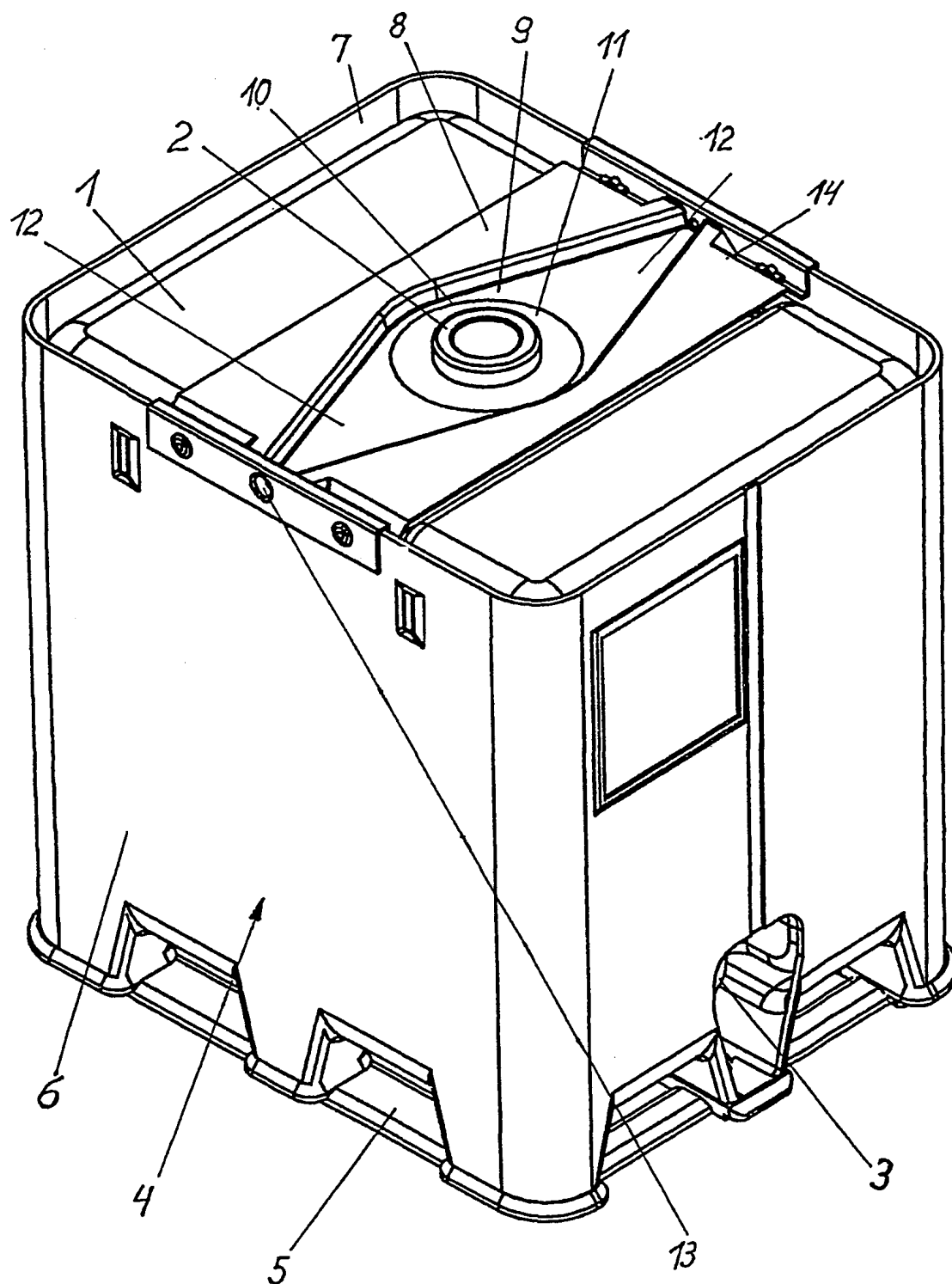
Family 21/100 - FAMPAT - ©Questel

Title

(EP1283802)

Transport and storage device

Images


Publication numbers with kind code & date

CA2410301	C	2009-06-02	CA2410301
BRPI0110958	A2	2009-04-07	BR200110958
KR100774037	B1	2007-11-06	KR100774037
US7150373	B2	2006-12-19	US7150373
CN1164461	C	2004-09-01	CN1164461C
DE50102681	D1	2004-07-29	DE50102681
AT269815	T	2004-07-15	ATE269815
EP1283802	B1	2004-06-23	EP1283802
US20040050850	A1	2004-03-18	US20040050850
JP2003534207	A	2003-11-18	JP2003534207
CN1430567			



	A	2003-07-16	CN1430567				
BR0110958	A	2003-04-15	BR200110958				
BRPI0110958	A1	2003-04-15	BRPI0110958				
MXPA02011239	A	2003-03-10	MX2002PA011239				
EP1283802	A1	2003-02-19	EP1283802				
KR20030007613	A	2003-01-23	KR20030007613				
CA2410301	A1	2002-11-21	CA2410301				
WO01/89942	A1	2001-11-29	WO200189942				
DE20009113	U1	2000-09-14	DE20009113				

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 22/100 - FAMPAT - ©Questel

Title

(EP1568896)

Middle and/or corner legs of sheet metal for transport and storage containers for liquids and bulk materials

Images

EP1568896	A2	2005-08-31	EP1568896
MXPA05002155	A	2005-08-31	MX2005PA002155
NO20051026	L	2005-08-29	NO20051026
BRPI0500564	A1	2005-06-21	BR200500564
NO20051026	D0	2005-02-25	NO200501026
DE202004003020	U1	2004-04-29	DE202004003020

**Abstract**

(EP1568896)

The hollow riveted connection to connect a component of metal to a component of metal, plastic or wood has a rivet shank (3) formed in one piece or separately welded on the first component (1) and which fits in a rivet hole (4) in the second component (2). The free end of the rivet shank of the first component protruding through the second component is deformed into a closing head (5) lying against the second component.

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

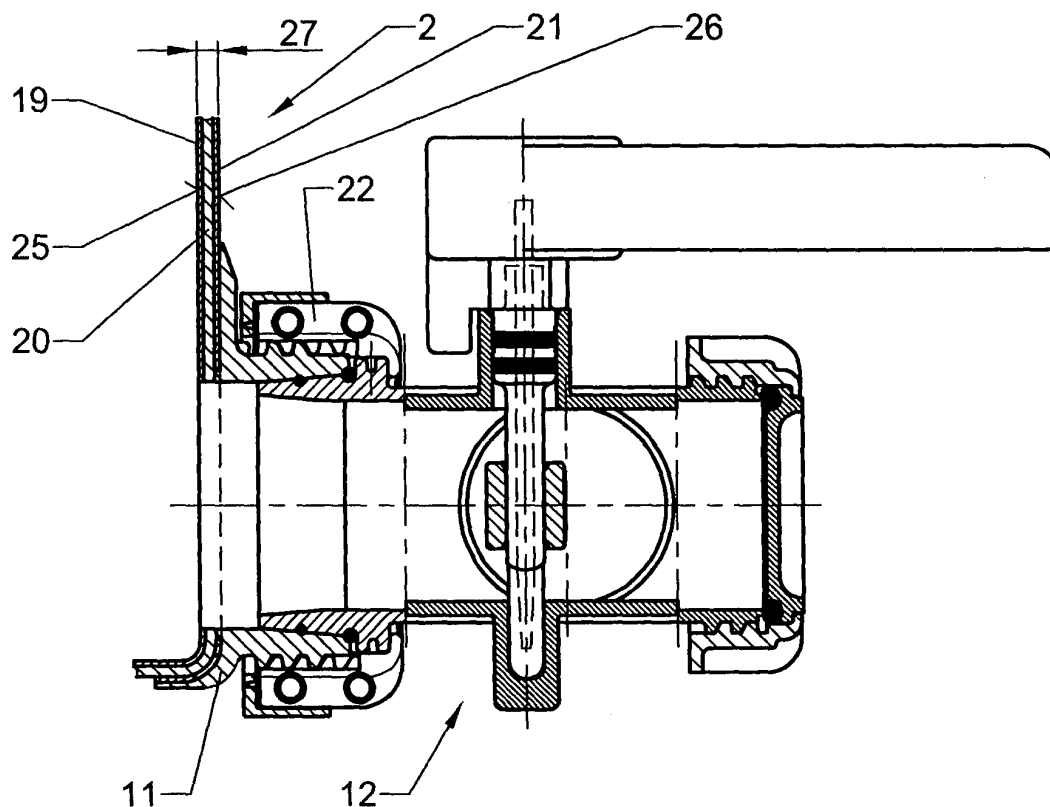
SCHUTZ

Family 23/100 - FAMPAT - ©Questel

Title

(EP1422161)

Transport and storage container for liquids

Images**Publication numbers with kind code & date**

NO331015	B1	2011-09-12	NO-331015
ES2292890	T3	2008-03-16	ES2292890
DK1422161	T3	2008-03-03	DK1422161T
DE50308590			



	D1	2007-12-27	DE50308590				
AT378267	T	2007-11-15	ATE378267				
EP1422161	B1	2007-11-14	EP1422161				
US7151657	B2	2006-12-19	US7151657				
EP1422161	A3	2006-07-26	EP1422161				
CN1224559	C	2005-10-26	CN1224559C				
RU2257329	C2	2005-07-27	RU2257329				
RU2003127938	A	2005-03-10	RU2003127938				
MXPA03008198	A	2004-10-29	MX2003PA008198				
CN1500708	A	2004-06-02	CN1500708				
EP1422161	A2	2004-05-26	EP1422161				
US20040069781	A1	2004-04-15	US20040069781				
DE10242954	A1	2004-03-25	DE10242954				
NO20034119	L	2004-03-18	NO20034119				
NO20034119	D0	2003-09-16	NO200304119				

Abstract

(EP1422161)

Pallet tank incorporates a plastic tank with a long-acting anti-static outer layer (21). A connector (11) made from electrically-conducting plastic is fitted on the tank and connects with this layer. A tap (12) fits into the connector.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

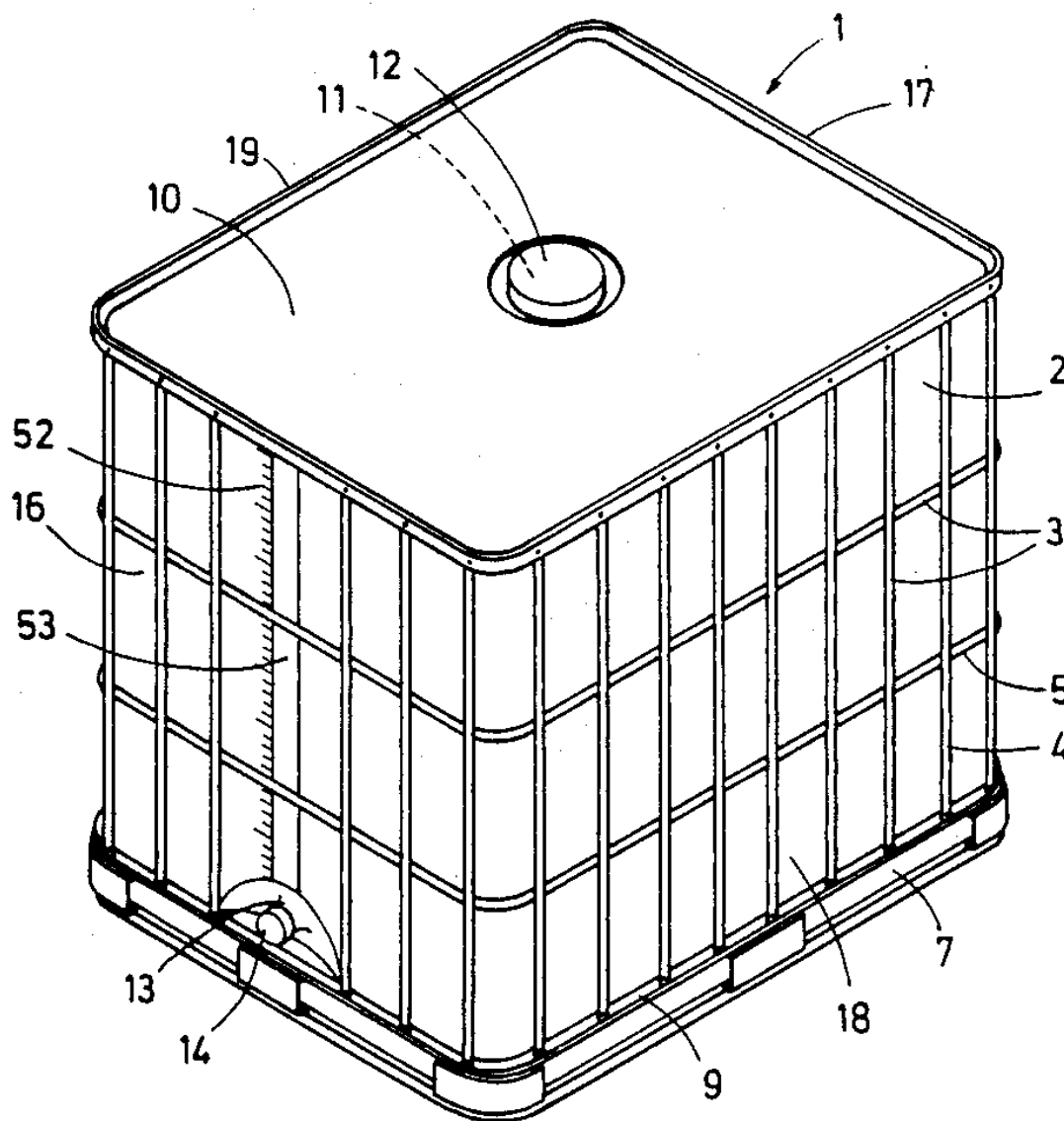
Family 24/100 - FAMPAT - ©Questel

Title

(US4947988)

Pallet container having inner container surrounded by an outer housing of lattice bars

Images



Publication numbers with kind code & date

DE3819911	C2	1992-07-09	DE3819911
US4947988	A	1990-08-14	US4947988
DE3839647	A1	1990-05-31	DE3839647
DE3844605	A1	1990-02-08	DE3844605
DE3819911	A1	1989-12-14	DE3819911



Abstract

(US4947988)

The pallet container is usable as a safely operating multiple-trip container. The outer shell (3) of the inner container (2) is constituted by vertical and horizontal lattice bars (4, 5) in close contact with the inner container (2) and forming continuous external boundary planes. The inner container (2) has a black coloring for its own protection, and for protection of the filling material against UV radiation, and is equipped with an optical filling level indication in the form of a visible strip (52) with a filling level indicator scale (53). The pallet container (1) is usable as a safely operating multiple-trip container for liquid material of all kinds.

Inventors

SCHUTZ UDO

Latest standardized assignees - inventors removed

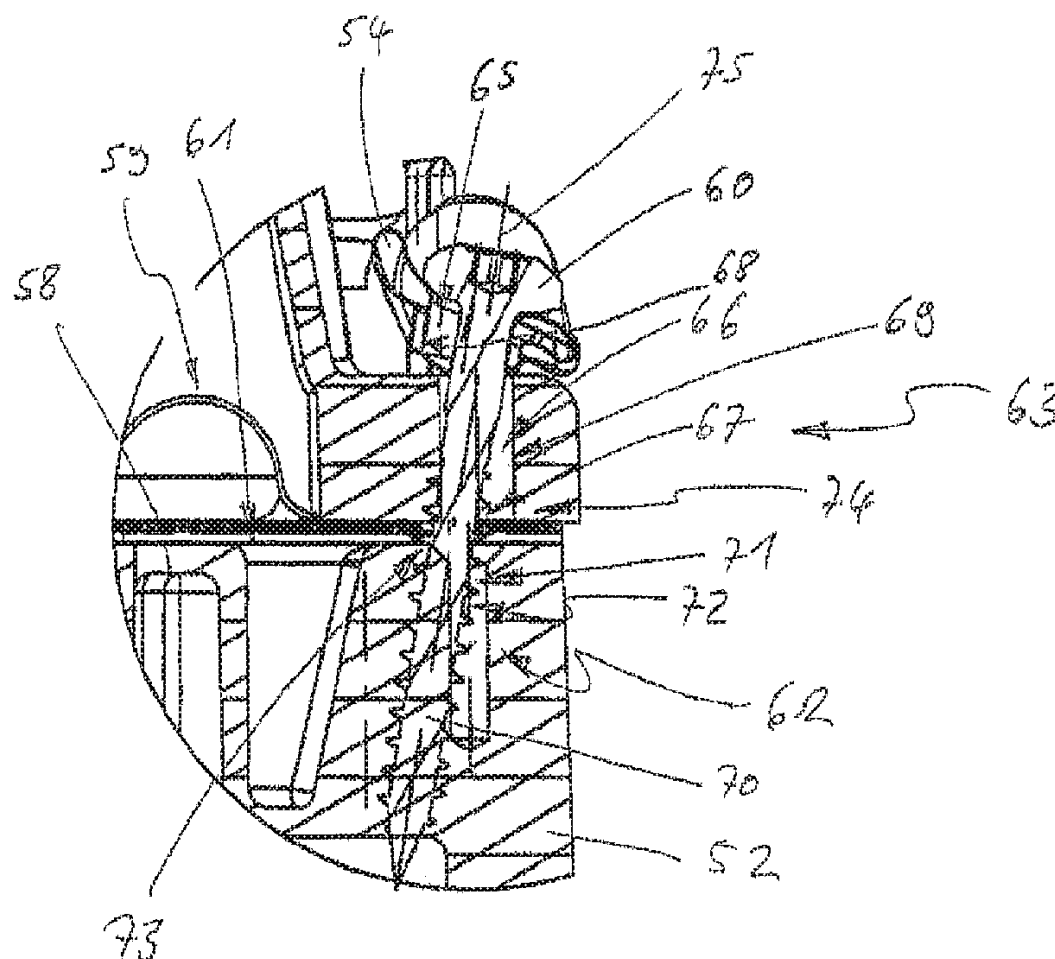
PROTECHNA

Family 25/100 - FAMPAT - ©Questel

Title

(EP3256401)

Pallet-type base for transportation and storage containers for liquids

Images**Publication numbers with kind code & date**

PL3256401	T3	2019-09-30	PL3256401
IL253636	B	2019-09-26	IL-253636
TR201909256	T4	2019-07-22	TR201909256
DK3256401	T3	2019-06-17	DK3256401T
CA2981164	C	2019-06-04	CA2981164
CN107207144	B	2019-05-10	CN107207144B
AU2016218166	B2	2019-04-18	AU2016218166
EP3256401	B1	2019-04-10	EP3256401
RU2682341	C2	2019-03-19	RU2682341
RU2017127289	A	2019-03-12	RU2017127289
RU2017127289	A3	2019-03-12	RU2017127289
KR10-1955841	B1	2019-03-07	KR101955841
MX2017010101	A	2018-11-09	MX2017010101
US20180186539	A1	2018-07-05	US20180186539
BR112017016930	A2	2018-04-03	BR112017016930
JP2018508421	A	2018-03-29	JP2018508421
CL2017002001	A1	2018-02-09	CL2001201700



VN55231	A	2017-12-25	VN--55231				
EP3256401	A1	2017-12-20	EP3256401				
IN201727025495	A	2017-11-10	IN201727025495				
IL253636	A	2017-09-28	IL-253636				
SG11201706083W	A	2017-09-28	SG11201706083W				
CN107207144	A	2017-09-26	CN107207144				
KR20170105531	A	2017-09-19	KR20170105531				
BR112017016930	A1	2017-08-29	BR112017016930				
AU2016218166	A1	2017-08-10	AU2016218166				
AR103642	A1	2017-05-24	AR-103642				
CA2981164	A1	2016-08-18	CA2981164				
WO2016/128248	A1	2016-08-18	WO2016128248				
DE202015000994	U1	2015-04-09	DE202015000994				

Abstract

(EP3256401)

A pallet-type base, more particularly for transportation and storage containers for liquids, provided with an inner container made of plastic, with a closable filler neck and a discharge neck for connection to a drainage valve, wherein the base has an outer casing made of a metal grille or sheet, and a floor for supporting the inner container, corner feet and central feet disposed between the corner feet, and a floor crossbeam (59), wherein at least the outer casing and the floor crossbeam are fastened to at least two central feet, wherein each central foot, the outer casing and the floor crossbeam are interlockingly fastened by means of a screw (60), wherein the screw (60) interlockingly engages the floor crossbeam (59).

Inventors

PAUL ULRICH

Latest standardized assignees - inventors removed

PROTECHNA

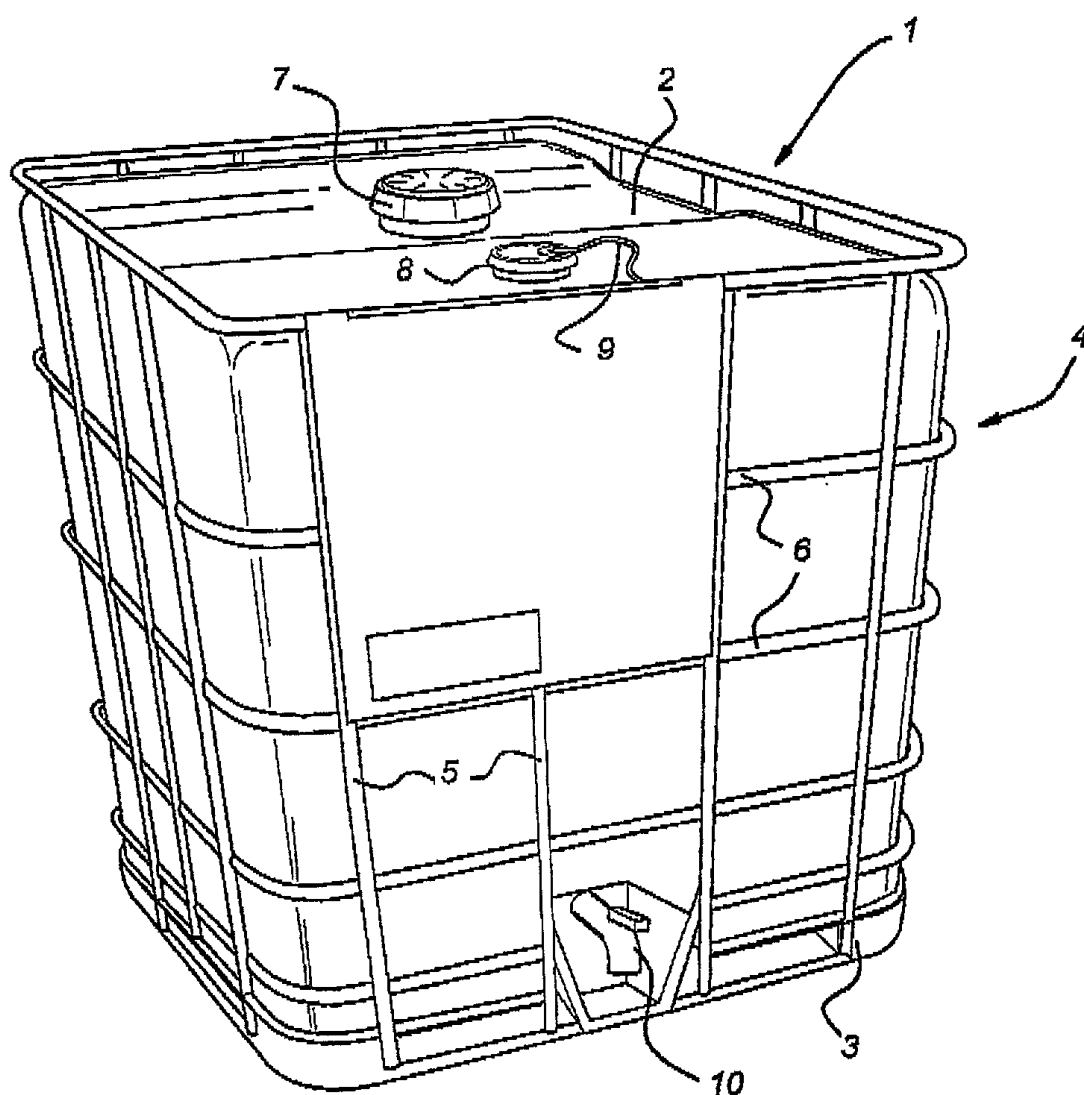
Family 26/100 - FAMPAT - ©Questel

Title

(EP1354816)

IBC for combustible products

Images



Publication numbers with kind code & date

US20030196923	A1	2003-10-23	US20030196923
EP1354816	A1	2003-10-22	EP1354816
NL1020438	C2	2003-10-21	NL1020438



Abstract

(EP1354816)

IBC (1) in which the container (2) is made of plastic and at least the outer surface (12) is made electrically conducting. This IBC stands on a base (3) and is surrounded by a jacket (5). Base and jacket consist of electrically conducting material and the jacket is constructed as a grid.

Inventors

DECROIX CLAUDE

Latest standardized assignees - inventors removed

GREIF

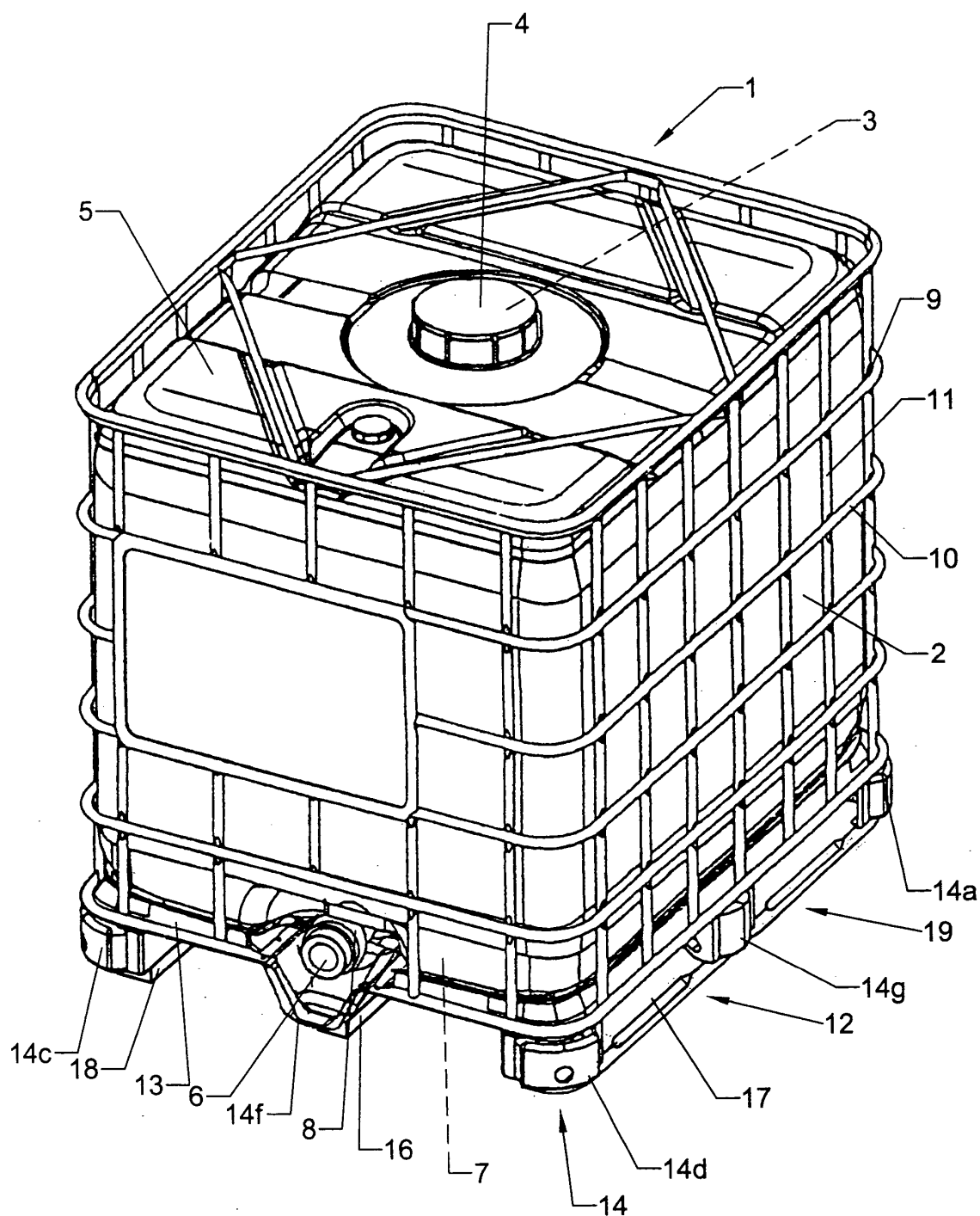
Family 27/100 - FAMPAT - ©Questel

Title

(EP1528010)

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

Images



Publication numbers with kind code & date

BRPI0404718	B1	2018-02-14	BR200404718
IN250232	B	2011-12-23	IN-250232
NO331191	B1	2011-10-31	NO-331191
MY137236	A	2009-01-30	MY-137236
PL1528010	T3	2008-12-31	PL1528010
DK1528010	T3	2008-09-01	DK1528010T
ES2303924	T3	2008-09-01	ES2303924
DE502004007038	D1	2008-06-19	DE502004007038
AT394318	T	2008-05-15	ATE394318
EP1528010	B1	2008-05-07	EP1528010
JP4109242	B2	2008-04-11	JP4109242
CN1323013	C	2007-06-27	CN1323013C



AU2004224923	B2	2006-12-07	AU2004224923				
RU2283810	C2	2006-09-20	RU2283810				
RU2004131608	A	2006-04-10	RU2004131608				
AR047622	A1	2006-02-01	AR--47622				
IN1118/CHE/2004	A	2006-01-13	IN2004CH01118				
BRPI0404718	A	2005-06-21	BR200404718				
JP2005132493	A	2005-05-26	JP2005132493				
AU2004224923	A1	2005-05-19	AU2004224923				
MXPA04010712	A	2005-05-17	MX2004PA010712				
US20050092639	A1	2005-05-05	US20050092639				
CN1611420	A	2005-05-04	CN1611420				
EP1528010	A1	2005-05-04	EP1528010				
NO20044694	L	2005-05-02	NO20044694				
DE10355420	B3	2005-03-03	DE10355420				
ZA200408477	B	2005-01-04	ZA200408477				
BRPI0404718	A1	2004-11-30	BR200404718				
DE20316883	U1	2004-03-11	DE20316883				

Abstract

(EP1528010)

Square or rectangular transport container for liquids has fittings at bottom similar to fittings on pallet engaging with standard type of pallet support

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

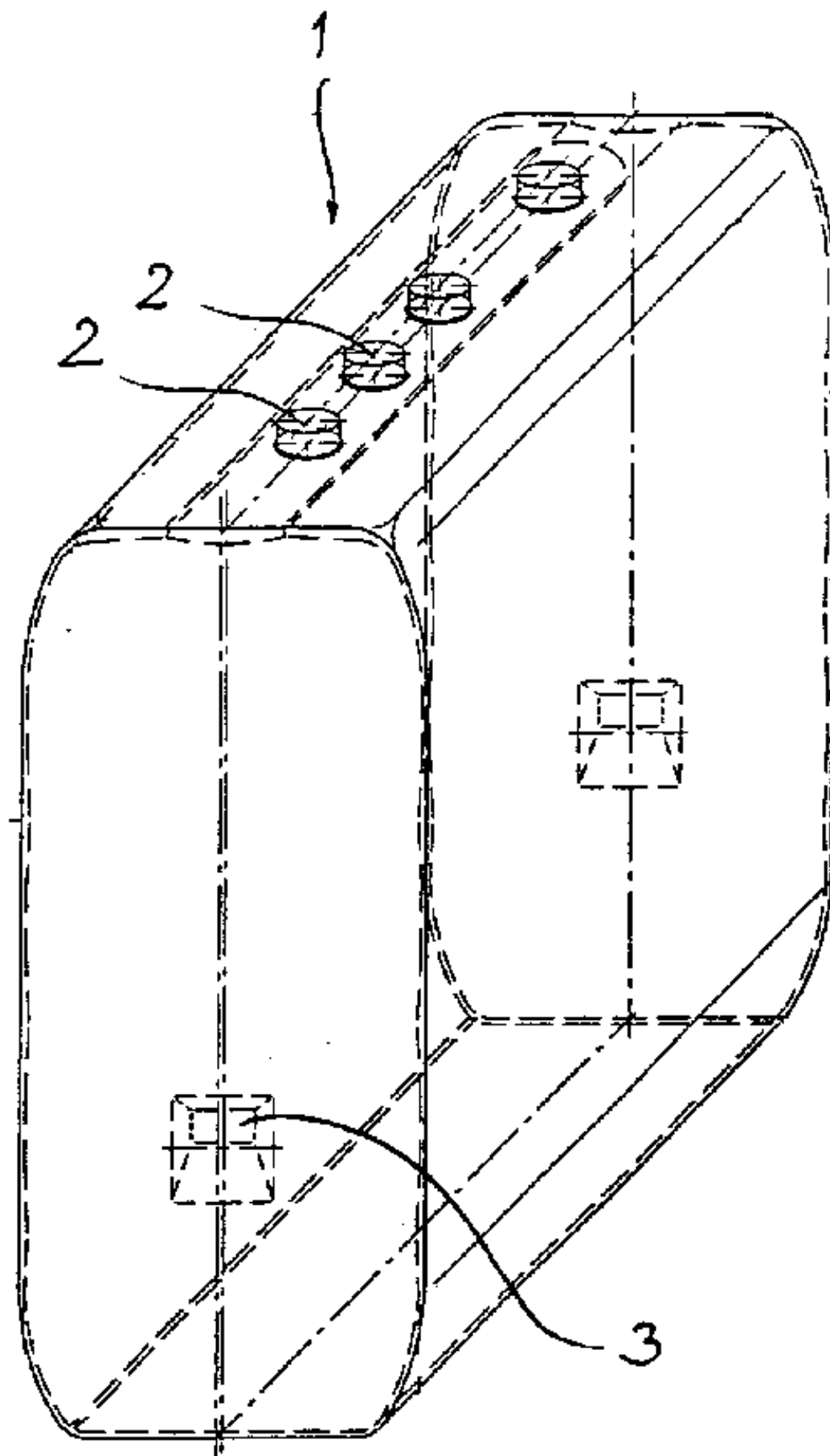
Family 28/100 - FAMPAT - ©Questel

Title

(DE29502485)

Tank for storage of liquids, in particular combustible liquids

Images

*Fig. 1*

Publication numbers with kind code & date

[DE29602097](#) U1 1996-04-04 DE29602097

[DE29502485](#) U1 1995-04-13 DE29502485

**Latest standardized assignees - inventors removed**

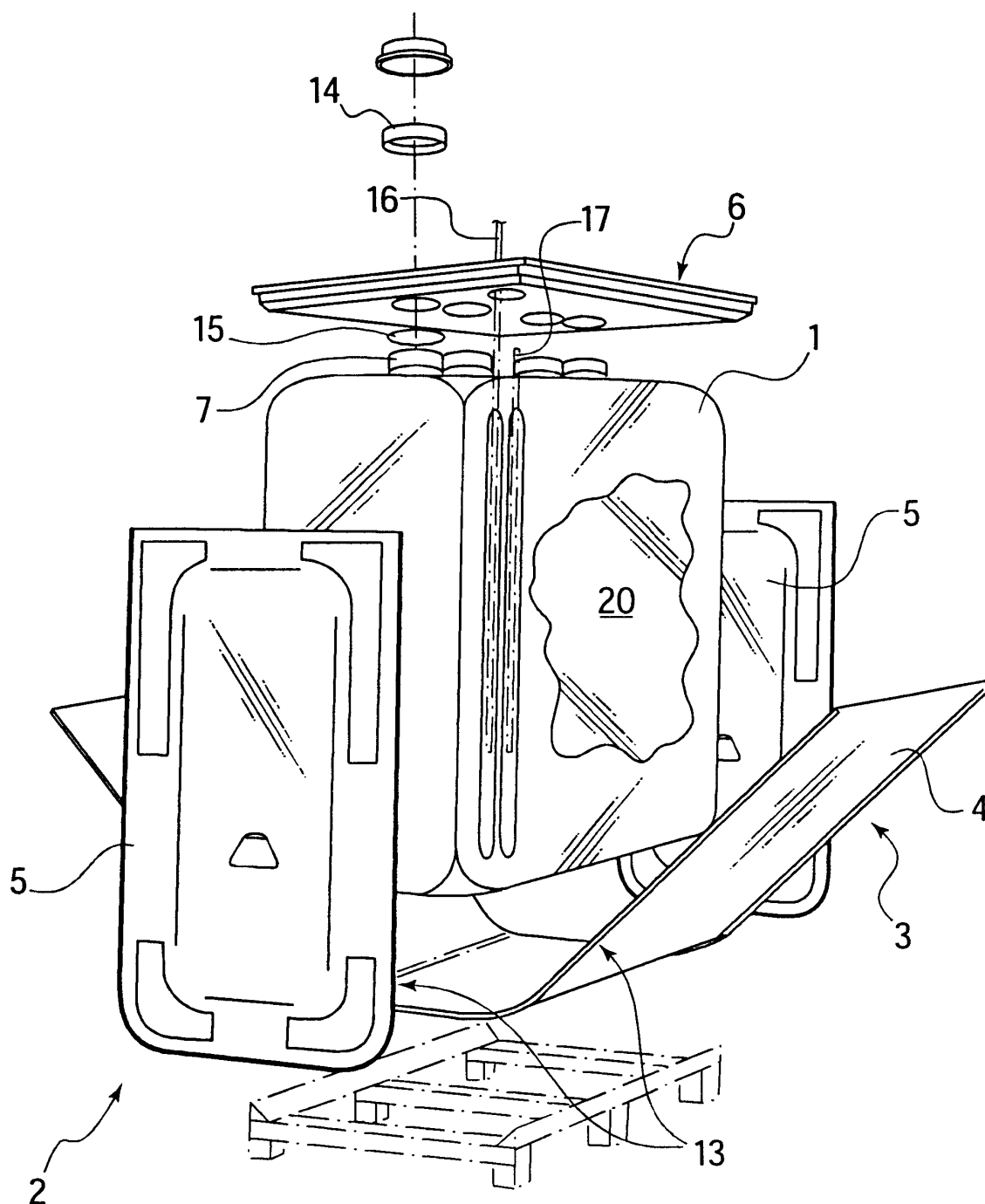
WERIT KUNSTSTOFFWERKE W SCHNEI

Family 29/100 - FAMPAT - ©Questel

Title

(EP1046596)

Double walled tank for oil or similar

Images**Publication numbers with kind code & date**

[ES2177488](#) T3 2002-12-16 ES2177488

[DE50000324](#) D1 2002-09-05 DE50000324

[AT221503](#) T 2002-08-15 ATE221503



EP1046596	B1	2002-07-31	EP1046596
US6206228	B1	2001-03-27	US6206228
DE19917854	A1	2000-11-02	DE19917854
EP1046596	A1	2000-10-25	EP1046596

**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

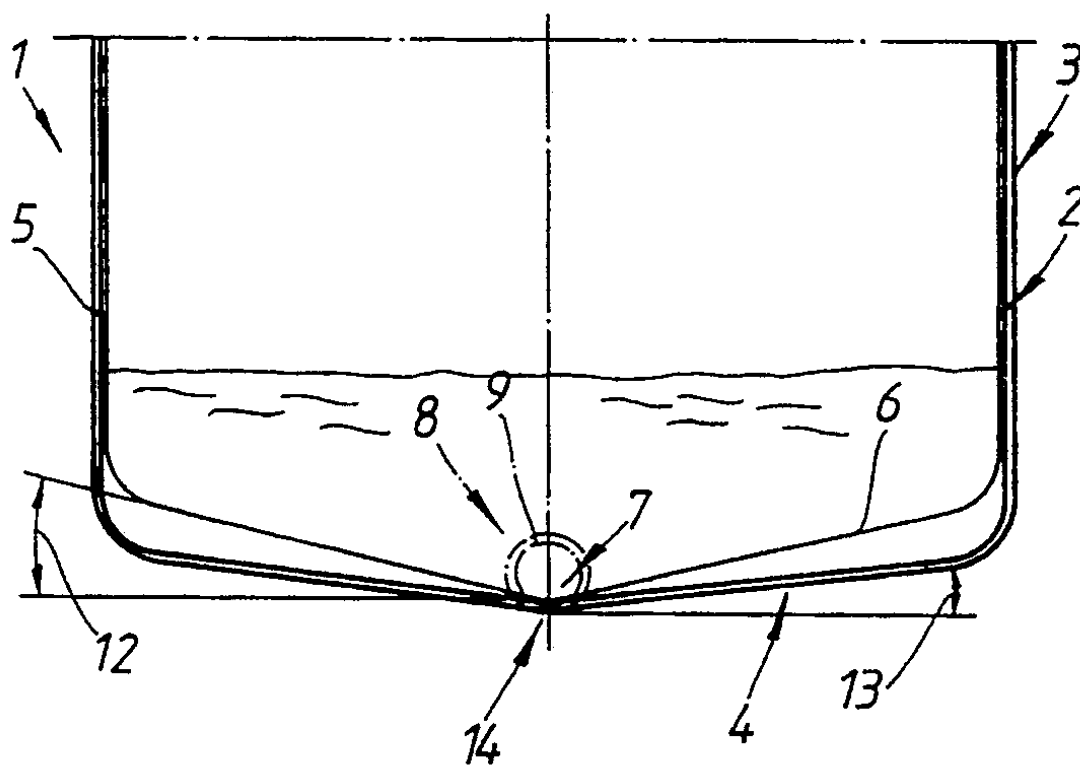
ROTH MANFRED

Family 30/100 - FAMPAT - ©Questel

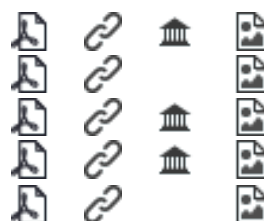
Title

(EP-385111)

Transport and/or storage container

ImagesFig. 5**Publication numbers with kind code & date**

CA2010190	C	2000-01-25	CA2010190
MX171946	B	1993-11-24	MX-171946
ES2040517	T3	1993-10-16	ES2040517
DE59001095	D1	1993-05-06	DE59001095
AT87576	T	1993-04-15	ATE087576



EP0385111	B1	1993-03-31	EP-385111				
US5024346	A	1991-06-18	US5024346				
DE3905976	C2	1990-11-29	DE3905976				
EP0385111	A1	1990-09-05	EP-385111				
DE3905976	A1	1990-08-30	DE3905976				
CA2010190	A1	1990-08-25	CA2010190				

Abstract

(EP0385111)

The transport and/or storage container consists of an outer container (1) and an inner container (2) in the form of a bubble made of thermoplastic synthetic material which is elastically deformable. The outer container has a container shell (3) made of steel bars (5), in particular round steel bars, and an outer container bottom (4). The inner container (2) has an emptying device with an emptying nozzle (8) in the region of its inner container bottom (6). The outer container bottom is designed towards the region of the emptying nozzle of the inner container as an outlet-enhancing outer container bottom (4), with corresponding sloping surfaces, which has its lowest point in the region of the emptying nozzle. The inner container is provided with an outlet bottom which rests on the outer container bottom in the filled state and springs back during emptying. <IMAGE>

Inventors

ROSER, GEORGES

Latest standardized assignees - inventors removed

SOTRALENTZ

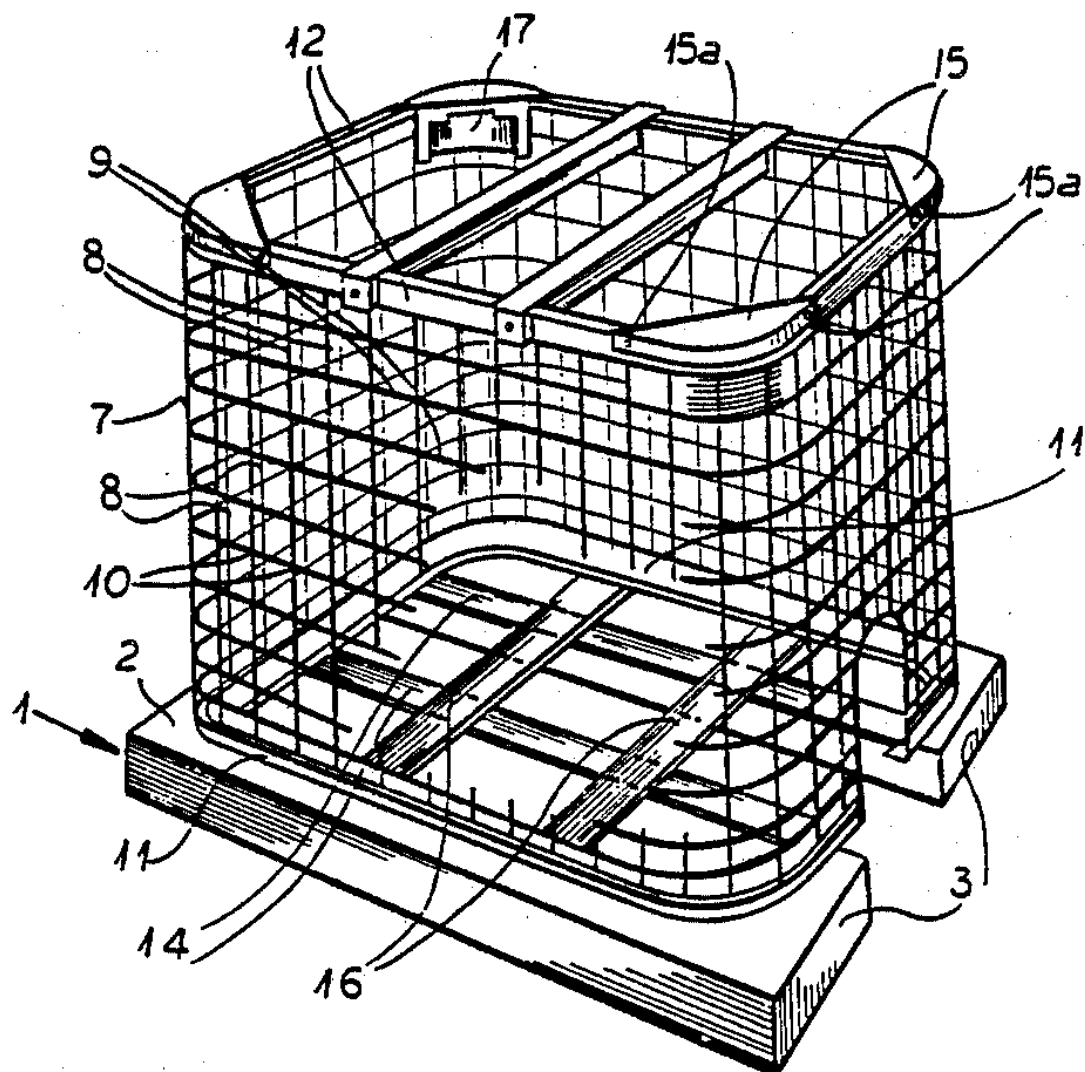
Family 31/100 - FAMPAT - ©Questel

Title

(EP-239709)

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

Images



Publication numbers with kind code & date

JP1832820	C	1994-03-29	JP1832820
JPH0543588	B2	1993-07-02	JP93043588
PL157765	B1	1992-06-30	PL-157765
CS275991	B6	1992-03-18	CS-275991
DE3681789	D1	1991-11-07	DE3681789
AT67976	T	1991-10-15	ATE067976
EP0239709	B1	1991-10-02	EP-239709
CA1282746	C	1991-04-09	CA1282746
IN167865	B	1990-12-29	IN-167865
AU586109	B2	1989-06-29	AU-586109
USD301480	S1	1989-06-06	USD301480
USD301481	S1	1989-06-06	USD301481
FR2596360	B1	1989-02-17	FR2596360
ES2004585	A6	1989-01-16	ES2004585
AU7528987	A	1989-01-12	AU8775289
US4795057	A	1989-01-03	US4795057
PL264856	A1	1988-02-04	PL87264856
JPS62287845	A	1987-12-14	JP62287845
EP0239709	A1	1987-10-07	EP-239709
FR2596360	A1	1987-10-02	FR2596360



Abstract

(EP0239709)

The transport and/or storage container comprises a container base in the shape of a pallet with a plurality of planks positioned parallel to each other having a plurality of supporting surfaces, an inner container in the form of a substantially rectangular parallelepiped shape plastic tank with a plurality of rounded edges and corners and a supporting container which at least peripherally surrounds the inner container. The supporting container has a supporting container jacket comprising a plurality of vertical and horizontal steel rods which are welded together at the crossing points of the steel rods and are connected in an upper steel frame by welding. A lower steel frame having an L-shape cross section is attached with a horizontal flange on the supporting surfaces. A plurality of flat steel bars running substantially parallel to the planks of the supporting surfaces and/or transversely or diagonally are welded to the lower frame of the supporting container. The supporting container is also stabilized by a plurality of corner reinforcing members mounted on the upper steel frame and/or inserted in the upper steel frame.

(From US4795057 A)

Inventors

JUNGELS, ERWIN

PFEIFFER, PIERRE

CHEVAL, BENOIT

SIGWALT, PAUL

Latest standardized assignees - inventors removed

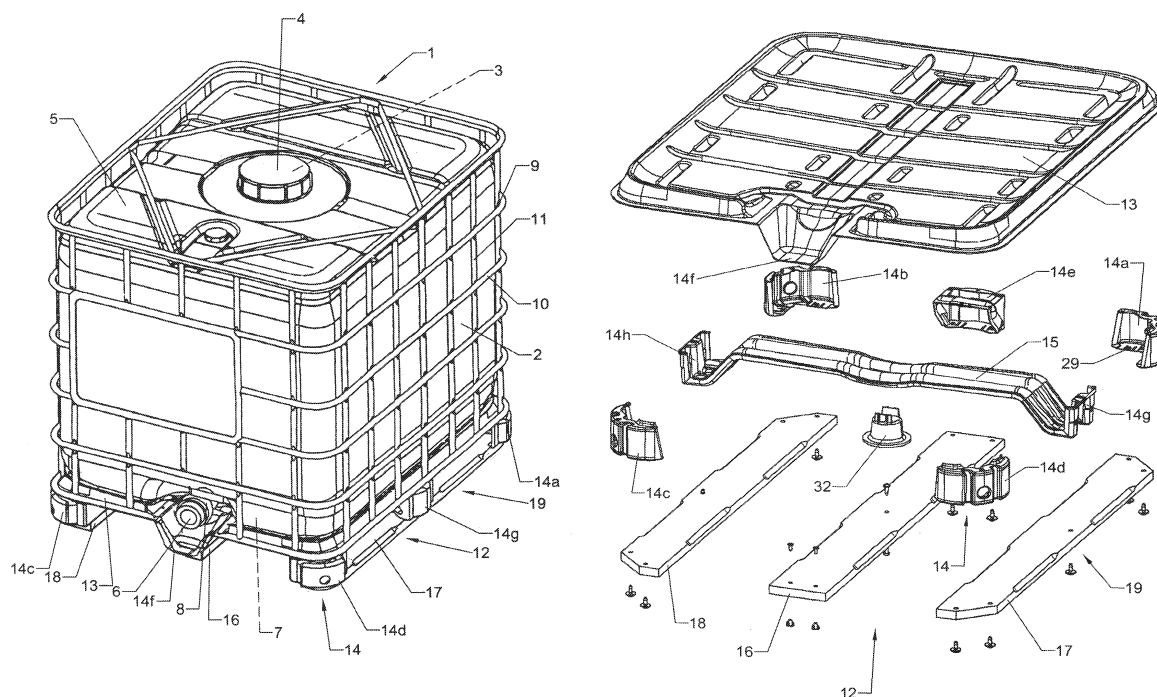
SOTRALENTZ

Family 32/100 - FAMPAT - ©Questel

Title

(US8505721)

Support base for transport and storage containers for liquids

Images**Publication numbers with kind code & date**[US8505721](#)

B2 2013-08-13 US8505721

[US20120211395](#)

A1 2012-08-23 US20120211395

Abstract

(US20120211395)



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

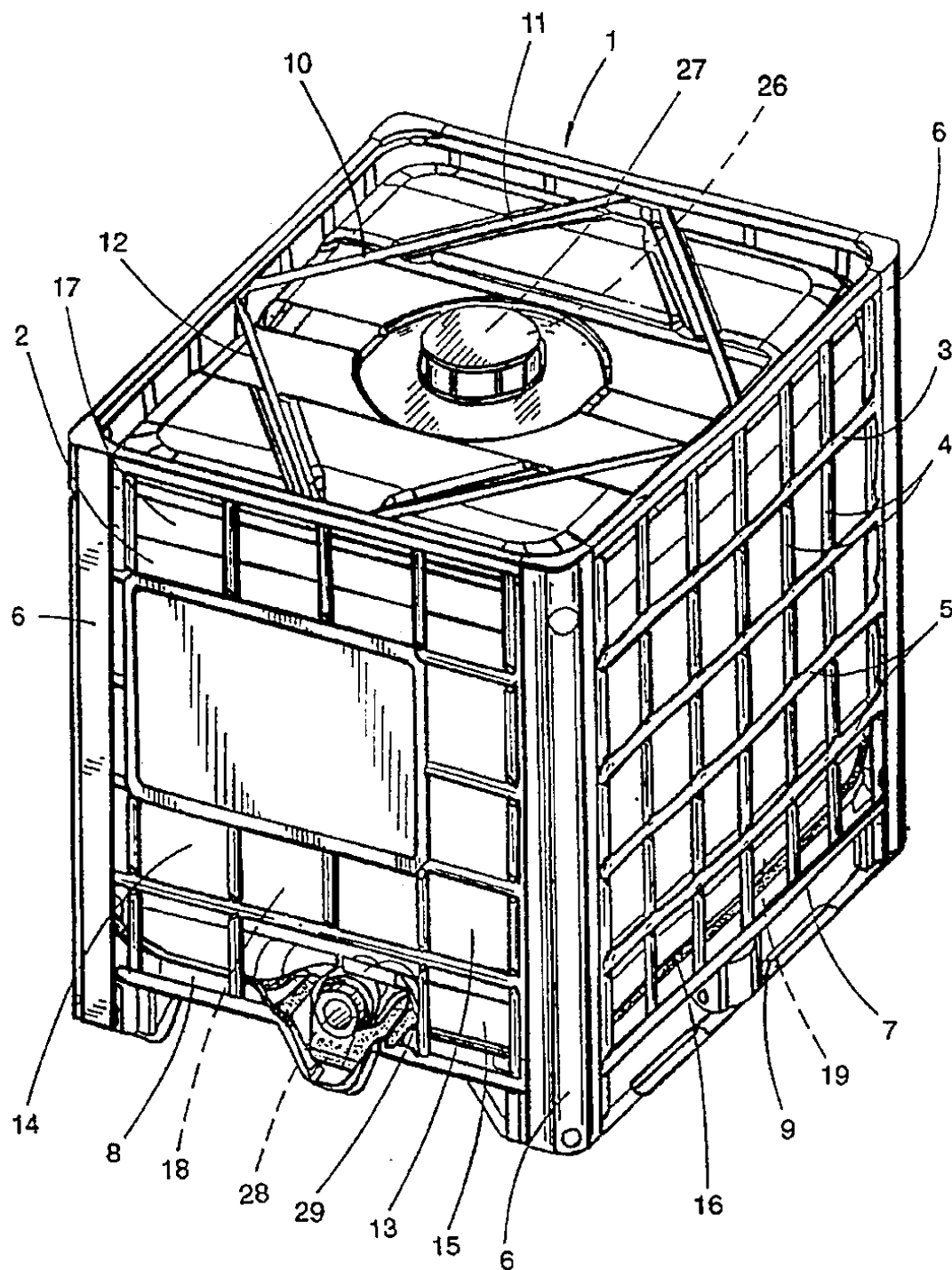
Family 33/100 - FAMPAT - ©Questel

Title

(EP-709303)

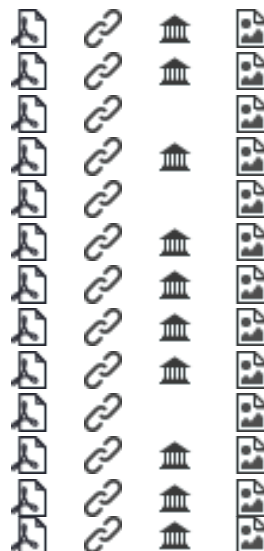
Pallet container for the transport and storage of liquids

Images



Publication numbers with kind code & date

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



BR9504589	A	1997-05-27	BR9504589				
JP09132292	A	1997-05-20	JP09132292				
CZ282201	B6	1997-05-14	CZ-282201				
CN1136002	A	1996-11-20	CN1136002				
SK135095	A3	1996-10-01	SK9501350				
CZ280095	A3	1996-09-11	CZ9502800				
KR960013950	A	1996-05-22	KR19960013950				
TW276240	B	1996-05-21	TW-276240				
PL311112	A1	1996-05-13	PL95311112				
EP0709303	A1	1996-05-01	EP-709303				
CA2161179	A1	1996-04-30	CA2161179				
HUT72337	A	1996-04-29	HU-T72337				
ZA9508205	B	1996-04-24	ZA9508205				
BRPI9504589	A1	1995-11-28	BR9504589				
HU9502917	D0	1995-11-28	HU9502917				
DE4438739	C1	1995-10-26	DE4438739				

Abstract

(EP0709303)

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

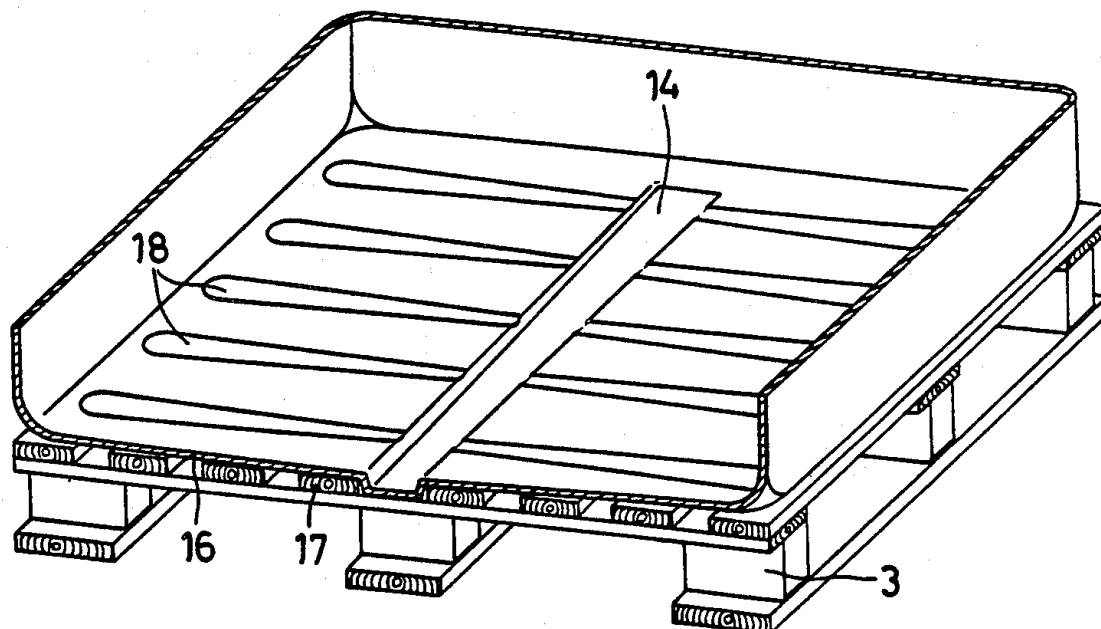
Family 34/100 - FAMPAT - ©Questel

Title

(US4676373)

Plastic pallet container

Images



Publication numbers with kind code & date

FR2573388	B1	1990-02-09	FR2573388
IT1200144	B	1989-01-05	IT1200144
US4676373	A	1987-06-30	US4676373
NL8503176	A	1986-06-16	NL8503176
FR2573388	A1	1986-05-23	FR2573388
BE903670	A	1986-03-14	BE-903670
IT8548803	D0	1985-11-19	IT8548803



Abstract

(US4676373)

Pallet container unit for flowable substances, the container unit having a top and bottom, being arranged to rest via its bottom on a pallet, and being composed of: an inner container made of plastic and having a plurality of side walls and a bottom wall; and a supporting frame enclosing the inner container, the inner container having a drain fitting in one side wall in the vicinity of the bottom wall. The frame is in close contact with the inner container and is composed of a grating defining side walls of the frame and two tubular rims connected, respectively, to the grating at the top and bottom of the unit. The bottom wall of the container is arranged to rest on the pallet and the container has a curved bottom edge joining the bottom wall to the side walls. The unit further includes elements for engaging the rim at the bottom of the unit for securing the supporting frame to the pallet.

Inventors

SCHNEIDER HELMHOLD

Latest standardized assignees - inventors removed

SCHNEIDER HELMHOLD

Family 35/100 - FAMPAT - ©Questel

Title

(EP2433880)

Transport and storage container for fluids

Images

(EP2433880)

The container has an inner container made of plastic, and a sheet metal part (35) including a frame contact section for electrical conductive connection with a frame surface. A contact conductor section of the metal part extends within an accommodation chamber (38) formed in a support bracket. The contact section has a contact surface assembly with a bottom contact surface and a stack contact surface (49). The stack surface is connected with the bottom surface over a contact surface offset (50) and arranged above the bottom surface in a direction of a container vertical axis.

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

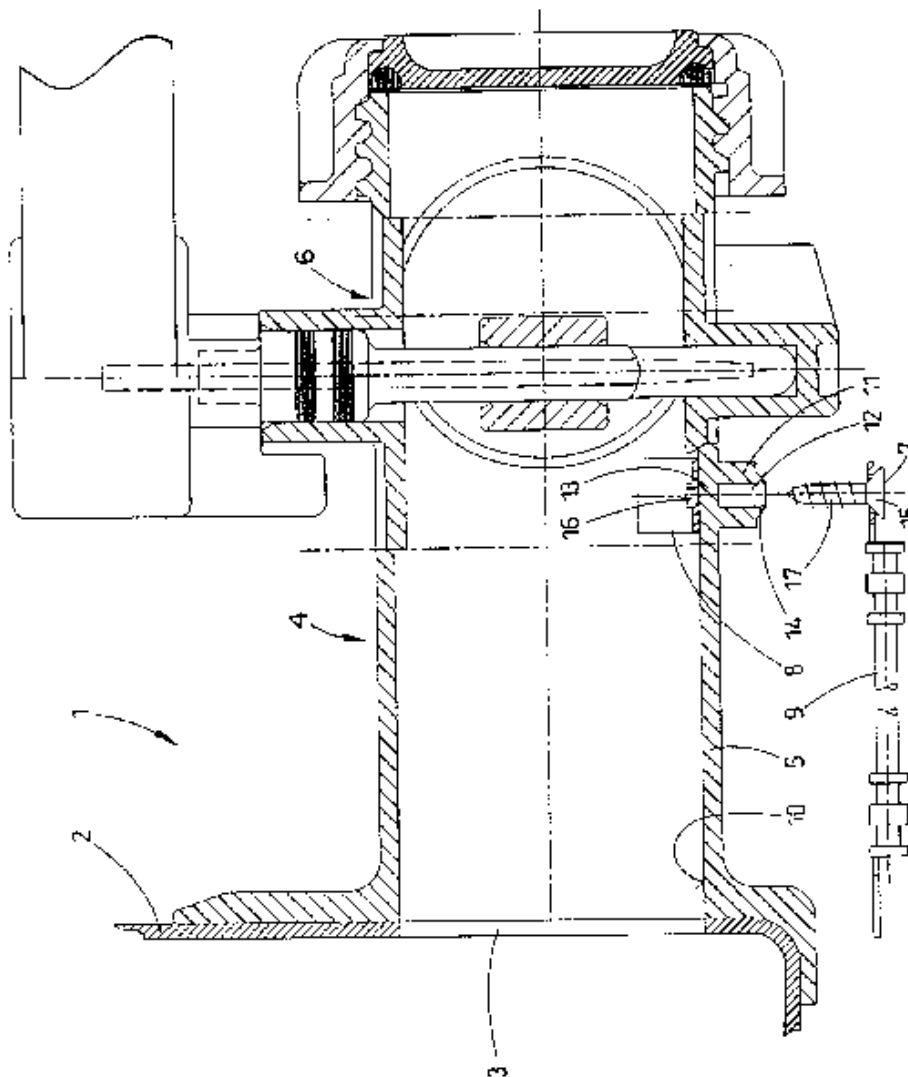
Family 36/100 - FAMPAT - ©Questel

Title

(EP-949159)

Transport and storage container for liquids

Images



DE59906324	D1	2003-08-28	DE59906324
EP0949159	B1	2003-07-23	EP-949159
EP0949159	A3	2002-04-10	EP-949159
AU737773	B2	2001-08-30	AU-737773
AR014967	A1	2001-04-11	AR--14967
US6156969	A	2000-12-05	US6156969
DE29824096	U1	2000-04-20	DE29824096
BR9902030	A	2000-01-11	BR9902030
BRPI9902030	A1	2000-01-11	BR199902030
JP11301787	A	1999-11-02	JP11301787



AU2136699	A	1999-10-14	AU9921366
DE19815082	A1	1999-10-14	DE19815082
CN1231261	A	1999-10-13	CN1231261
EP0949159	A2	1999-10-13	EP-949159

**Abstract**

(EP0949159)

A container (1) holds fluids during storage and transport and has a pallet shaped lower frame, and exchangeable plastic container (2) with four side walls, a top with an outlet and a bottom with a tap (4) controlled outlet. The inner plastic container (2) is protected by an e.g. metal grid outer mantle. A screw (7) extends from inside the container (2) through the emptying valve (6) and tap (4) to a metal earthing component (8) and earth cable.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 37/100 - FAMPAT - ©Questel

Title

(EP2703316)

Container assembly

Images

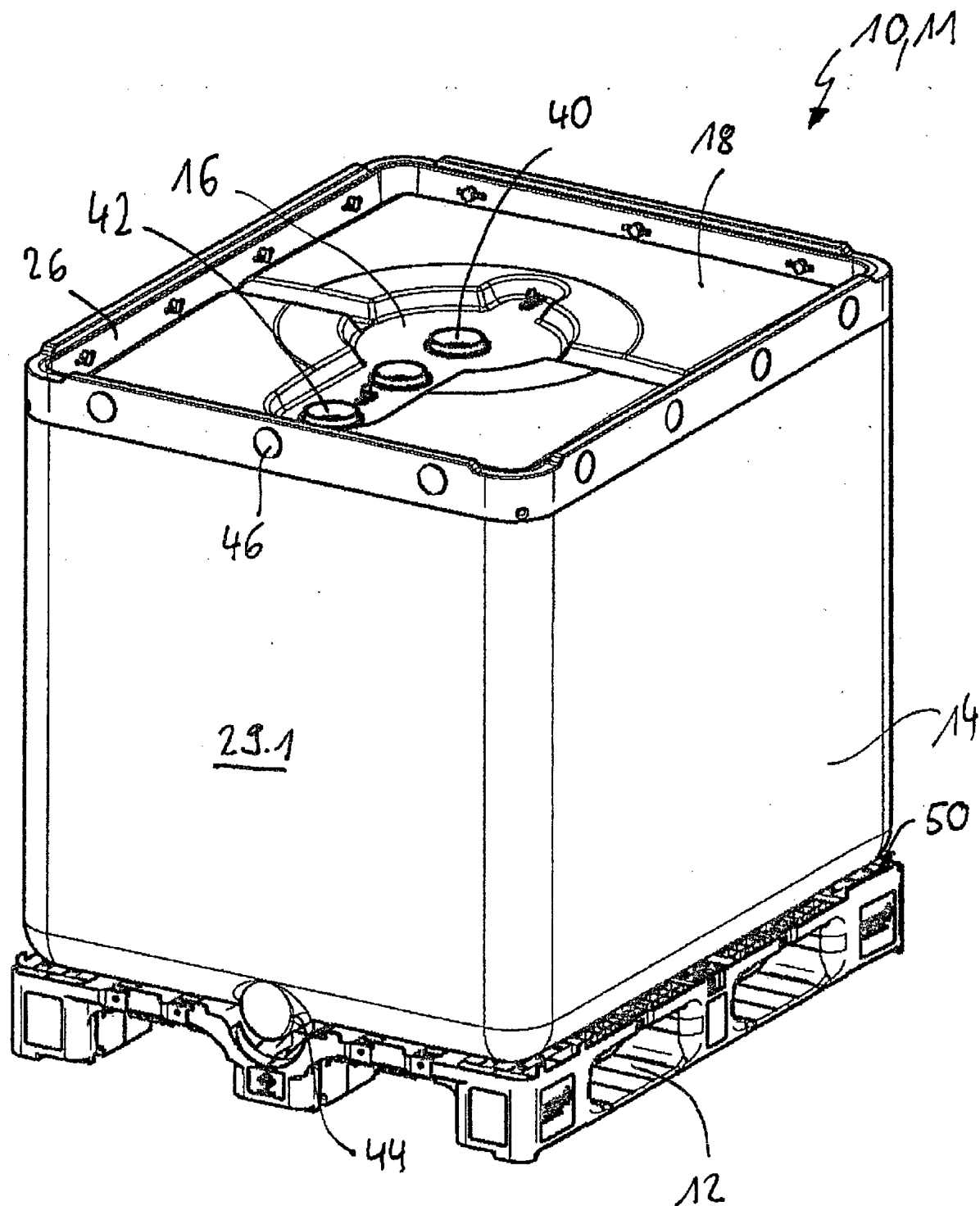


Fig. 1

Publication numbers with kind code & date

EP2703316	B1	2017-03-01	EP2703316
DE102012017402	A1	2014-03-06	DE102012017402
EP2703316	A1	2014-03-05	EP2703316



Abstract

(EP2703316)

The transport device (10) has a pallet (12) made from plastic and an outer jacket (14) made from plastic, where the outer jacket has a base which has a holding element on its upper surface facing the pallet. The holding element engages in a recess arranged on an upper side (50) of the pallet. The former holding element is arranged parallel to a longitudinal side of

the outer jacket on the upper surface of the base.

(From EP2703316 A1)

Inventors

SCHNEIDER EKKEHARD DIPL -ING

Family 38/100 - FAMPAT - ©Questel

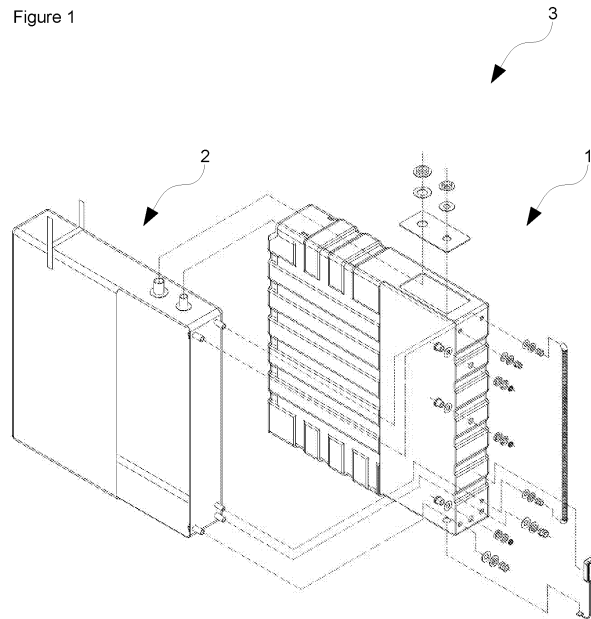
Title

(WO201720092)

A bundled fluids container system

Images

Figure 1



Publication numbers with kind code & date

[WO2017/020092](#) A1 2017-02-09 WO201720092



Abstract

(WO2017/020092)

Embodiments: [58] Reference throughout this specification to "one embodiment" or "an embodiment" means that a particular feature, structure or characteristic described in connection with the embodiment is included in at least one embodiment of the present invention. Thus, appearances of the phrases "in one embodiment" or "in an embodiment" in various places throughout this specification are not necessarily all referring to the same embodiment, but may. Furthermore, the particular features, structures or characteristics may be combined in any suitable manner, as would be apparent to one of ordinary skill in the art from this disclosure, in one or more embodiments. [59] Similarly it should be appreciated that in the above description of example embodiments of the invention, various features of the invention are sometimes grouped together in a single embodiment, figure, or description thereof for the purpose of streamlining the disclosure and aiding in the understanding of one or more of the various inventive aspects. This method of disclosure, however, is not to be interpreted as reflecting an intention that the claimed invention requires more features than are expressly recited in each claim. Rather, as the following claims reflect, inventive aspects lie in less than all features of a single foregoing disclosed embodiment. Thus, the claims following the Detailed Description of Specific Embodiments are hereby expressly incorporated into this Detailed Description of Specific Embodiments, with each claim standing on its own as a separate embodiment of this invention. [60] Furthermore, while some embodiments described herein include some but not other features included in other embodiments, combinations of features of different embodiments are meant to be within the scope of the invention, and form different embodiments, as would be understood by those in the art. For example, in the following claims, any of the claimed embodiments can be used in any combination. Different Instances of Objects [61] As used herein, unless otherwise specified the use of the ordinal adjectives "first", "second", "third", etc., to describe a common object, merely indicate that different instances of like objects are being referred to, and are not

intended to imply that the objects so described must be in a given sequence, either temporally, spatially, in ranking, or in any other manner. Specific Details [62] In the description provided herein, numerous specific details are set forth. However, it is understood that embodiments of the invention may be practiced without these specific details. In other instances, well-known methods, structures and techniques have not been shown in detail in order not to obscure an understanding of this description. Terminology [63] In describing the preferred embodiment of the invention illustrated in the drawings, specific terminology will be resorted to for the sake of clarity. However, the invention is not intended to be limited to the specific terms so selected, and it is to be understood that each specific term includes all technical equivalents which operate in a similar manner to accomplish a similar technical purpose. Terms such as "forward", "rearward", "radially", "peripherally", "upwardly", "downwardly", and the like are used as words of convenience to provide reference points and are not to be construed as limiting terms. Comprising and Including [64] In the claims which follow and in the preceding description of the invention, except where the context requires otherwise due to express language or necessary implication, the word "comprise" or variations such as "comprises" or "comprising" are used in an inclusive sense, i.e. to specify the presence of the stated features but not to preclude the presence or addition of further features in various embodiments of the invention. [65] Any one of the terms: including or which includes or that includes as used herein is also an open term that also means including at least the elements/features that follow the term, but not excluding others. Thus, including is synonymous with and means comprising. Scope of Invention [66] Thus, while there has been described what are believed to be the preferred embodiments of the invention, those skilled in the art will recognize that other and further modifications may be made thereto without departing from the spirit of the invention, and it is intended to claim all such changes and modifications as fall within the scope of the invention. For example, any formulas given above are merely representative of procedures that may be used. Functionality may be added or deleted from the block diagrams and operations may be interchanged among functional blocks. Steps may be added or deleted to methods described within the scope of the present invention. [67] Although the invention has been described with reference to specific examples, it will be appreciated by those skilled in the art that the invention may be embodied in many other forms. Industrial Applicability [68] It is apparent from the above, that the arrangements described are applicable to the fluids container industries.

Inventors

YENDLE ROSS

YENDLE REGAN

Latest standardized assignees - inventors removed

SERVICE TRUCKS GLOBAL

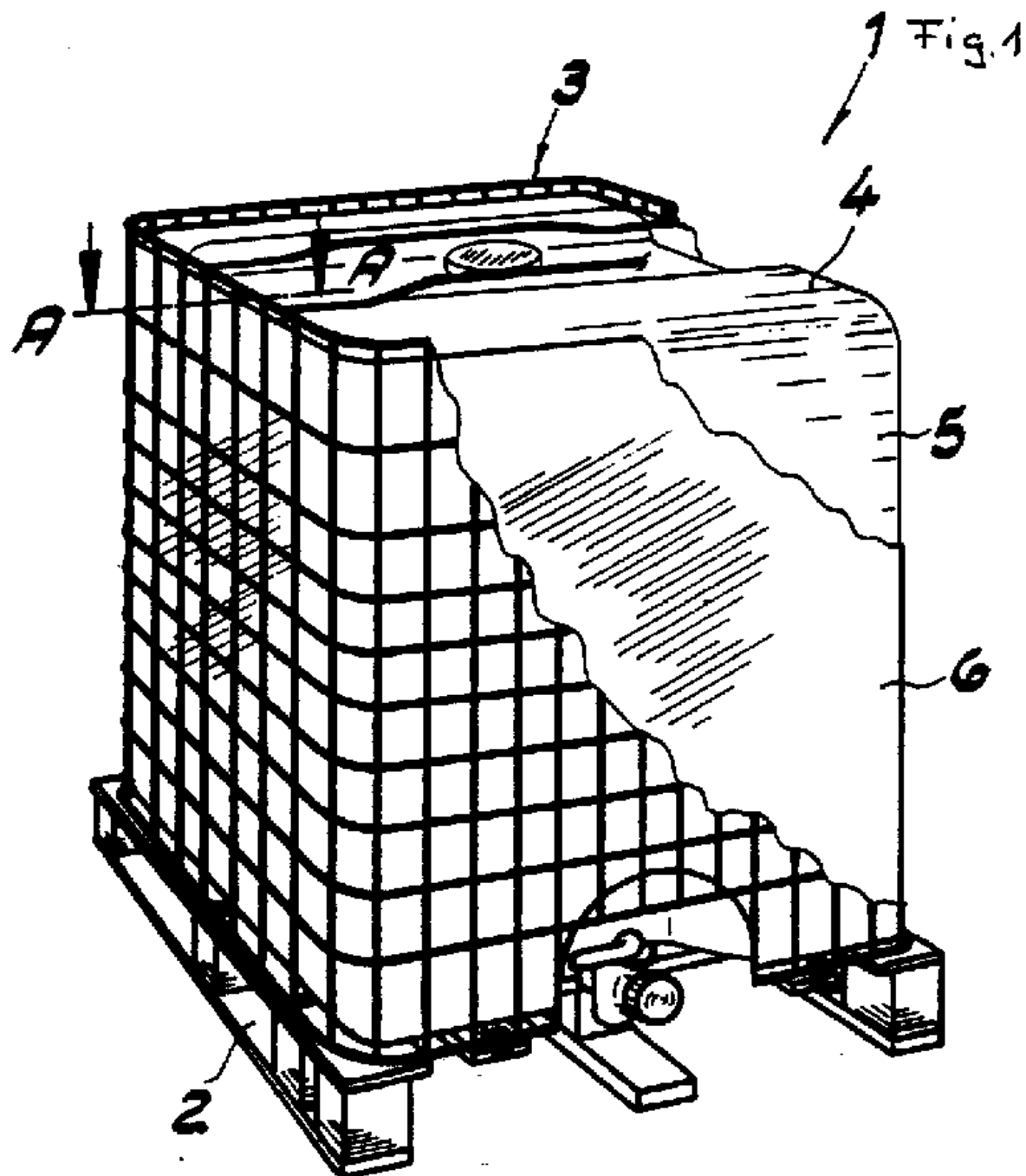
Family 39/100 - FAMPAT - ©Questel

Title

(DE29520520)

Pallet container with pallet, wire grid casing and blow molded thermoplastic container

Images

**Publication numbers with kind code & date**[DE29520520](#)

U1 1996-02-29 DE29520520

**Latest standardized assignees - inventors removed**

SOTRALENTZ

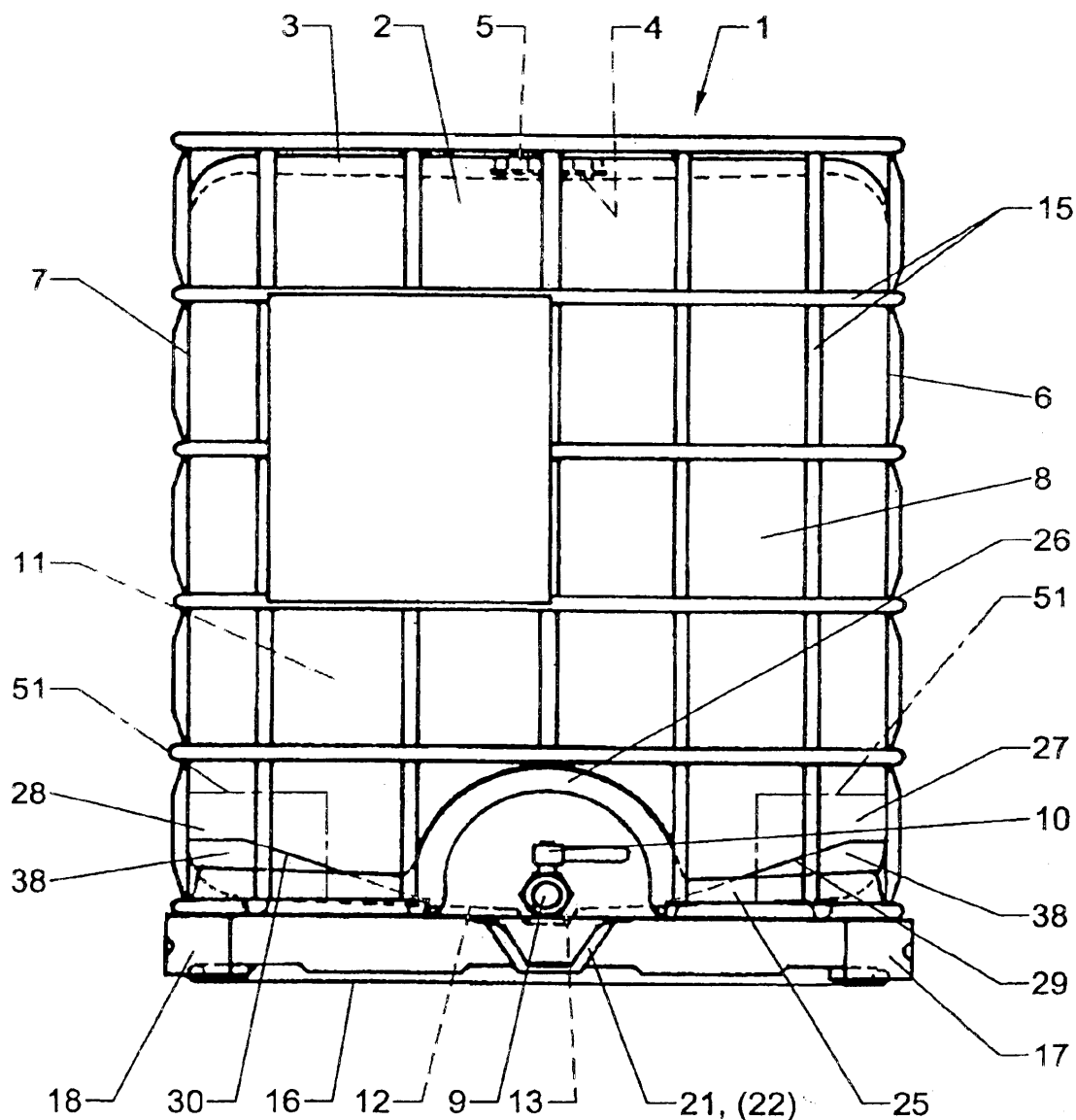
Family 40/100 - FAMPAT - ©Questel

Title

(EP1215133)

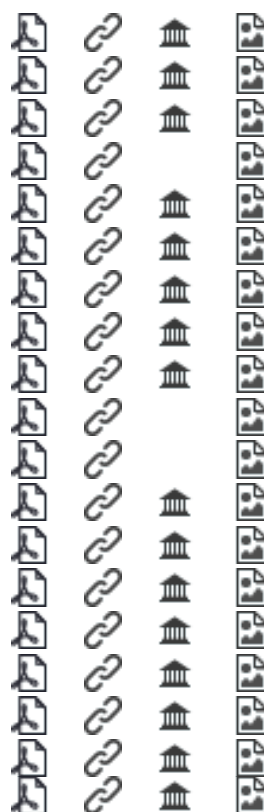
Transport and storage container for liquids

Images



Publication numbers with kind code & date

BR0106132	B1	2011-09-06	BR200106132
ES2348531	T3	2010-12-09	ES2348531
DE50115562	D1	2010-09-02	DE50115562
AT474788	T	2010-08-15	ATE474788
EP1215133	B1	2010-07-21	EP1215133
BRPI0106132	A2	2010-06-08	BR200106132
JP4425228	B2	2009-12-18	JP4425228
NO327916	B1	2009-10-19	NO-327916
IN1004/MAS/2001	A	2009-07-03	IN2001CH01004
PL201447	B1	2009-04-30	PL-201447
MY129020	A	2007-03-30	MY-129020
JP2006151517	A	2006-06-15	JP2006151517
JP3813868	B2	2006-06-09	JP3813868
CN1241804	C	2006-02-15	CN1241804C
AU783626	B2	2005-11-17	AU-783626
US20050087531	A1	2005-04-28	US20050087531
EP1215133	A3	2005-03-30	EP1215133
US6832693	B2	2004-12-21	US6832693



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

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 41/100 - FAMPAT - ©Questel

Title

(FR2319542)

PALLET CONTAINER

Images



NL187800	C	1992-01-16	NL-187800
NL187800	B	1991-08-16	NL-187800
IT1062547	B	1984-10-20	IT1062547
DK146883	C	1984-07-09	DK-146883C
DK146883	B	1984-01-30	DK-146883
FR2319542	B1	1983-02-18	FR2319542
NO146770	C	1982-12-08	NO-146770
NO146770	B	1982-08-30	NO-146770
FI58472	C	1981-02-10	FI--58472
FI58472	B	1980-10-31	FI--58472
AU509988	B2	1980-06-05	AU-509988
CA1069446	A	1980-01-08	CA1069446
GB1541141			



Abstract

(EP2514681)

The base frame has base (22) to support inner container (11), which comprises lower frame (25) with corner and middle supports (23,24). Each corner support has cup-like portion having cup portions with inward edge bar (29) bent at peripheral edge of front wall (26). The edge bar has lower and upper edge bar portions (30,31) curved according to corner radius of frame corner (27) of lower frame for connecting corner support with lower frame and base, and lateral edge bar portion which is formed between upper and lower edge bar portions at side margin of the front wall. Independent claims are included for the following: (1) transport and storage containers; and (2) method for manufacture of corner support.

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 43/100 - FAMPAT - ©Questel

Title

(EP-542110)

Pallet-mounted container

Images

	T	1996-02-15	ATE133630				
EP0542110	B1	1996-01-31	EP-542110				
CZ280215	B6	1995-12-13	CZ-280215				
YU97692	A	1995-10-03	YU9200976				
IL103689	B	1995-03-30	IL-103689				
CN1026678	C	1994-11-23	CN1026678C				
TW234105	B	1994-11-11	TW-234105				
AU653450	B2	1994-09-29	AU-653450				
HUT65862	A	1994-07-28	HU-T65862				
JP06048443	A	1994-02-22	JP06048443				
DE4237889	C2	1994-01-20	DE4237889				
PL296540	A1	1993-09-20	PL92296540				
CZ337692	A3	1993-09-15	CZ9203376				
KR930009869	A	1993-06-21	KR19930009869				
AU2835592	A	1993-06-17	AU9228355				
ZA9208758	B	1993-06-09	ZA9208758				
DE4237889	A1	1993-06-03	DE4237889				
CN1072147	A	1993-05-19	CN1072147				
EP0542110	A1	1993-05-19	EP-542110				
BR9204409	A	1993-05-18	BR9204409				
NO924362	L	1993-05-18	NO-924362				
CA2082888	A1	1993-05-15	CA2082888				
IL103689	A	1993-04-04	IL-103689				
HU9203494	D0	1993-01-28	HU9203494				
BRPI9204409	A1	1993-01-05	BR9204409				
NO924362	D0	1992-11-12	NO9204362				

Abstract

(EP0542110)

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 44/100 - FAMPAT - ©Questel

Title

(EP1544126)

Pallet container for transportation and storage of liquids

Images

EP1544126	A1	2005-06-22	EP1544126
NO20045338	L	2005-06-20	NO20045338
BRPI0405775	A1	2005-02-09	BR200405775

**Abstract**

(EP1544126)

Transporting and storage container for liquids has originality seal in form of convex moulding on bottom of subframe engaging in corresponding concavity in lower bottom region of plastic inner container

The transporting and storage container for liquids has an exchangeable inner container (2) of plastic standing on the bottom (22) of a pallet-like subframe (20). An originality seal in the form of at least one convex moulding (40) on the bottom of the subframe engages in a corresponding concavity (42) in the lower bottom region of the inner container. The convex moulding extends from the longitudinal edges of the subframe bottom at right angles to the longitudinal center plane of the subframe bottom.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

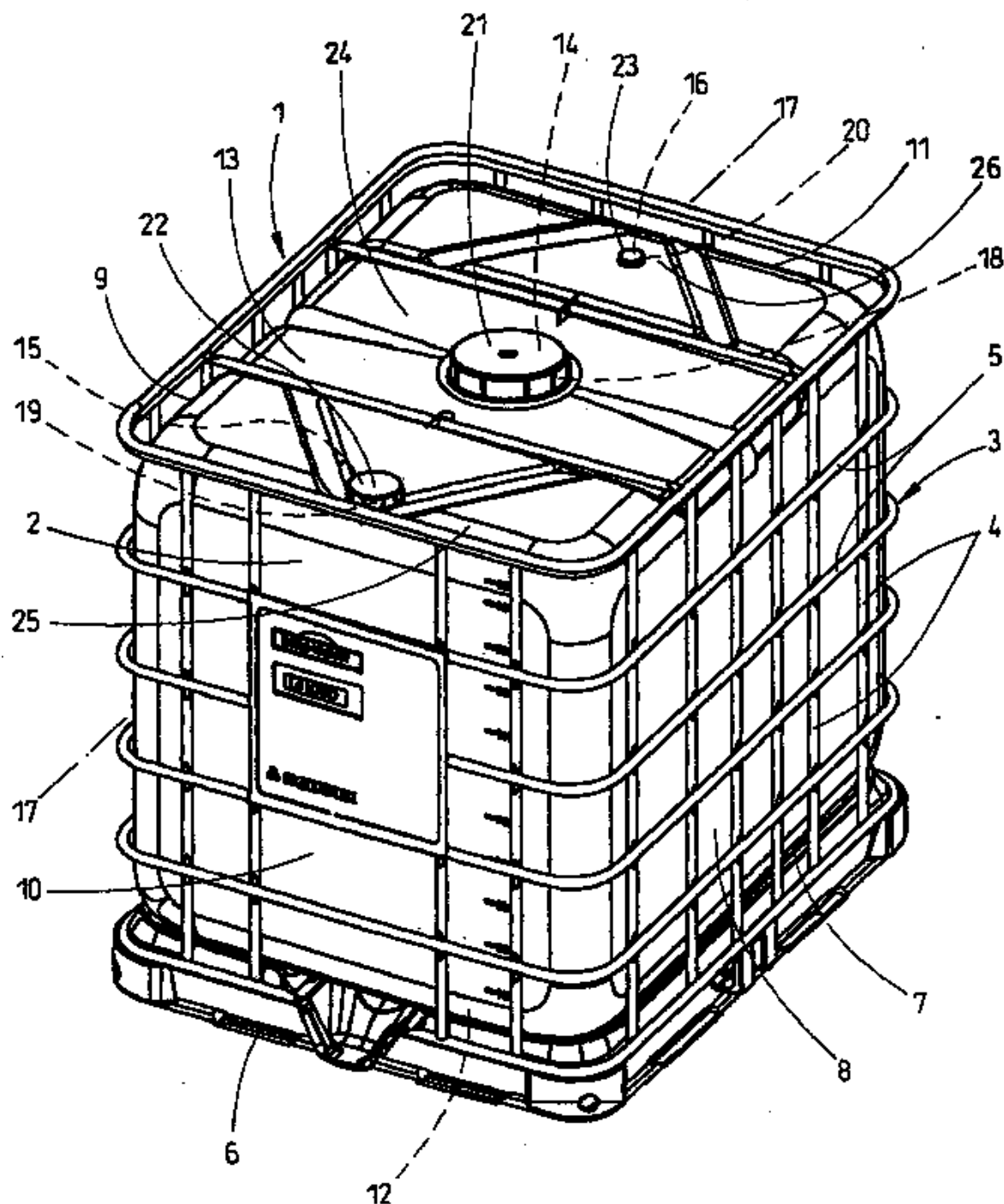
Family 45/100 - FAMPAT - ©Questel

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 numbers with kind code & 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

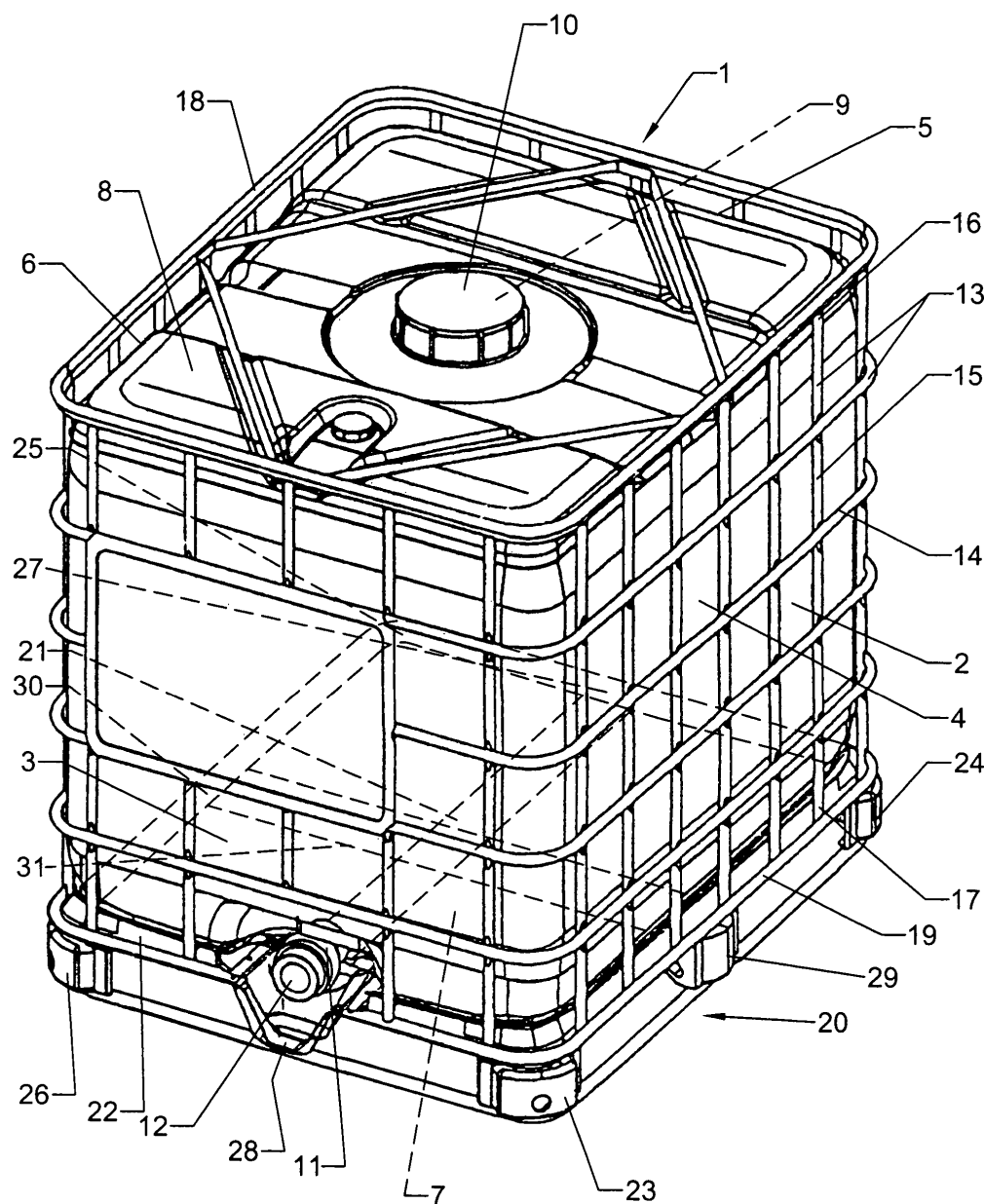
Family 46/100 - FAMPAT - ©Questel

Title

(EP1754670)

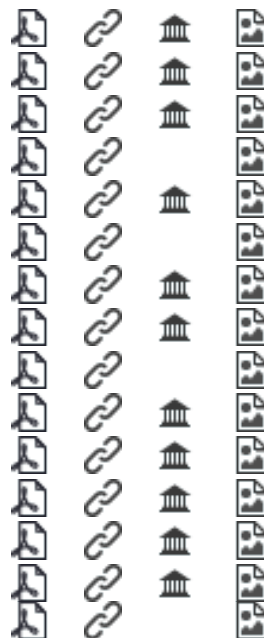
Transport and storage container for liquids

Images



Publication numbers with kind code & date

BRPI0603377	A2	2017-09-12	BRPI0603377
NO335024	B1	2014-08-25	NO-335024
US8490826	B2	2013-07-23	US8490826
MY146731	A	2012-09-14	MY-146731
ES2375634	T3	2012-03-02	ES2375634
AT529351	T	2011-11-15	ATE529351
EP1754670	B1	2011-10-19	EP1754670
JP4423279	B2	2009-12-11	JP4423279
RU2352506	C2	2009-04-20	RU2352506
IN231311	B	2009-03-27	IN-231311
CN100448760	C	2009-01-07	CN100448760C
AU2006203571	C1	2008-12-11	AU2006203571
AU2006203571	B2	2008-07-17	AU2006203571
IN1467/CHE/2006	A	2008-02-29	IN2006CH01467



RU2006129948	A	2008-02-27	RU2006129948				
ZA200606628	B	2007-12-27	ZA200606628				
EP1754670	A3	2007-11-21	EP1754670				
AR056038	A1	2007-09-12	AR--56038				
BRPI0603377	A	2007-04-10	BR200603377				
MXPA06009418	A	2007-03-23	MX2006PA009418				
AU2006203571	A1	2007-03-08	AU2006203571				
JP2007055688	A	2007-03-08	JP2007055688				
DE102006031940	A1	2007-03-01	DE102006031940				
US20070039955	A1	2007-02-22	US20070039955				
CN1915764	A	2007-02-21	CN1915764				
EP1754670	A2	2007-02-21	EP1754670				
NO20063717	L	2007-02-21	NO20063717				
BRPI0603377	A1	2006-10-03	BR200603377				

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 47/100 - FAMPAT - ©Questel

Title

(EP2520504)

Palette-style subframe for transport and storage container for fluids

Images

	T3	2014-06-05	ES2465492				
ZA201202805	B	2014-03-26	ZA201202805				
EP2520504	B1	2014-02-26	EP2520504				
AR086263	A1	2013-12-04	AR--86263				
CO6790235	A1	2013-11-14	CO6790235A1				
RU2012116055	A	2013-10-27	RU2012116055				
IN0799/MUM/2012	A	2013-02-01	IN2012MU00799				
BR102012010464	A1	2013-01-08	BR102012010464				
CN102815440	A	2012-12-12	CN102815440				
JP2012232801	A	2012-11-29	JP2012232801				
MX2012005130	A	2012-11-26	MX2012005130				
AU2012201718	A1	2012-11-22	AU2012201718				
KR20120125174	A	2012-11-14	KR20120125174				
DE102011075263	A1	2012-11-08	DE102011075263				
US20120279898	A1	2012-11-08	US20120279898				
EP2520504	A1	2012-11-07	EP2520504				

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.

(From EP2520504 A1)

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

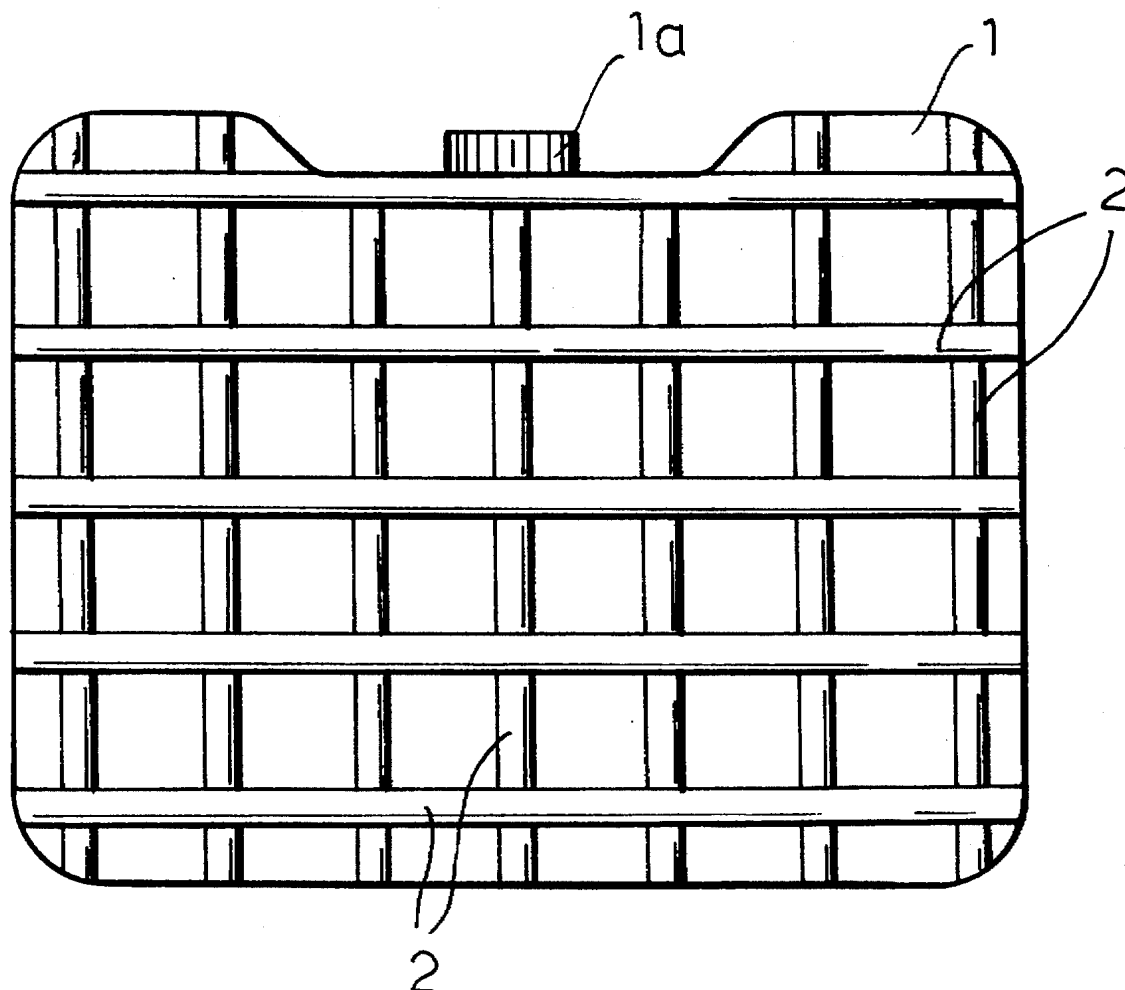
Family 48/100 - FAMPAT - ©Questel

Title

(EP-674470)

Process for producing a container made of thermoplastic, synthetic material for carrying hazardous fluid materials

Images



Publication numbers with kind code & date

ES2106577	T5	2004-12-01	ES2106577
EP0674470	B2	2004-04-07	EP-674470
DE4446585	C2	1998-07-16	DE4446585
ES2106577	T3	1997-11-01	ES2106577
DE59500456	D1	1997-09-11	DE59500456
EP0674470	B1	1997-08-06	EP-674470
US5634561	A	1997-06-03	US5634561
DE4446585	A1	1995-09-28	DE4446585
EP0674470	A1	1995-09-27	EP-674470
DE9405092	U1	1994-06-01	DE9405092



Abstract

(EP0674470)

The container (1) has an applied outer coating of an electrically conductive powder, which is sintered into the surface of the container, to provide an electrical conductivity which prevents electrostatic discharge. The coating may be applied to the full surface area of the coating, or is applied as perpendicular safety strips, encompassing the container in vertical and horizontal directions. The coating is pref. provided by Cu or Zn powder, the container used as a pallet container with a pallet (3) of wood, plastics, or steel having a wire mesh mantle (4), electrically coupled to the surface coating.

Inventors

PFEIFFER PIERRE

Latest standardized assignees - inventors removed

SOTRALENTZ

ES2387641	T3	2012-09-27	ES2387641				
IN0847/MUM/2010	A	2012-09-21	IN2010MU00847				
EP2388207	B1	2012-08-29	EP2388207				
AT556830	T	2012-05-15	ATE556830				
EP2239206	B1	2012-05-09	EP2239206				
EP2388207	A1	2011-11-23	EP2388207				
BRPI1001003	A2	2011-06-21	BR201001003				
AR076004	A1	2011-05-11	AR--76004				
EP2239206	A3	2011-02-23	EP2239206				
DE102009016451	B3	2011-01-20	DE102009016451				
RU2407690	C1	2010-12-27	RU2407690				
JP2010241507	A	2010-10-28	JP2010241507				
AU2010201234	A1	2010-10-21	AU2010201234				
CN101857122	A	2010-10-13	CN101857122				
EP2239206	A2	2010-10-13	EP2239206				
KR20100110742	A	2010-10-13	KR20100110742				
US20100252765	A1	2010-10-07	US20100252765				
MX2010003482	A	2010-10-05	MX2010003482				

Abstract

(EP2239206)

The armature (13) has a connecting flange made of non-conductive plastic. An armature housing is welded to a drain port of a cuboid inner container (2) through the flange. An electrical grounding element has ring segments integrated in an inner wall of the flange by an integrally constructed grounding lead made of electrically conductive plastic. A connecting bridge is recessed into a flange ring of the flange of the housing. A cable electrically connects the flange of the housing to a pallet-like base (7) and an outer casing (14) of a liquid transport and storage container (1). An independent claim is also included for a method for manufacturing a connecting flange and a grounding lead for an armature housing of a tapping armature.

(From EP2239206 A2)

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 50/100 - FAMPAT - ©Questel

Title

(EP-461666)

Pallet-mounted container

Images

Fig. 1

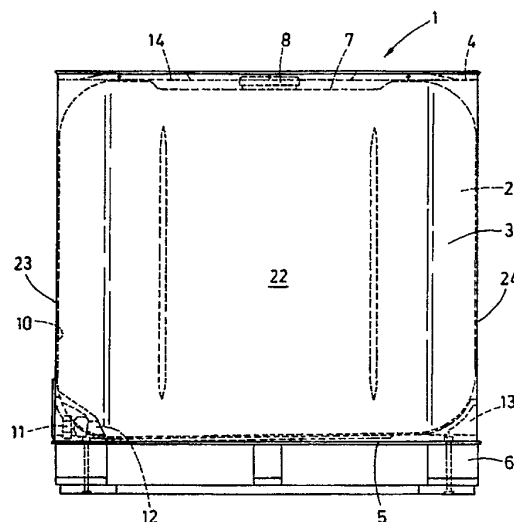
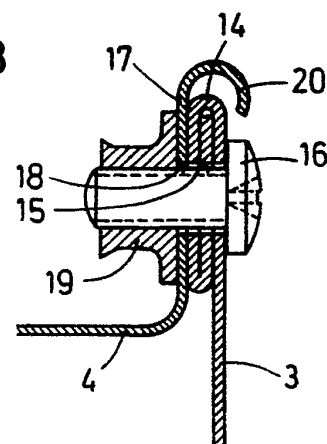


Fig. 3



Publication numbers with kind code & date

PT97969	B	1998-12-31	PT--97969
JP2671067	B2	1997-10-29	JP2671067
IE69363	B1	1996-09-04	IE--69363
YU47989	B	1996-08-13	YU--47989
BRPI9102455	B1	1995-10-31	BR9102455
PL165564	B1	1995-01-31	PL-165564
CA2044657	C	1994-12-27	CA2044657
YU106591	A	1994-11-15	YU9101065
IL98475	B	1994-01-25	IL--98475
ES2045989	T3	1994-01-16	ES2045989
CN1023465	C	1994-01-12	CN1023465C
DK0461666	T3	1993-12-27	DK-461666T
MX172170	B	1993-12-06	MX-172170
DE59100403	D1	1993-10-28	DE59100403
AT94839	T	1993-10-15	ATE094839
EP0461666	B1	1993-09-22	EP-461666
RU1838195	C	1993-08-30	RU1838195
SU1838195	A3	1993-08-30	SU1838195
PT97969	A	1993-06-30	PT--97969
JP05132063	A	1993-05-28	JP05132063
CZ278044	B6	1993-03-17	CZ-278044
US5133476	A	1992-07-28	US5133476
IL98475	A	1992-07-15	IL--98475
ZA9103944	B	1992-02-26	ZA9103944
BR9102455	A	1992-01-21	BR9102455
BRPI9102455	A1	1992-01-21	BRPI9102455
DE4019042	C1	1992-01-02	DE4019042
CN1057434	A	1992-01-01	CN1057434
EP0461666	A1	1991-12-18	EP-461666
IE912030	A1	1991-12-18	IE9102030
CS9101831	A2	1991-12-17	CS9101831

CA2044657	A1	1991-12-16	CA2044657
NO912264	L	1991-12-16	NO-912264
NO912264	D0	1991-06-12	NO9102264

**Abstract**

(EP0461666)

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

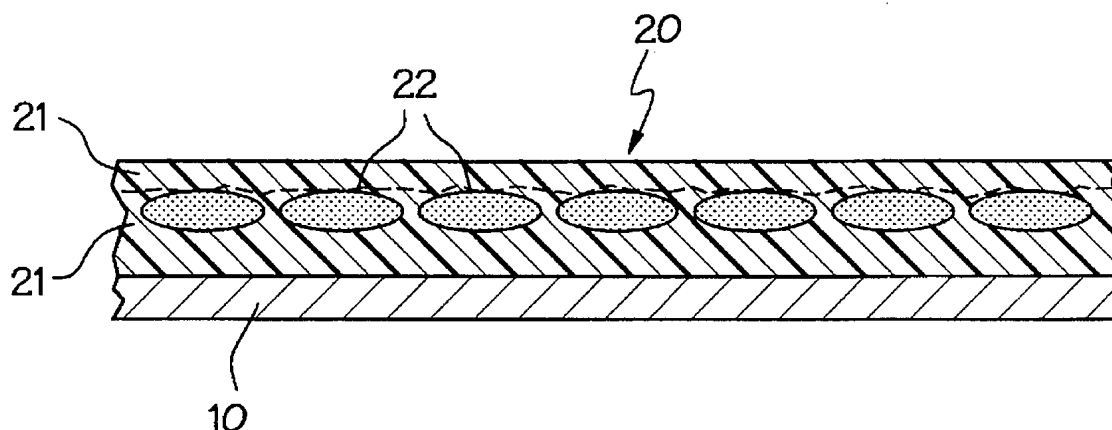
PROTECHNA

Family 51/100 - FAMPAT - ©Questel

Title

(US5628425)

Composite storage tank having double wall characteristics

Images**Publication numbers with kind code & date**

US5772938	A	1998-06-30	US5772938
US5628425	A	1997-05-13	US5628425

**Abstract**

(US5628425)

A composite storage tank is built which has double wall characteristics. A method of building the tank comprises the steps of applying a viscous resinous core material to a support surface and then winding onto, into or along with the viscous resinous core material discrete filament bundles. The resinous core material encapsulates the filament bundles, but does not significantly penetrate into an interior of the bundles. The substantially resin-free interiors provide flow paths for the ready detection of wall leakage. The resultant composite storage tank has double wall characteristics. A crack or hole in either an inside or outside surface which extends at least to the encapsulated filament bundle interiors will alert the tank's operator/owner to a leakage problem.

Inventors

SHARP BRUCE R

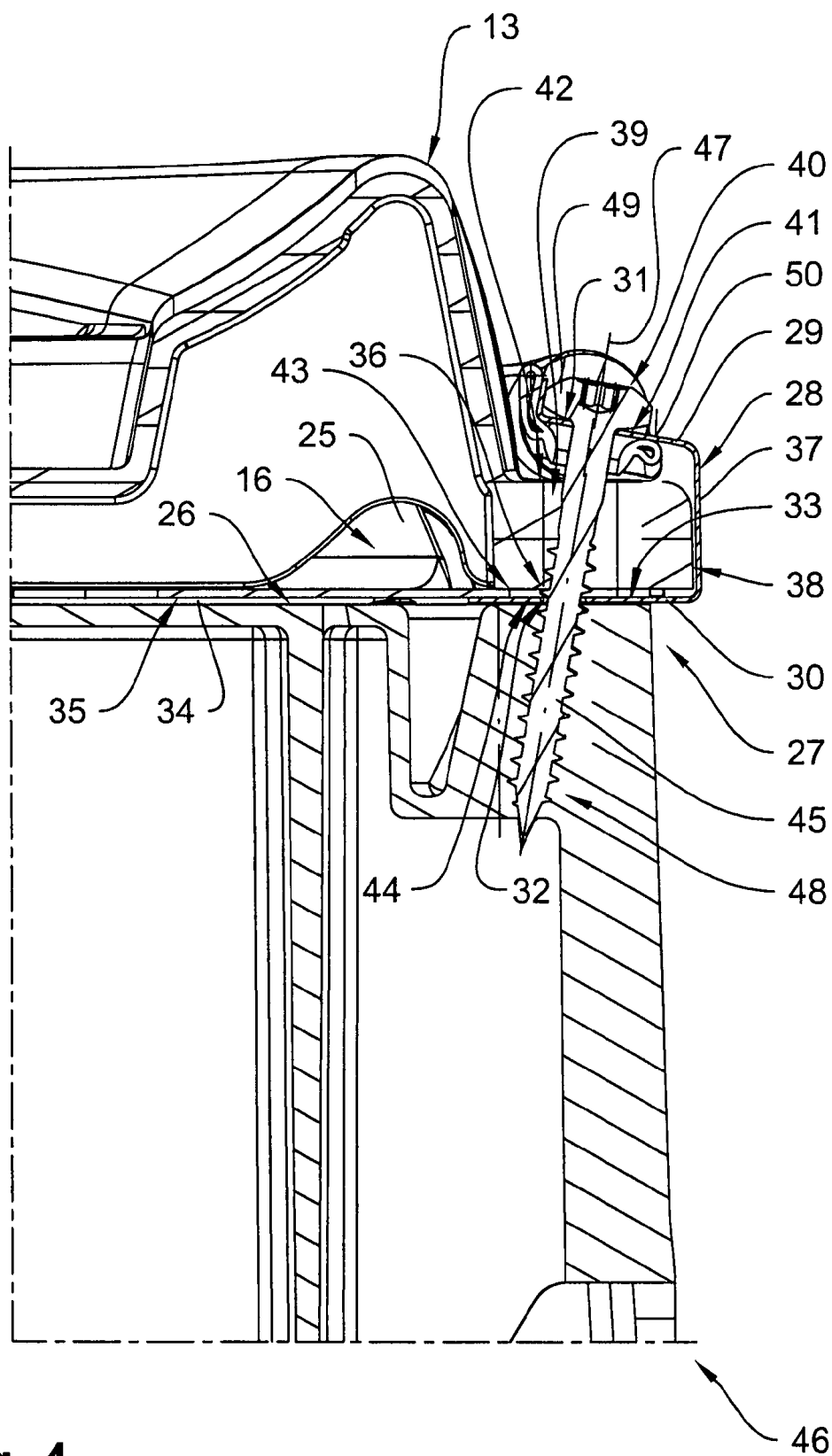
Family 52/100 - FAMPAT - ©Questel

Title

(EP3256400)

Pallet-type base for transportation and storage containers for liquids

Images



Publication numbers with kind code & date

EP3256400

A1 2017-12-20 EP3256400

MX2017010170

A 2017-11-09 MX2017010170



CN107207145	A	2017-09-26	CN107207145
AR103643	A1	2017-05-24	AR-103643
WO2016/128215	A1	2016-08-18	WO2016128215
DE202015000995	U1	2015-04-09	DE202015000995

**Abstract**

(EP3256400)

A pallet-type base, more particularly for transportation and storage containers for liquids, provided with an inner container made of plastic, with a closable filler neck and a discharge neck for connection to a drainage valve, wherein the base has an outer casing made of a metal grille or sheet, and a floor (13) for supporting the inner container, corner feet and central feet disposed between the corner feet, and a floor crossbeam (16), wherein at least the outer casing and the floor crossbeam are fastened to at least two central feet, wherein each central foot, the outer casing and the floor crossbeam are interlockingly fastened by means of a screw (45), wherein a clip (28) is provided which surroundingly engages the floor crossbeam (16) and a perimeter edge of the outer casing, and wherein the screw (45) passes through legs (29, 30) of the clip.

Inventors

PAUL ULRICH

Latest standardized assignees - inventors removed

PROTECHNA

Family 53/100 - FAMPAT - ©Questel

Title

(DE4414378)

Container for storing and transporting liquids

Images

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

Latest standardized assignees - inventors removed

PROTECHNA

Family 54/100 - FAMPAT - ©Questel

Title

(EP-893362)

transport and storage container for liquids

Images

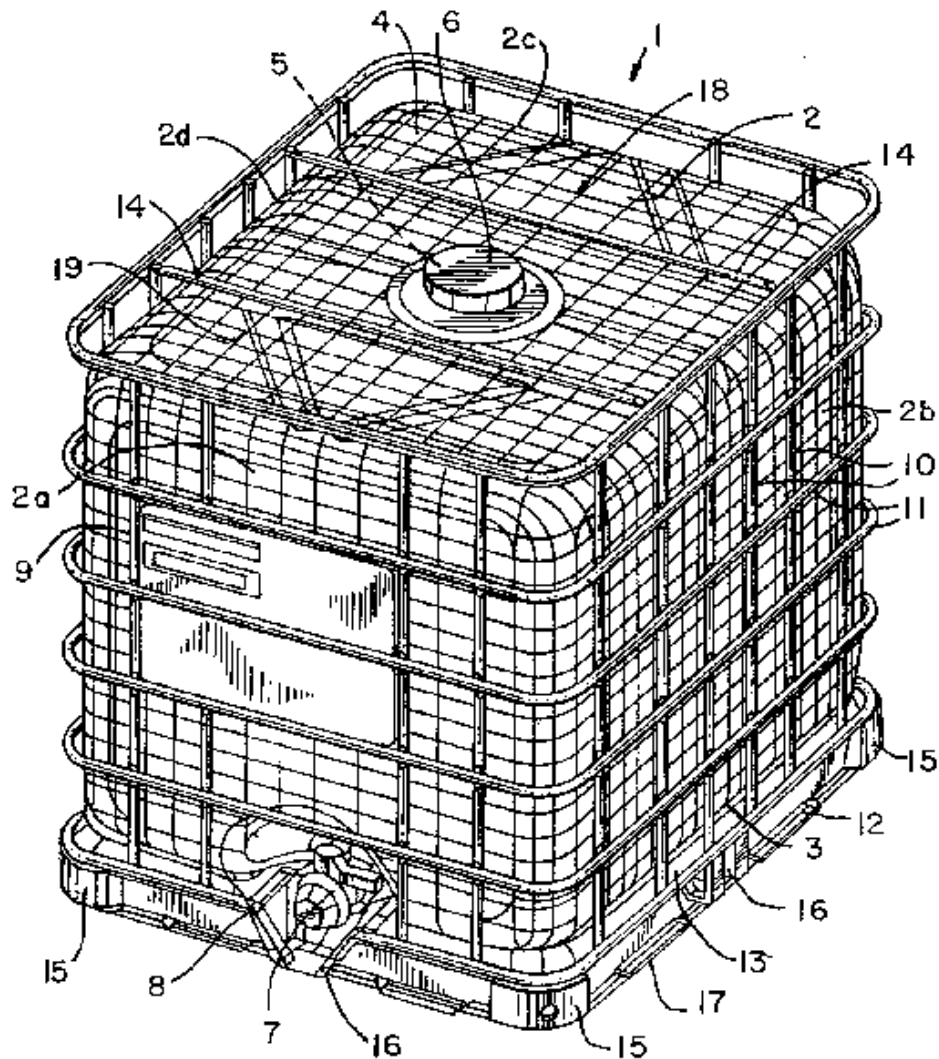


FIG. 1

Publication numbers with kind code & date

MY121348

A 2006-01-28 MY-121348



JP3661917	B2	2005-04-01	JP3661917				
BRPI9802547	A1	2005-02-09	BR199802547				
ES2186056	T3	2003-05-01	ES2186056				
DK0893362	T3	2003-04-22	DK-893362T				
DE59806792	D1	2003-02-06	DE59806792				
EP0893362	B1	2003-01-02	EP-893362				
HK1019057	A1	2002-10-18	HK1019057				
CN1079357	C	2002-02-20	CN1079357C				
DE19731518	C2	2002-02-07	DE19731518				
US6050437	A	2000-04-18	US6050437				
DE29724198	U1	2000-04-13	DE29724198				
AR008346	A1	1999-12-29	AR---8346				
RU2139827	C1	1999-10-20	RU2139827				
BR9802547	A	1999-10-19	BR9802547				
CN1221699	A	1999-07-07	CN1221699				
JP11105871	A	1999-04-20	JP11105871				
DE19731518	A1	1999-02-04	DE19731518				
PL327488	A1	1999-02-01	PL98327488				
EP0893362	A1	1999-01-27	EP-893362				
NO983380	L	1999-01-25	NO-983380				
NO983380	D0	1998-07-22	NO9803380				

Abstract

(EP0893362)

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

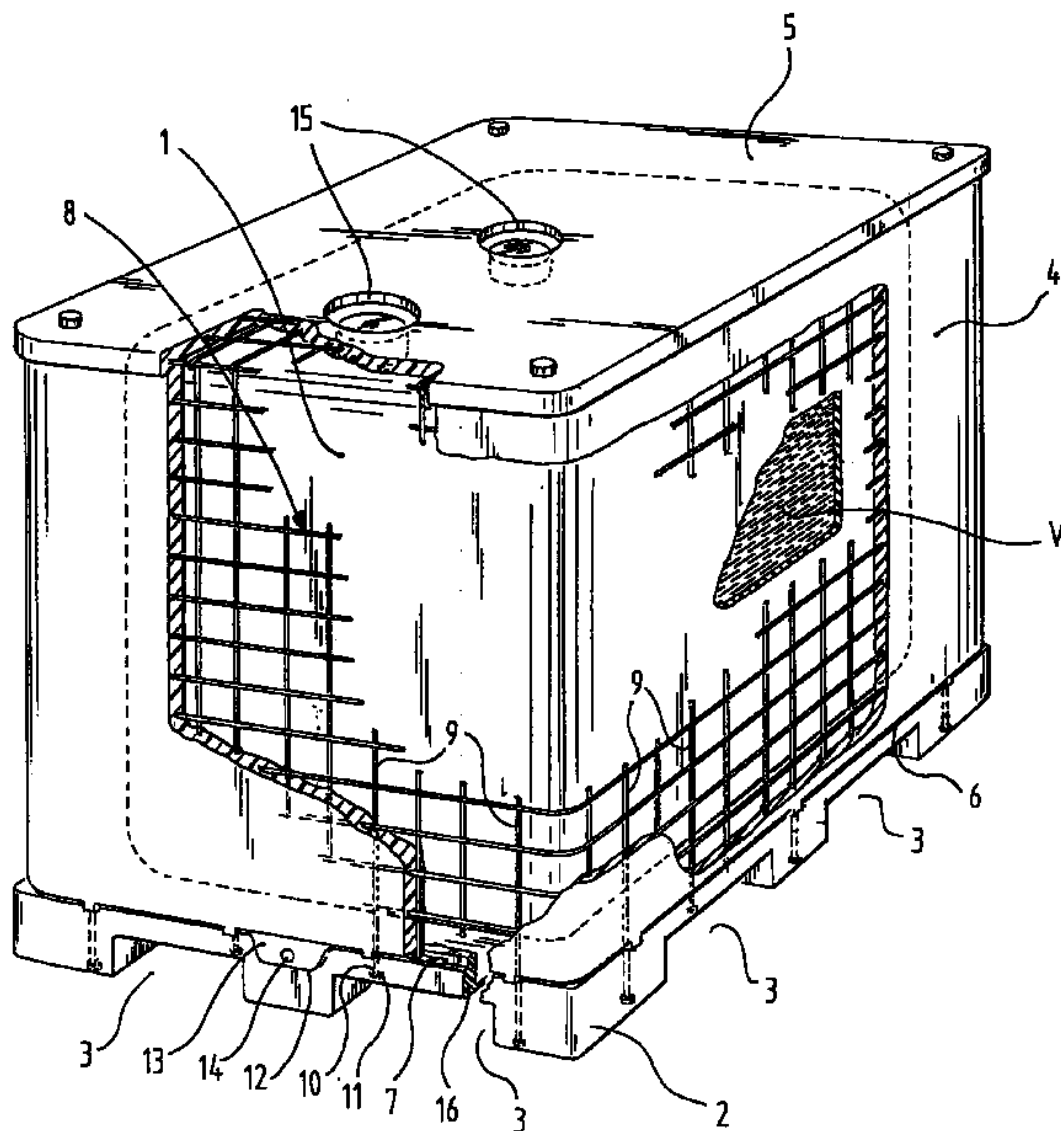
Family 55/100 - FAMPAT - ©Questel

Title

(EP-857666)

Container for liquids

Images



Publication numbers with kind code & date

EP0857666	A1	1998-08-12	EP-857666
DE19801969	A1	1998-08-06	DE19801969
NL1005077	C2	1998-07-27	NL1005077
DE29800800	U1	1998-05-07	DE29800800



Abstract

(EP0857666)

The canister (1) consists of an approximately cubic metal container, which has filling and emptying holes (15) and a thick outer liquid-tight recycled plastics protective transport sheath. The walls and base of the sheath are reinforced by rods (8) to form a mesh. The rods in the outer sheath extend vertically downwards to wrap under the base and provide fixtures and reinforcements for fixtures, e.g. nuts. A supplementary transport base (2) section is tightly attached to the sheath, and has indentations (3) for the forks of a forklift truck. The upper part of the metal container is protected by a rod-reinforced plastics cover (5) bolted to the lower section.

Inventors

SCHILTHUIZEN STEPHANUS FRANCIS

Latest standardized assignees - inventors removed

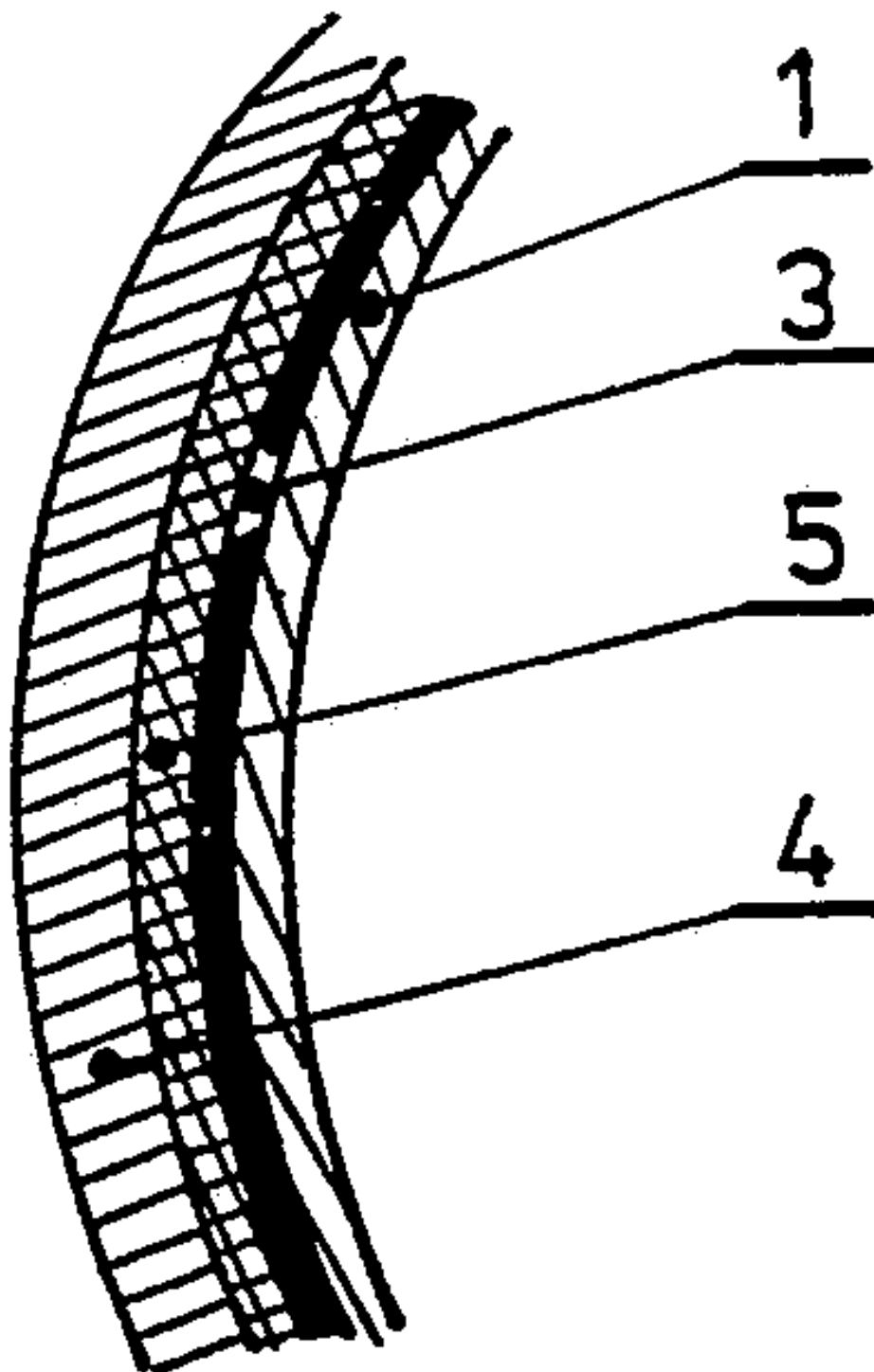
MAUSER WERKE

Family 56/100 - FAMPAT - ©Questel

Title

(EP-596012)

Combustible liquids storage container.

Images**Publication numbers with kind code & date**

EP0596012	A1	1994-05-11	EP-596012
WO93/02950	A1	1993-02-18	WO9302950
DE4125524	A1	1993-02-04	DE4125524

**Abstract**

(EP0596012)

A storage container for liquid fuels has a mechanical force-absorbing outer wall (4) whose inner face is provided with an

RU2012116056	A	2013-10-27	RU2012116056				
IN0800/MUM/2012	A	2013-02-01	IN2012MU00800				
BR102012010475	A1	2013-01-08	BR102012010475				
JP2012232799	A	2012-11-29	JP2012232799				
MX2012005129	A	2012-11-26	MX2012005129				
KR20120125175	A	2012-11-14	KR20120125175				
DE102011075266	A1	2012-11-08	DE102011075266				
US20120279885	A1	2012-11-08	US20120279885				
CN102765531	A	2012-11-07	CN102765531				
EP2520512	A1	2012-11-07	EP2520512				

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.

(From EP2520512 A1)

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

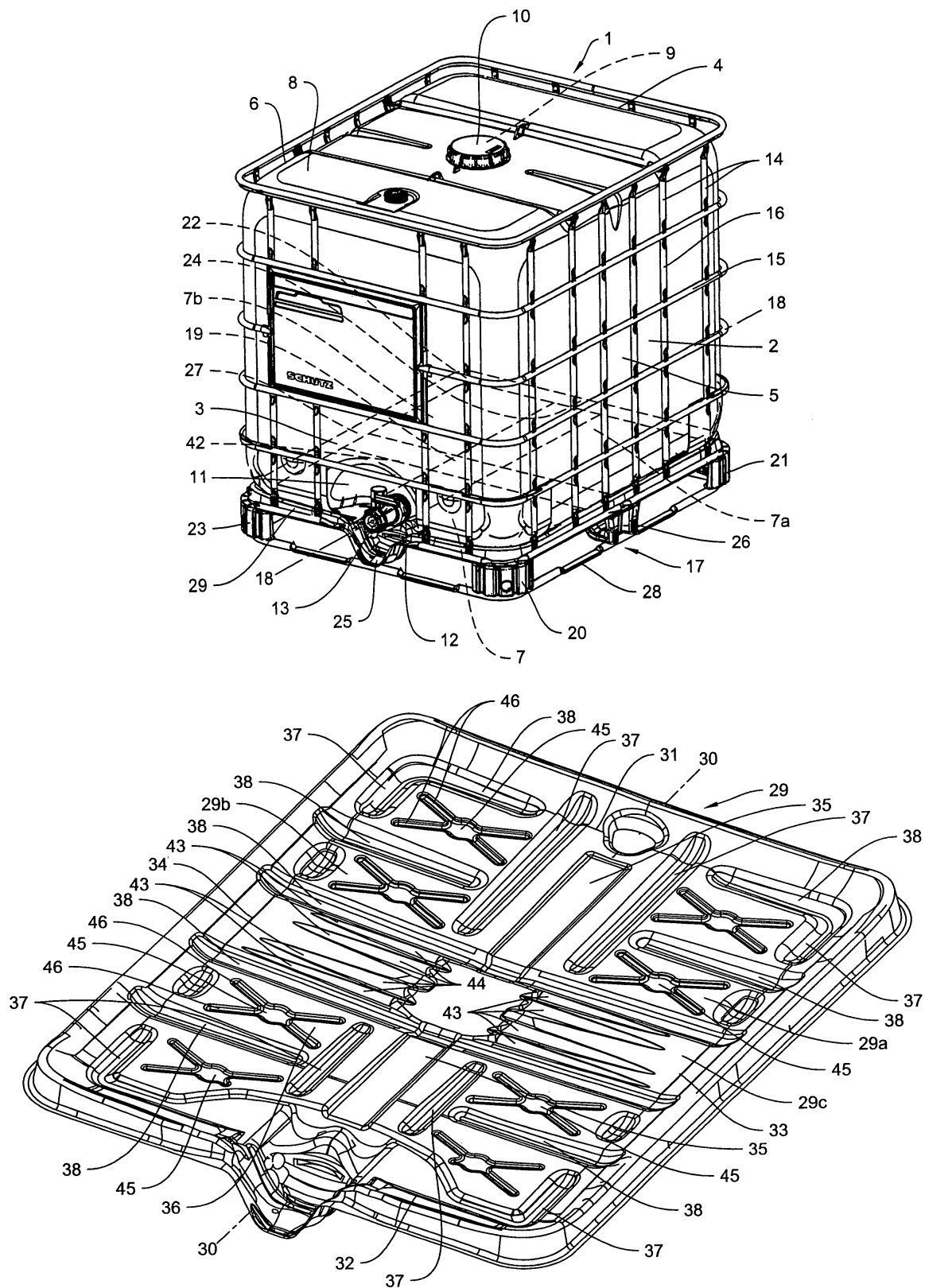
Family 58/100 - FAMPAT - ©Questel

Title

(EP2096044)

Transport and storage container for fluids

Images



Publication numbers with kind code & date

BRPI0900697	B1	2018-12-18	BR200900697
IN272616	B	2016-04-15	IN-272616
US8863972	B2	2014-10-21	US8863972
CN101519149	B	2013-06-12	CN101519149B
JP5052546	B2	2012-08-03	JP5052546
AU2009200787	B2	2011-10-27	AU2009200787
MY143233	A	2011-04-15	MY-143233



PL2096044	T3	2010-10-29	PL2096044				
RU2397931	C1	2010-08-27	RU2397931				
ES2342514	T3	2010-07-07	ES2342514				
DE502009000008	D1	2010-05-20	DE502009000008				
AT463441	T	2010-04-15	ATE463441				
AR070528	A1	2010-04-14	AR--70528				
EP2096044	B1	2010-04-07	EP2096044				
BRPI0900697	A2	2010-01-19	BR200900697				
ZA200900756	B	2009-12-30	ZA200900756				
DE102008027337	A1	2009-09-17	DE102008027337				
IN0409/CHE/2009	A	2009-09-11	IN2009CH00409				
AU2009200787	A1	2009-09-10	AU2009200787				
JP2009202946	A	2009-09-10	JP2009202946				
MX2009002139	A	2009-09-03	MX2009002139				
CN101519149	A	2009-09-02	CN101519149				
EP2096044	A1	2009-09-02	EP2096044				
US20090212048	A1	2009-08-27	US20090212048				

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

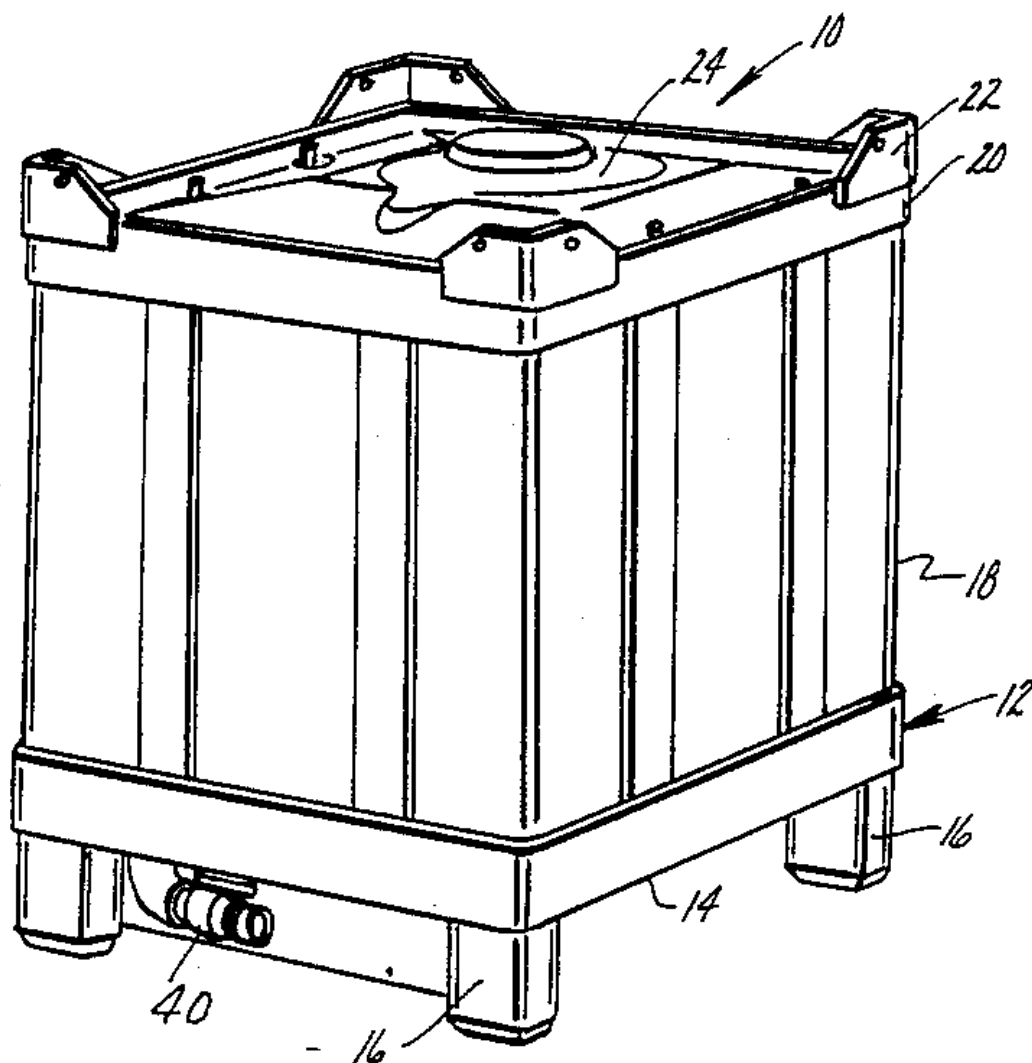
Family 59/100 - FAMPAT - ©Questel

Title

(US4648521)

Composite metal and plastic tank

Images

**Publication numbers with kind code & date**[US4648521](#)

A 1987-03-10 US4648521

**Abstract**

(US4648521)

A composite metal and plastic tank consisting of a metal frame assembly with a replaceable hollow plastic container mounted therein. The plastic container has downwardly inclined flow channels formed in its base to insure complete drainage of the container when desired and the bottom wall of the frame assembly is flat to enable handling of the tank with conventional fork lift equipment. A comprehensive dunnage plate is interposed in the frame assembly between the container base and the frame bottom wall.

Inventors

THOMAS LARRY D

WALTKE DAVID L

GIBSON GARY

Latest standardized assignees - inventors removed

HOOVER UNIVERSAL

HOOVER MATERIALS HANDLING

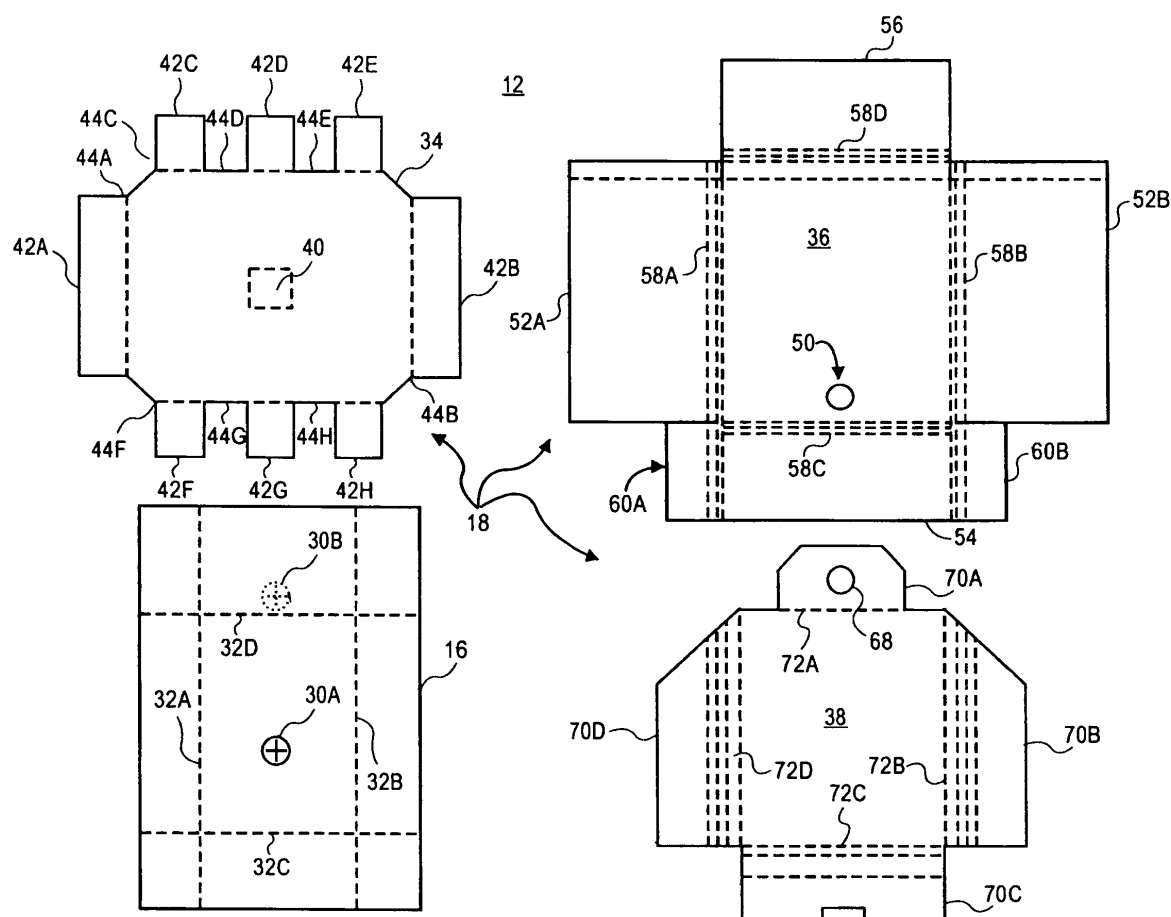
Family 60/100 - FAMPAT - ©Questel

Title

(US7766180)

Collapsible bulk cage liner

Images



Publication numbers with kind code & date

US7766180

B2 2010-08-03 US7766180

US20080067176

A1 2008-03-20 US20080067176



Abstract

(US20080067176)

A liner cassette for use with an existing intermediate bulk container includes a box and a liner. The box is configured to unfold within the intermediate bulk container and the liner is configured to fit within the box. The liner cassette includes two configurations. In a first configuration, the box and liner may be folded substantially flat to facilitate transportation. In a second configuration, the box and liner are configured to provide a liquid containment system for the existing intermediate bulk container.

Inventors

MANSOURI JAMES

APOSTOLUK PETER

NELSON ERIC

Latest standardized assignees - inventors removed

GREIF

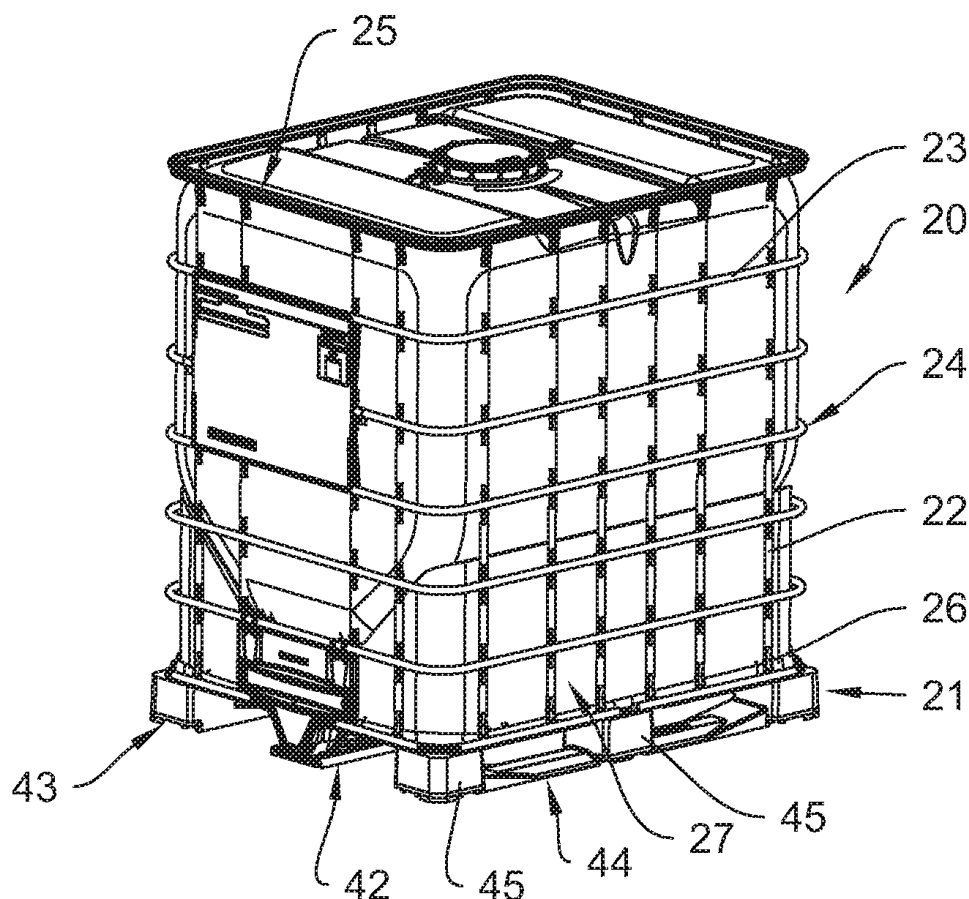
Family 61/100 - FAMPAT - ©Questel

Title

(EP3016884)

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

Images



Publication numbers with kind code & date

CN105358446	B	2018-04-17	CN105358446B
PL3016884	T3	2017-11-30	PL3016884
ES2637477	T3	2017-10-13	ES2637477
EP3016884	B1	2017-06-14	EP3016884
US20160368684	A1	2016-12-22	US20160368684
EP3016884	A1	2016-05-11	EP3016884
CN105358446	A	2016-02-24	CN105358446
AR096804	A1	2016-02-03	AR--96804
DE102013213167	A1	2015-01-22	DE102013213167
WO2015/001042	A1	2015-01-08	WO201501042



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

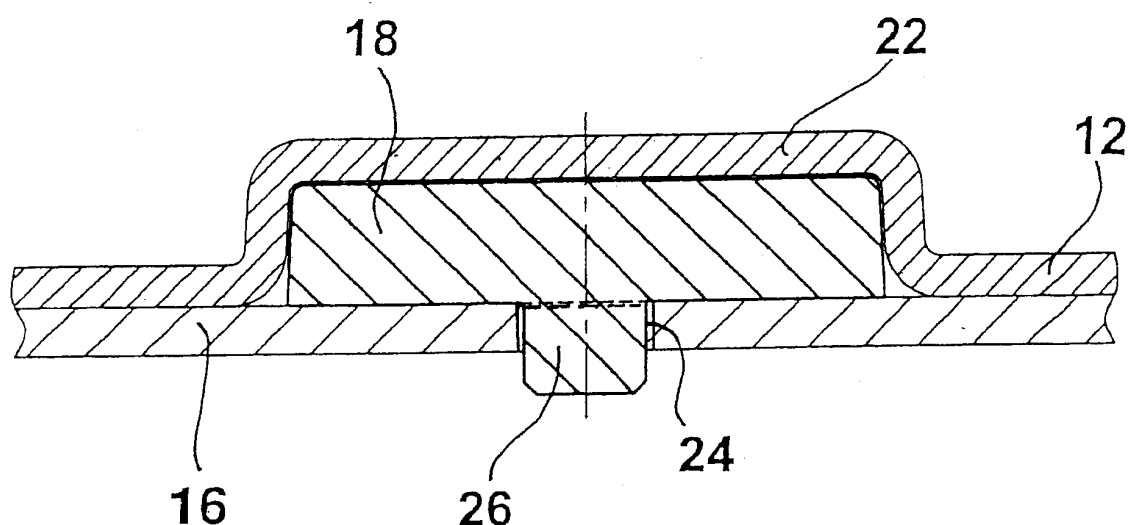
Family 62/100 - FAMPAT - ©Questel

Title

(EP1826138)

Inner container for a pallet container

Images



Publication numbers with kind code & date

BR0115561	B1	2012-09-04	BR200115561
BRPI0115561	A2	2012-02-14	BR200115561
CA2429637	C	2011-02-15	CA2429637
US7648040	B2	2010-01-19	US7648040
NO327787	B1	2009-09-21	NO-327787
JP4248235	B2	2009-01-23	JP4248235
IL156061	B	2008-07-08	IL-156061
KR100805856	B1	2008-02-21	KR100805856
ES2290200	T3	2008-02-16	ES2290200
IN211605	B	2007-12-28	IN-211605
DK1343703	T3	2007-10-29	DK1343703T
DE50112772	D1	2007-09-06	DE50112772
EP1826138	A1	2007-08-29	EP1826138
AT367981	T	2007-08-15	ATE367981
EP1343703	B1	2007-07-25	EP1343703
AU2002221885	B2	2007-05-24	AU2002221885
US20060272970	A1	2006-12-07	US20060272970
US7108133	B2	2006-09-19	US7108133
CZ296308	B6	2006-02-15	CZ-296308
IN0793/CHENP/2003	A	2005-04-15	IN2003CN00793
IN1938/CHENP/2002	A	2005-02-11	IN2002CN01938



US20040154943	A1	2004-08-12	US20040154943				
CZ20031539	A3	2004-07-14	CZ200301539				
ZA200304399	B	2004-06-21	ZA200304399				
JP2004514606	A	2004-05-20	JP2004514606				
US6719162	B2	2004-04-13	US6719162				
CN1486267	A	2004-03-31	CN1486267				
MXPA03004536	A	2004-03-26	MX2003PA004536				
IL156061	A	2003-12-23	IL-156061				
HU0302662	A2	2003-11-28	HU200302662				
ZA200210357	B	2003-11-06	ZA200210357				
ZA200210358	B	2003-11-06	ZA200210358				
DE10195050	D2	2003-10-09	DE10195050				
EP1343703	A1	2003-09-17	EP1343703				
BR0115561	A	2003-09-16	BR200115561				
BRPI0115561	A1	2003-09-16	BRPI0115561				
KR20030070036	A	2003-08-27	KR20030070036				
NO20032260	A	2003-07-17	NO200302260				
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US20030015529	A1	2003-01-23	US20030015529				
US20030010661	A1	2003-01-16	US20030010661				
US20030006235	A1	2003-01-09	US20030006235				
AU2188502	A	2002-06-03	AU200221885				
CA2429637	A1	2002-05-30	CA2429637				
WO02/42178	A1	2002-05-30	WO200242178				
JP2001341741	A	2001-12-11	JP2001341741				
DE10103656	A1	2001-12-06	DE10103656				
DE20017895	U1	2001-01-04	DE20017895				

Abstract

(EP1826138)

The pallet container with a thin-walled plastic inner container (12) for liquid or runny substances, and an outer support frame in the form of a pipe lattice comprises means (28, 30) which enhance the resistance to slipping of the inner container on the bottom pallet (16) or on a corresponding intermediate plate.

Inventors

PRZYTULLA DIETMAR

Latest standardized assignees - inventors removed

MAUSER WERKE

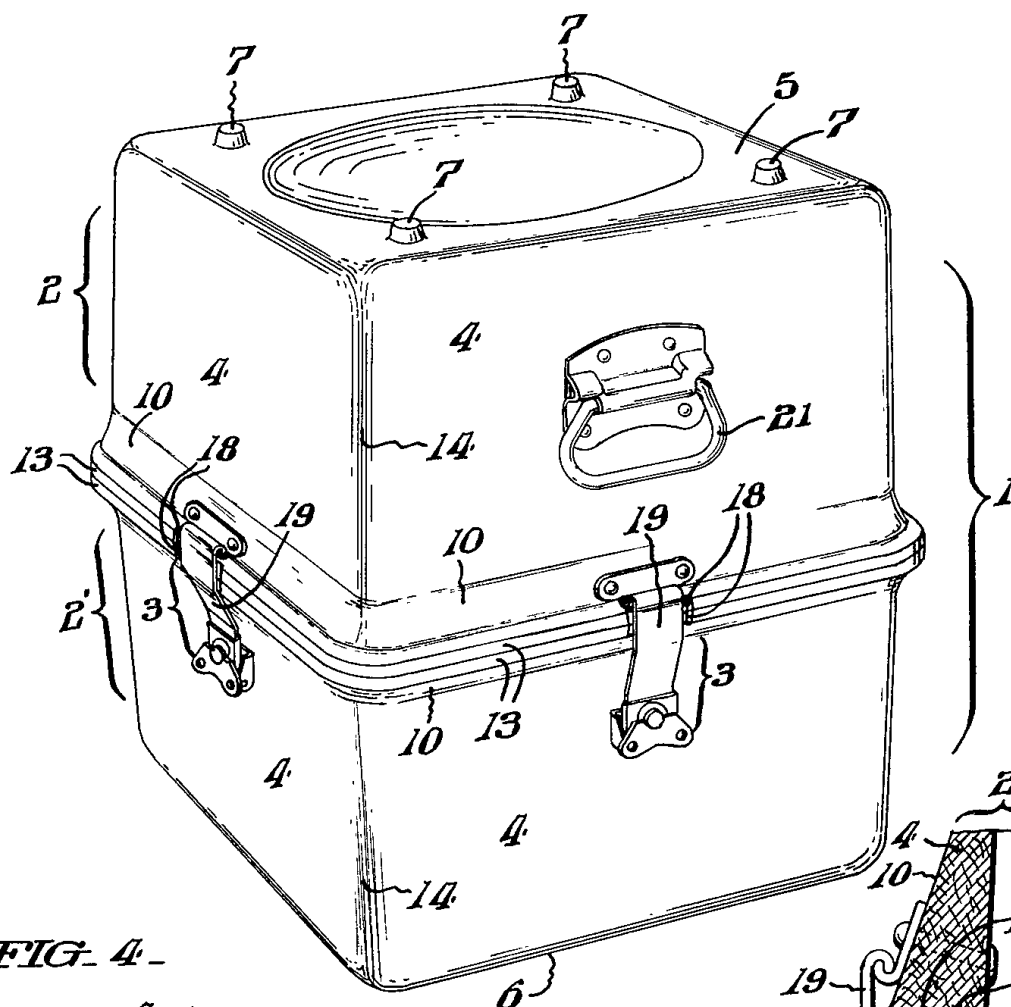
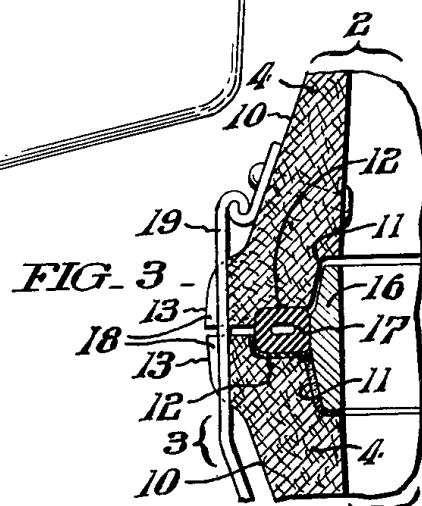
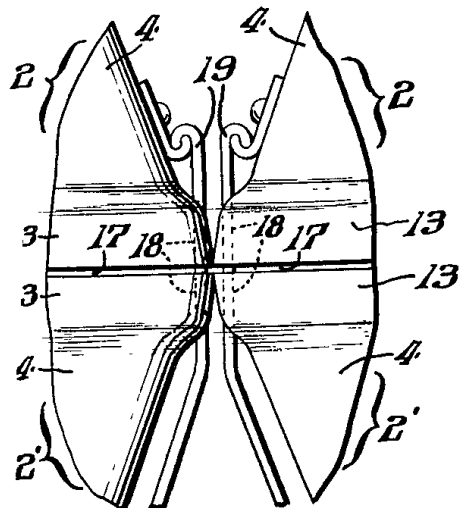
Family 63/100 - FAMPAT - ©Questel

Title

(US2939603)

Plastic containers

Images

FIG. 1**FIG. 4 -**

INVENTOR. *Serenus H. A. Young*
 BY *Paul & Paul*
 ATTORNEYS

Publication numbers with kind code & date

[US2939603](#)

A 1960-06-07 US2939603



Inventors

YOUNG SERENUS H A

Latest standardized assignees - inventors removed

VARIOUS ASSIGNEES

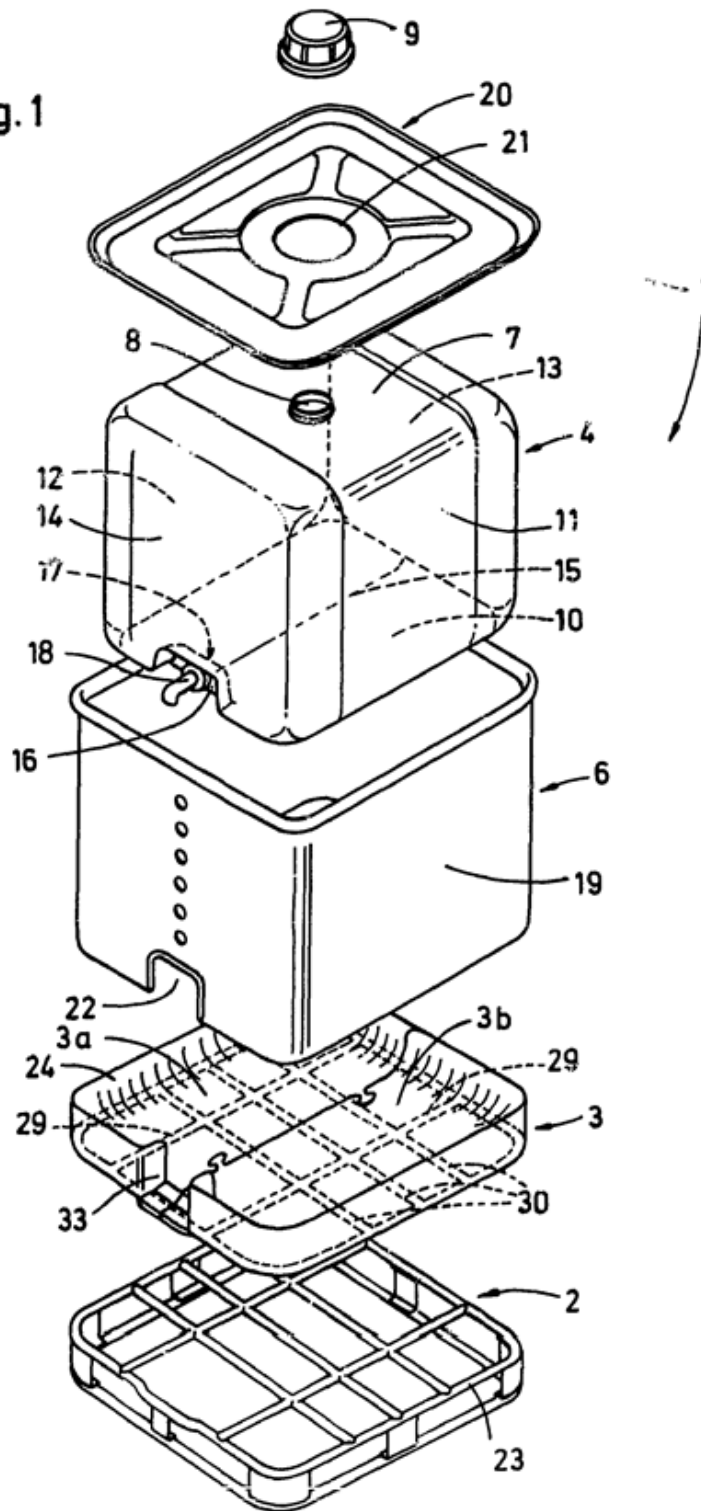
Family 64/100 - FAMPAT - ©Questel

Images

90 319
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22.02.90

Fig.1

**Publication numbers with kind code & date**

DE9002099

U1 1990-04-26 DE9002099

**Latest standardized assignees - inventors removed**

SCHUETZ WERKE

Family 65/100 - FAMPAT - ©Questel

Title

(EP-656299)

Metallic container for transporting and storing liquids

Images

RU94042900	A	1996-10-20	RU94042900			
RU94042900	A1	1996-10-20	RU94042900			
LV11159	B	1996-08-20	LV--11159			
CZ281036	B6	1996-05-15	CZ-281036			
JP08104329	A	1996-04-23	JP08104329			
LV11159	A	1996-04-20	LV--11159			
US5503322	A	1996-04-02	US5503322			
EP0656299	A3	1996-03-20	EP-656299			
EE9400215	A	1996-02-15	EE9400215			
US5467884	A	1995-11-21	US5467884			
CZ292994	A3	1995-11-15	CZ9402929			
CN1111209	A	1995-11-08	CN1111209			
HUT69547	A	1995-09-28	HU-T69547			
ZA9409080	B	1995-08-18	ZA9409080			
BR9404841	A	1995-08-01	BR9404841			
TW252084	B	1995-07-21	TW-252084			
KR950017666	A	1995-07-20	KR19950017666			
SK148594	A3	1995-07-11	SK9401485			
AU8020894	A	1995-06-15	AU9480208			
PL306081	A1	1995-06-12	PL94306081			
DE4341338	A1	1995-06-08	DE4341338			
EP0656299	A2	1995-06-07	EP-656299			
NO944640	L	1995-06-06	NO-944640			
CA2137215	A1	1995-06-05	CA2137215			
HU9403460	D0	1995-02-28	HU9403460			
BRPI9404841	A1	1995-02-14	BR9404841			
IL111716	A	1995-01-24	IL-111716			
NO944640	D0	1994-12-02	NO9404640			

Abstract

(EP0656299)

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 66/100 - FAMPAT - ©Questel

Title

(EP2418391)

Tube fixing for connecting a tube with a support structure and transport and storage container with such a tube fixing

direction of fastening axis (21). Independent claims are included for the following: (1) manufacturing method of fastening device; and (2) transport and storage container.

(From EP2418391 A1)

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 67/100 - FAMPAT - ©Questel

Title

(EP-546145)

Flexible container for bulk materials

Images

AT138875	T	1996-06-15	ATE138875
EP0546145	B1	1996-06-05	EP-546145
US5458419	A	1995-10-17	US5458419
JPH06503057	A	1994-04-07	JP06503057
EP0546145	A1	1993-06-16	EP-546145
DE4221380	A1	1993-03-11	DE4221380
WO93/01110	A1	1993-01-21	WO9301110
DE4211711	A1	1993-01-07	DE4211711
DE9208593	U1	1992-10-29	DE9208593
DE9108091	U1	1991-09-12	DE9108091



Abstract

(EP0546145)

The invention concerns a flexible bulk-material container (1) with a main body (2) enclosing a space for the material. The container is filled and emptied through inlet-pipe and outlet-pipe assemblies (3, 4), for instance, and can be hoisted by means of lifting loops (5) or similar devices. The main body is made of textile fabric, in particular a polypropylene fabric, which is preferably coated and which is electrically conducting by virtue of conductors incorporated in it. The fabric used is a strip fabric in which, in the warp or weft, at intervals of 30 mm at the most, a fabric strip (6, 7) is replaced by an electrically conducting strip (8) designed as the electrical conductor and made of plastic sheet with substantially the same lateral dimension as the fabric strip (6, 7) and/or the electrically conducting strip is associated with the fabric strip (6, 7) in a substantially corresponding array.

Inventors

TREPTE PETER

ALTEPPING JOSEF

LUETTGENS GUENTER

Latest standardized assignees - inventors removed

EMPAC VERPACKUNGS

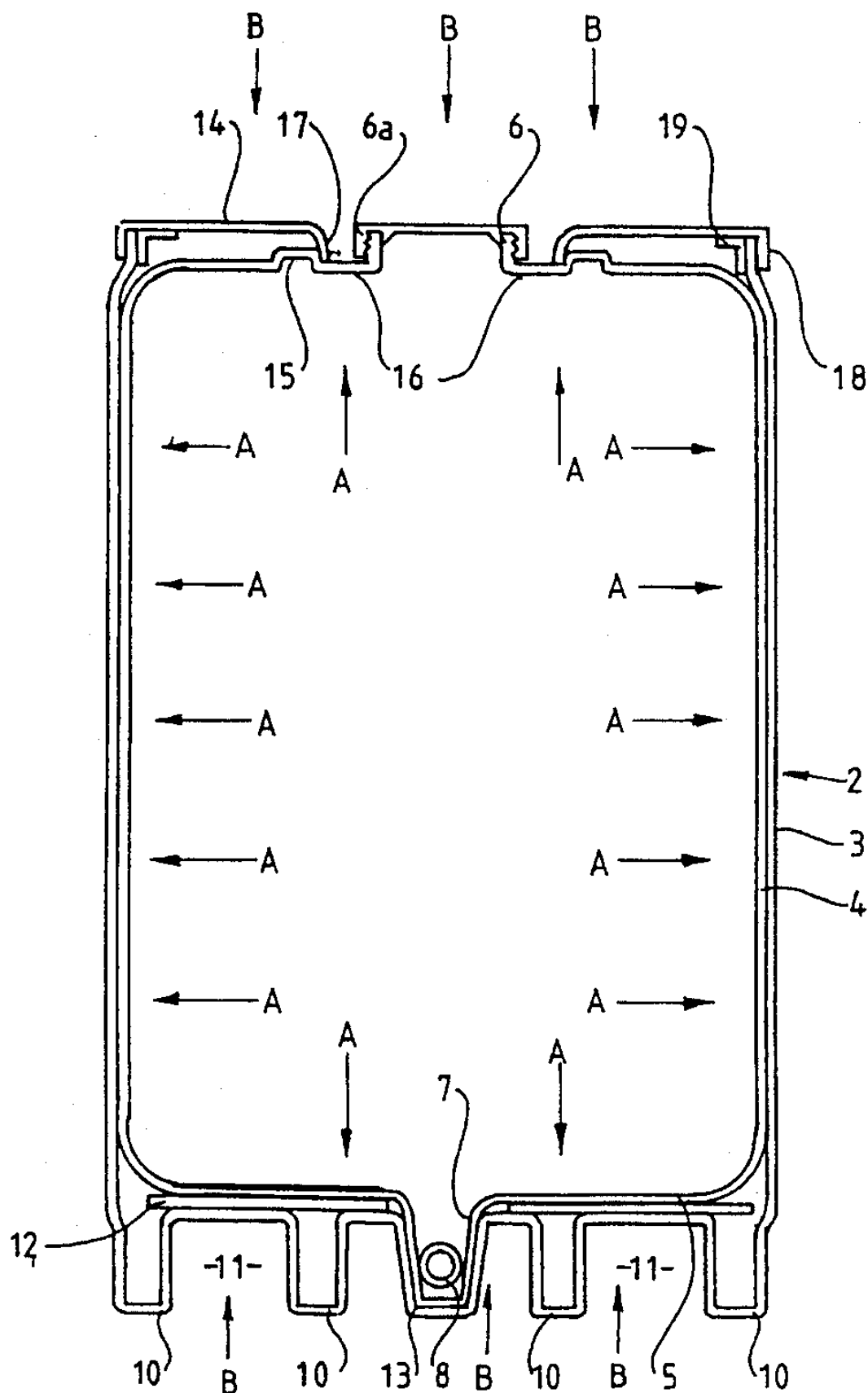
Family 68/100 - FAMPAT - ©Questel

Title

(US5465865)

Stackable bulk transport container

Images



Publication numbers with kind code & date

[US5465865](#)

A 1995-11-14 US5465865



Abstract

(US5465865)

A stackable composite container consists of a cylindrical inner container having walls of a thickness capable of fully supporting the pressures of any contained liquid and an outer container enclosing the inner container and being of rectangular cross-section and of a strength adequate for withstanding stacking pressures but inadequate for withstanding

the pressures of the contained liquid in the absence of the inner container. The outer container is provided with a plurality of spaced inwardly projecting ribs in supportive contact with the outer wall of the inner container. The base of the outer container has fork-lift tine pockets. There is a means for filling the inner container, and a means for emptying the inner container, both means being accessible from the outer container exterior.

Inventors

COOMBES IAN R

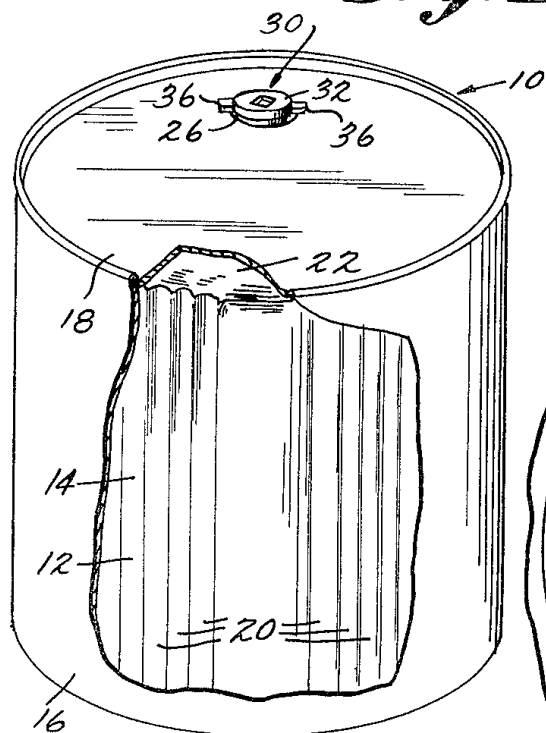
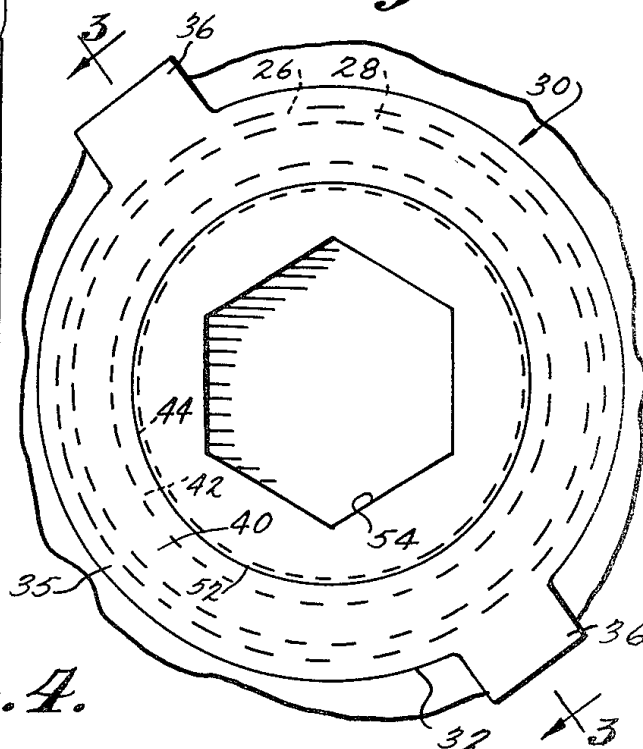
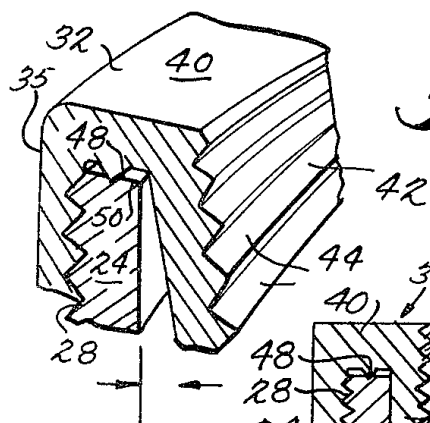
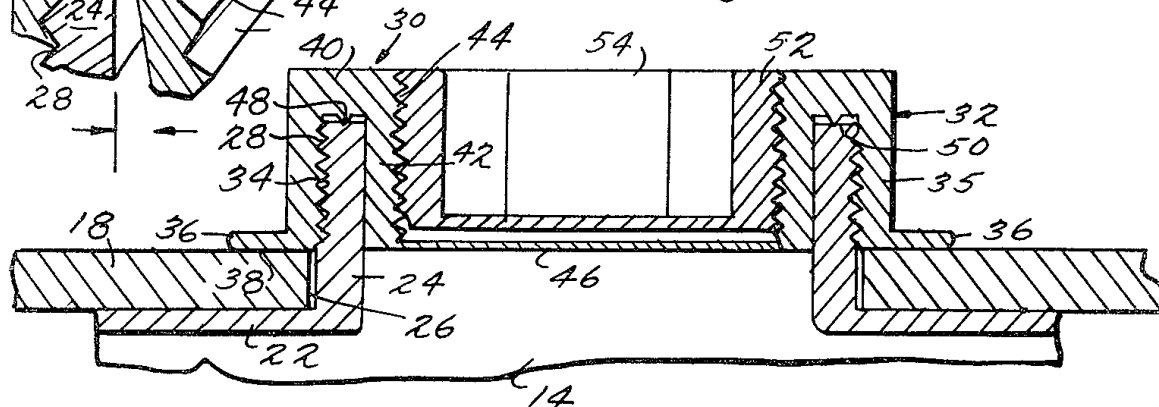
Family 69/100 - FAMPAT - ©Questel

Title

(US3167210)

Device for securing the filler neck of a container liner to the container

Images

Fig. 1.*Fig. 2.**Fig. 4.**Fig. 3.*

INVENTOR.

WILLIAM M. CARNEY, JR

BY

Bushman, Dierks & Bushman
 ATTORNEYS

Publication numbers with kind code & date

US3167210

A 1965-01-26 US3167210



Inventors

CARNEY JR WILLIAM M

Latest standardized assignees - inventors removed

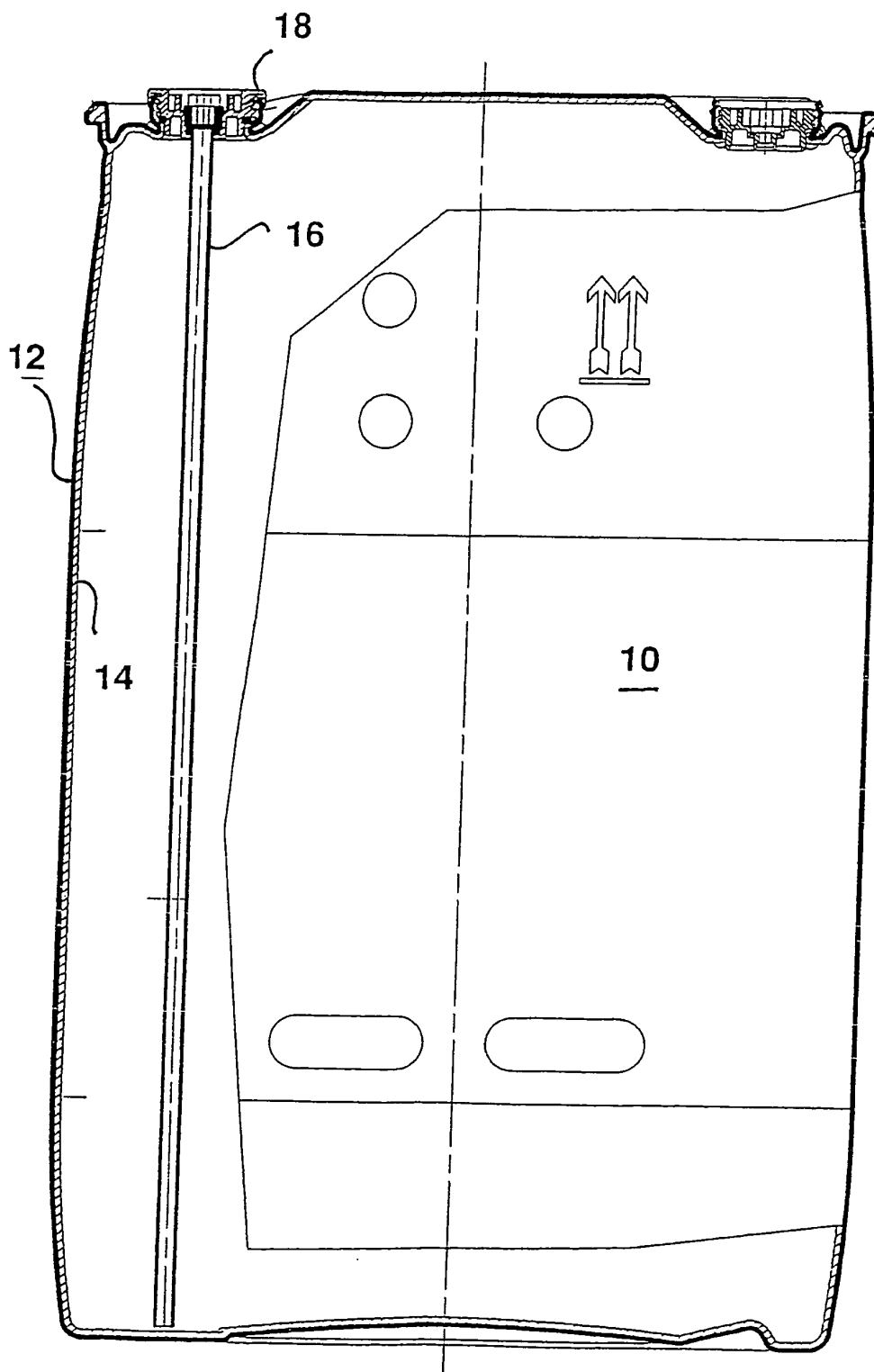
GREIG BROS COOPERAGE

Family 70/100 - FAMPAT - ©Questel

Title

(EP1497188)

Plastic container

Images**Publication numbers with kind code & date**

BR0309065	B1	2014-03-04	BR200309065
BRPI0309065	A2	2013-12-17	BR200309065
CA2477800	C	2011-04-19	CA2477800



IN245987	B	2011-02-11	IN-245987				
JP4567438	B2	2010-08-13	JP4567438				
KR100944510	B1	2010-03-03	KR100944510				
AU2003236836	B2	2009-01-22	AU2003236836				
IL163754	B	2008-07-08	IL-163754				
CN100361875	C	2008-01-16	CN100361875C				
IN2380/CHENP/2004	A	2007-09-21	IN2004CN02380				
US7042695	B2	2006-05-09	US7042695				
DE50301272	D1	2006-02-09	DE50301272				
DK1497188	T3	2006-01-30	DK1497188T				
IL163754	A	2005-12-18	IL-163754				
AT305414	T	2005-10-15	ATE305414				
EP1497188	B1	2005-09-28	EP1497188				
ZA200406872	B	2005-09-28	ZA200406872				
JP2005528293	A	2005-09-22	JP2005528293				
CN1649772	A	2005-08-03	CN1649772				
US20050082076	A1	2005-04-21	US20050082076				
DE10392033	D2	2005-04-14	DE10392033				
MXPA04010319	A	2005-03-07	MX2004PA010319				
BR0309065	A	2005-02-01	BR200309065				
BRPI0309065	A1	2005-02-01	BRPI0309065				
EP1497188	A2	2005-01-19	EP1497188				
KR20040099466	A	2004-11-26	KR20040099466				
WO03/093116	A3	2004-03-18	WO200393116				
AU2003236836	A1	2003-11-17	AU2003236836				
CA2477800	A1	2003-11-13	CA2477800				
WO03/093116	A2	2003-11-13	WO200393116				

Abstract

(EP1497188)

The invention relates to a multi-layer plastic container (10) for the storage and transport of materials in particular with an explosion risk, comprising at least two layers of plastic, whereby the inner layer (14) is not electrically conducting and the outer layer (12) is electrically conducting. According to the invention, an electrostatic charging of the plastic container or/and the inner filled material with a risk of explosion may be avoided, whereby a permanent electrical connection between the inner packed material and the base on which the plastic container (10) is mounted is provided which guarantees a secure discharge of electrostatic charging of the container body or the packed material to the base.

Inventors

PRZYTULLA DIETMAR

VAN DEN BOOGERD ERNEST

DIRVEN ALAIN YVES MARIE

Latest standardized assignees - inventors removed

MAUSER WERKE

Family 71/100 - FAMPAT - ©Questel

Title

(EP1535858)

Pallet like support for transport and storage containers for liquids

Images

US7107912	B2	2006-09-19	US7107912				
RU2004134643	A	2006-05-10	RU2004134643				
IN1262/CHE/2004	A	2006-02-24	IN2004CH01262				
AR047256	A1	2006-01-11	AR--47256				
MXPA04011724	A	2005-10-26	MX2004PA011724				
DE10355421	A1	2005-08-04	DE10355421				
BRPI0405289	A	2005-07-19	BR200405289				
ZA200409372	B	2005-07-13	ZA200409372				
AU2004233500	A1	2005-06-16	AU2004233500				
JP2005154016	A	2005-06-16	JP2005154016				
US20050115473	A1	2005-06-02	US20050115473				
CN1621316	A	2005-06-01	CN1621316				
EP1535858	A1	2005-06-01	EP1535858				
NO20045085	L	2005-05-30	NO20045085				
BRPI0405289	A1	2005-01-11	BR200405289				

Abstract

(EP1535858)

Pallet-like underframe for storing and transporting of liquid containers has anti-slip support elements on underside of bottom of underframe and in contact with gripping arms of transporting means during transporting of container

The pallet-like underframe for the storing and transporting of liquid containers has anti-slip support elements (39) fitted on the underside (32) of the bottom (13) of the underframe (12), by which the bottom of the underframe during the transporting of a container lies upon the gripping arms of a transporting means. The manufacturing material of the support elements of the underframe's bottom and the manufacturing material of the gripping arms are matched to one another to achieve the largest possible friction coefficients.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

Family 72/100 - FAMPAT - ©Questel

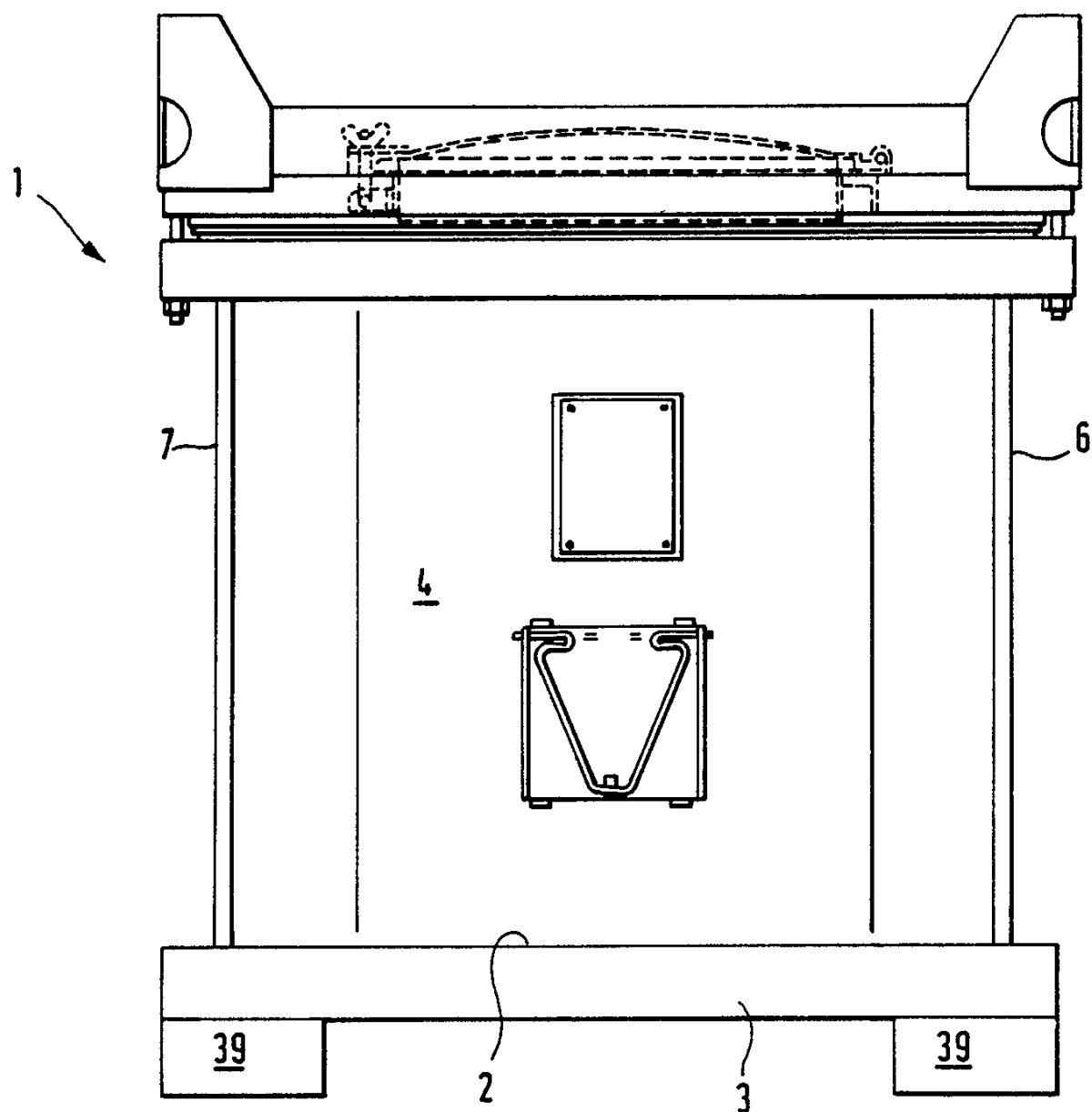
Title

(EP-243760)

Stackable parallelepipedic container

Images

FIG.1



Publication numbers with kind code & date

GR3000625	T3	1991-09-27	GR3000625
ES2016299	B3	1990-11-01	ES2016299
DE3763525	D1	1990-08-09	DE3763525
AT54279	T	1990-07-15	ATE054279
EP0243760	B1	1990-07-04	EP-243760
US4917246	A	1990-04-17	US4917246
EP0243760	A3	1988-10-05	EP-243760
DE3614767	A1	1987-11-05	DE3614767
EP0243760	A2	1987-11-04	EP-243760



Abstract

(EP0243760)

1. Stackable parallelepipedic container (1) having a box-shaped container edge profile (8) which surrounds the upper

region of the side walls (4, 5, 6, 7) and the upper side of which forms a support for the container lid, the central region of the container lid (13) being provided with an opening which is closed by a further lid (43), characterized in that the container lid (13) comprises a folding blank having lug-like prolongations (22) which are extended beyond the lateral edges (21) of the lid and are bent at right angles around the lateral edges (21) of the lid, in that profiled sheets (26) forming a circumferential hollow edge profile (40) of the lid are welded to the prolongations (22) and in that the edge profile (40) of the lid is supported on the upper side of the edge profile (8) of the container via a circumferential ring gasket (12) and both edge profiles (8, 40) are provided with aligned bores through which are passed clamping bolts clamping the two edge profiles (8, 40) to one another.

Inventors

EDELHOFF, GUSTAV-DIETER

Latest standardized assignees - inventors removed

EDELHOFF M S T S

Family 73/100 - FAMPAT - ©Questel

Title

(EP1387799)

Device for transporting and/or storing powder or liquid products

Images

Publication numbers with kind code & date

AT556955	T	2012-05-15	ATE556955				
EP1387799	B1	2012-05-09	EP1387799				
US7575118	B2	2009-08-18	US7575118				
US20040195129	A1	2004-10-07	US20040195129				
EP1387799	A1	2004-02-11	EP1387799				
WO02/092460	A1	2002-11-21	WO200292460				
DE20107962	U1	2002-06-20	DE20107962				

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

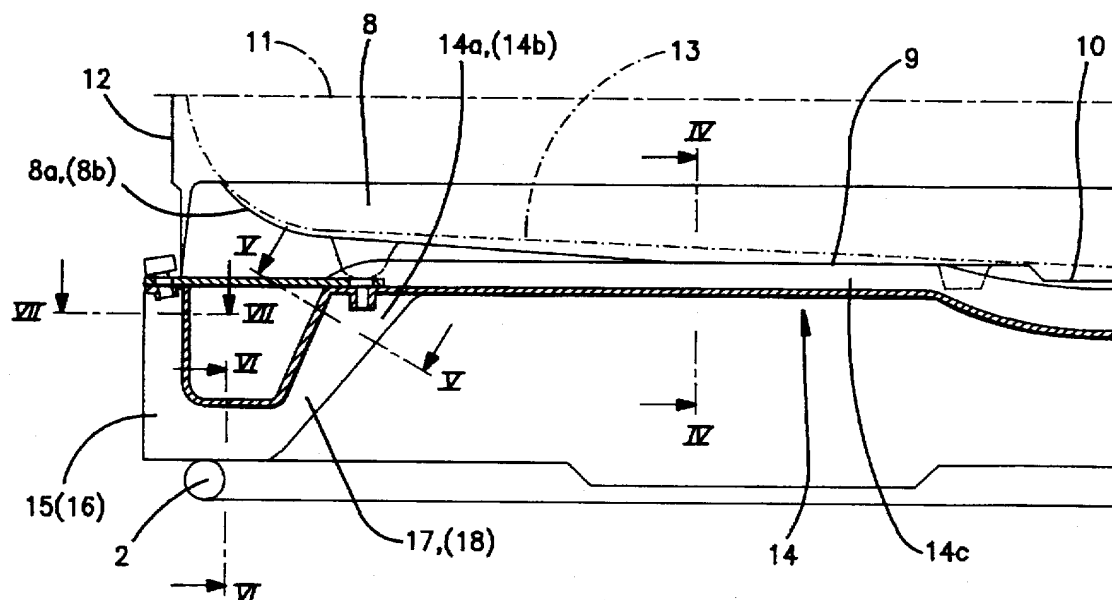
Family 74/100 - FAMPAT - ©Questel

Title

(EP-673846)

Pallet

Images



Publication numbers with kind code & date

DK0673846	T3	1999-03-22	DK-673846T
ES2116637	T3	1998-07-16	ES2116637
DE59502377	D1	1998-07-09	DE59502377
AT166845	T	1998-06-15	ATE166845
EP0673846	B1	1998-06-03	EP-673846
US5673630	A	1997-10-07	US5673630
EP0673846	A1	1995-09-27	EP-673846
CA2145052	A1	1995-09-22	CA2145052
DE9404764	U1	1994-05-19	DE9404764



Abstract

(EP0673846)

The two middle feet are moulded in one piece with the two ends (14a,b) of the bridge-type reinforcement plate (14). That part (14c) of the reinforcement plate beneath the metal floor trough (8) leads via outward slanting arms (17,18) into the feet. The reinforcement plate is press-drawn and forms a profiled part with the middle feet.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

SCHUTZ WERKE

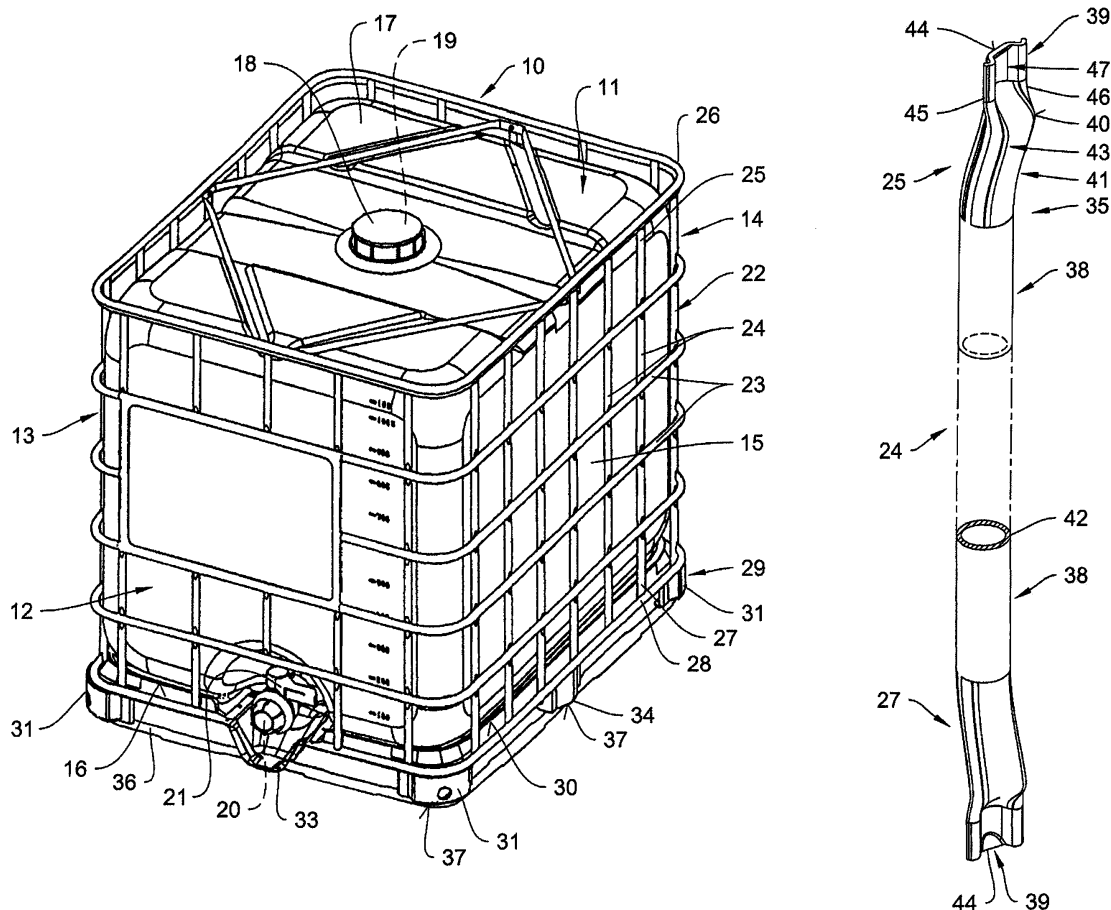
Family 75/100 - FAMPAT - ©Questel

Title

(EP2604545)

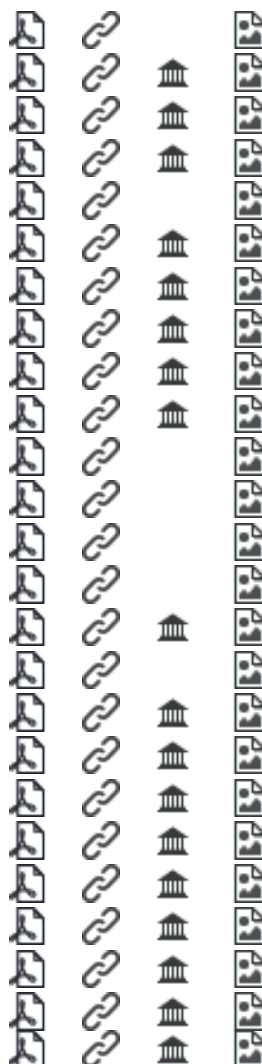
Transport and storage container for fluids

Images



Publication numbers with kind code & date

MY166296	A	2018-06-25	MY-166296
DE102011087927	B4	2018-06-21	DE102011087927
CN103144830	B	2016-10-05	CN103144830B
BR102012031286	A2	2016-09-13	BR102012031286
ZA201208918	B	2016-01-27	ZA201208918
KR101562616	B1	2015-10-30	KR101562616
CA2797314	C	2015-07-21	CA2797314
JP5764112	B2	2015-06-19	JP5764112
US9004310	B2	2015-04-14	US9004310
AU2012254870	B2	2015-02-12	AU2012254870
RU2525799	C2	2014-08-20	RU2525799
AR089116	A1	2014-07-30	AR--89116
CO6970117	A1	2014-06-13	CO6970117A1
RU2012151432	A	2014-06-10	RU2012151432
IN3311/MUM/2012	A	2014-05-23	IN2012MU03311
MX2012014159	A	2013-10-14	MX2012014159
AU2012254870	A1	2013-06-27	AU2012254870
EP2604545	A1	2013-06-19	EP2604545
JP2013119435	A	2013-06-17	JP2013119435
KR20130064015	A	2013-06-17	KR20130064015
DE102011087927	A1	2013-06-13	DE102011087927
US20130146607	A1	2013-06-13	US20130146607
CN103144830	A	2013-06-12	CN103144830
CA2797314	A1	2013-06-07	CA2797314



[BR102012031286](#)

A1 2013-02-26 BR102012031286

Abstract

(EP2604545)

The container has a plastic inner container part including side walls (12-15), lower wall (16) and an upper wall (17) supported by a base frame (29). A closable filler neck is formed on the upper wall, and a draining neck (20) with a tapping armature (21) is formed on a lower section of one of the side walls. A cage mantle (22) with metal horizontal bars and metal vertical bars receives the inner container part. Upper ends of vertical bars include a convex cross-section outline in transition of a connection section to a bent section on an inner side facing the inner container part.

Inventors

SCHÜTZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

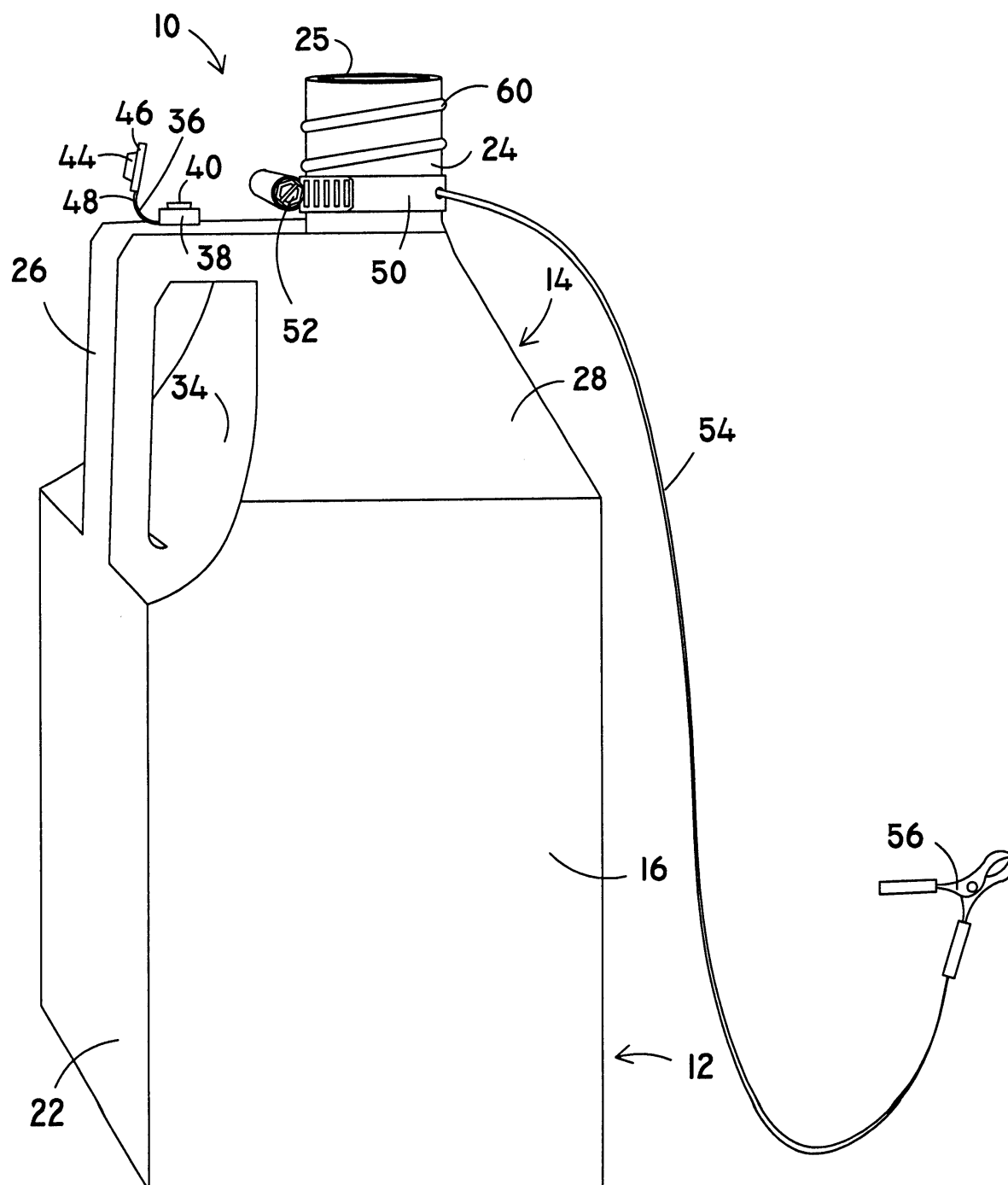
Family 76/100 - FAMPAT - ©Questel

Title

(US6283320)

Conductive plastic container for volatile liquids

Images



Publication numbers with kind code & date

US6283320

B1 2001-09-04 US6283320



Abstract

(US6283320)

A container for volatile liquids, such as a gasoline, is made of a conductive plastic material. An electrical connection is made to the container, such as by using a metal hose clamp around the neck of the container (or a threaded stud which is molded into the container), so that a conductive cable can be electrically attached to the container. At the distal end of the conductive cable a spring loaded electric clip is attached, whereby the electric clip can be connected to a conductive portion on the equipment which is to be fueled. By using the present invention, the benefits of a plastic fuel container, including arbitrary shape, absence of denting or corrosion, light weight, and inclusion of a molded handle, can all be derived without the detrimental effect of build-up of static charge which can lead to an explosion if a spark ignites volatile fuel-air vapors.

Inventors

PATCH ROGER

Latest standardized assignees - inventors removed

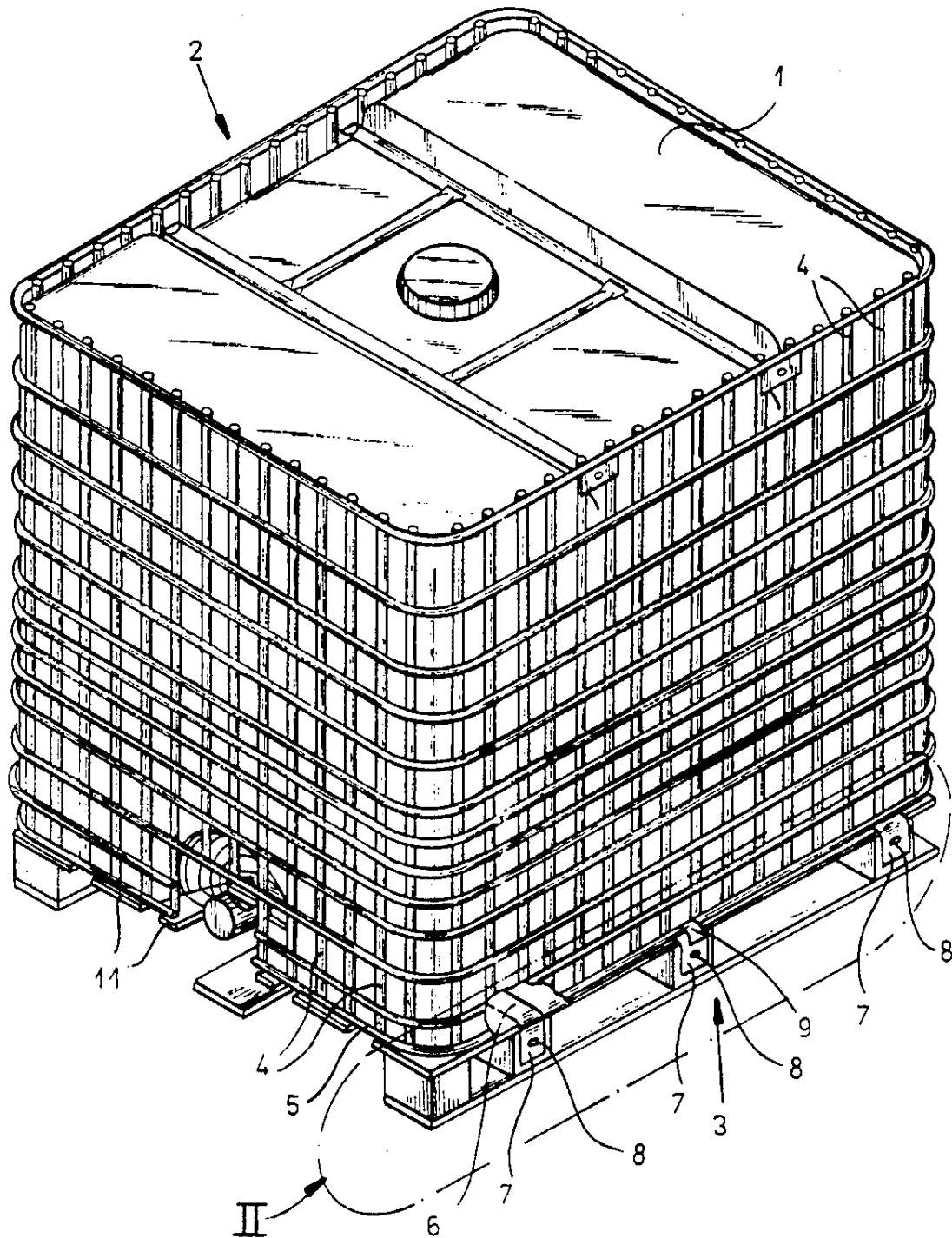
HOPKINS MANUFACTURING

Family 77/100 - FAMPAT - ©Questel

Title

(EP-438718)

Transport and/or storage container with an inner container and an outer container.

Images**Publication numbers with kind code & date**

ES2046659	T3	1994-02-01	ES2046659
DE59003795	D1	1994-01-20	DE59003795
EP0438718	B1	1993-12-08	EP-438718
DE4001124	C2	1991-10-31	DE4001124



US5058747	A	1991-10-22	US5058747
EP0438718	A1	1991-07-31	EP-438718
CA2034247	A1	1991-07-18	CA2034247
DE4001124	A1	1991-07-18	DE4001124
DE9000453	U1	1990-03-22	DE9000453

**Abstract**

(EP0438718)

A transport and storage container for flowable materials has an annular and erect outer wall in the form of a gridwork of bars having a lower edge and provided at the edge with an annular stiffening bar and a pallet-like floor downwardly closing the wall, forming therewith an outer vessel, and provided with a plurality of wooden foot beams each having a ground-engaging lower surface, an upper surface, and a pair of ends. Respective steel plates on the upper surfaces of the foot beams each have bent-down ends overlying the respective beam ends. Fasteners such as screws or nails are engaged through the steel-plate ends into the respective beam ends. Integral connections are provided between each of the plates and the annular stiffening bar at the lower edge of the wall. An inner vessel composed of flexible plastic material is enclosed by the outer wall and supported on the floor.

(From US5058747 A)

Inventors

DECROIX CLAUDE

HAMM ANDRE

Latest standardized assignees - inventors removed

SOTRALENTZ

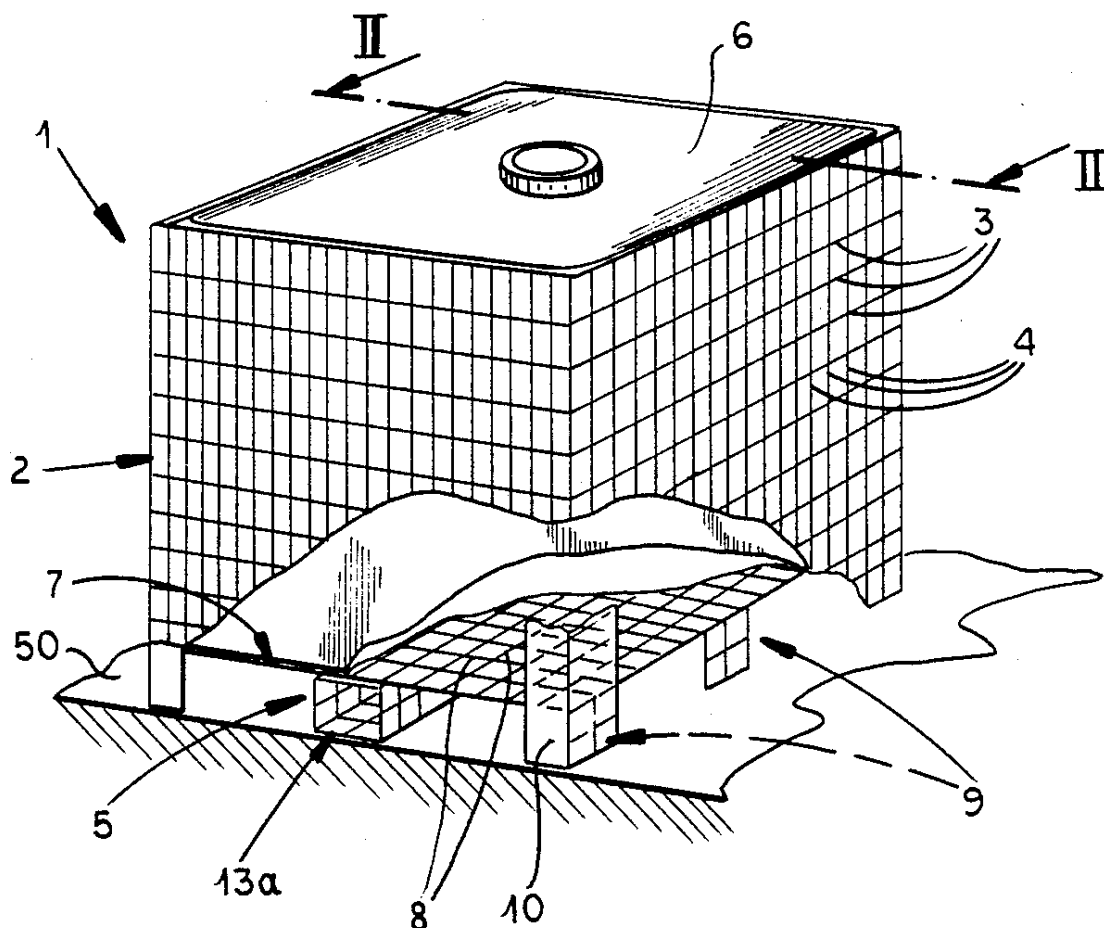
Family 78/100 - FAMPAT - ©Questel

Title

(EP-363668)

Transport and/or storing container for liquids or granular materials

Images



Publication numbers with kind code & date

MX171934	B	1993-11-24	MX-171934
GR3004800	T3	1993-04-28	GR3004800
ES2033502	T3	1993-03-16	ES2033502
DE58901596	D1	1992-07-09	DE58901596
AT76838	T	1992-06-15	ATE076838
EP0363668	B1	1992-06-03	EP-363668
DE3834280	C2	1990-10-31	DE3834280
US4966293	A	1990-10-30	US4966293
EP0363668	A1	1990-04-18	EP-363668
DE3834280	A1	1990-04-12	DE3834280
CA2000284	A1	1990-04-08	CA2000284



Abstract

(EP0363668)

A transport and storage container for flowable materials has an outer enclosure formed with a gridwork of vertical and horizontal bars which surround a plastic inner vessel. A pallet is formed by a similar gridwork and the supporting feet are at least in part formed by downwardly bent portions of the grid bars of the bent pallet which are connected to extensions of the vertical bars of the outer enclosure, e.g. by welding. The supporting foot may be bent from these portions or may be constituted by an angle member welded thereto and a reinforcing plate or sheet can be welded to the downwardly bent portions for greater stability.

(From US4966293 A)

Inventors

PFEIFFER, PIERRE

SIGWALT, PAUL

CHEVAL, BENOIT

Latest standardized assignees - inventors removed

SOTRALENTZ

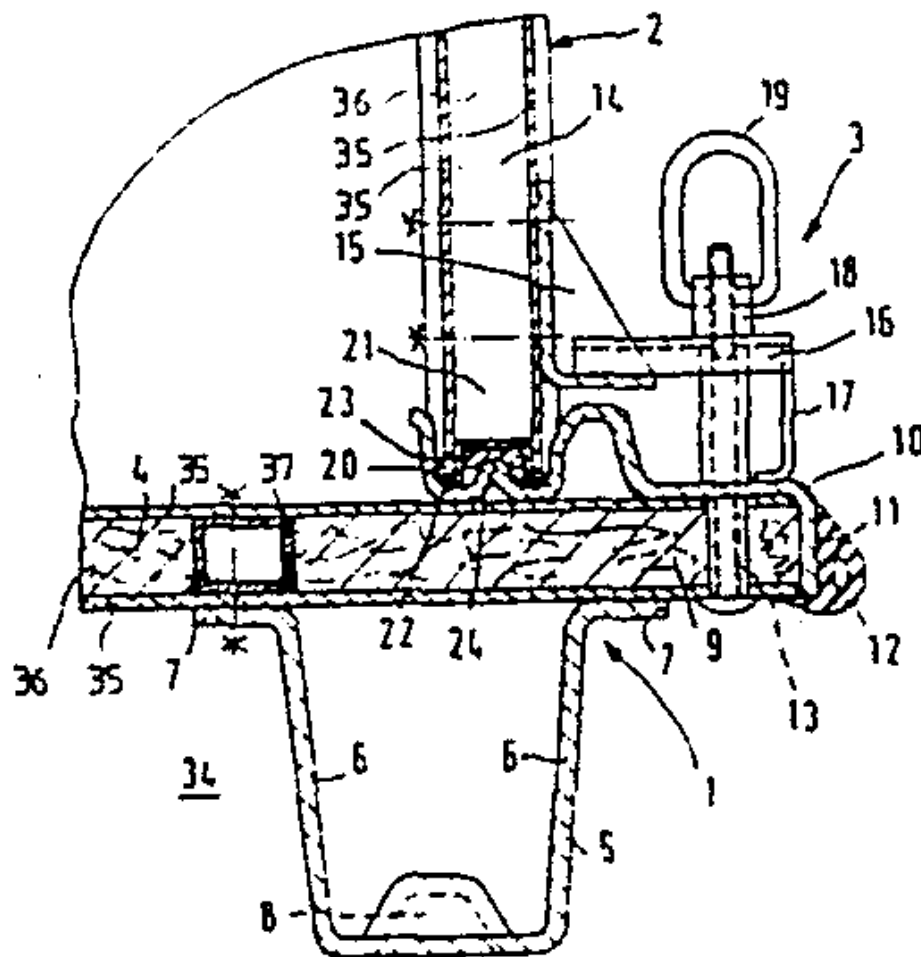
Family 79/100 - FAMPAT - ©Questel

Title

(FR2613334)

Container for heavy loads

Images



Publication numbers with kind code & date

DE8718111	U1	1994-08-11	DE8718111
FR2613334	B1	1992-01-03	FR2613334
GB2203410	B	1991-07-03	GB2203410
CH675111	A5	1990-08-31	CH-675111
IT1220429	B	1990-06-15	IT1220429
DE3710856	A1	1988-10-20	DE3710856
GB2203410	A	1988-10-19	GB2203410
FR2613334	A1	1988-10-07	FR2613334
GB8807777	D0	1988-05-05	GB8807777
IT8804821	D0	1988-03-30	IT8804821



Abstract

(FR2613334)

A container has a load-carrying bottom portion (1) and a cover portion (2) which covers over the load and whose peripheral edge (21) can be clamped to the bottom portion (1) by clamping means (3). The bottom portion (1) is in the form of a pallet-like flat plate (4) having runners (5) defining opening means (34) for a fork lift truck and depressions (8) and projections (33) are provided to facilitate stacking. <IMAGE>

(From DE3710856 A1)

Inventors

MAIBACH GERD D

Latest standardized assignees - inventors removed

MAIBACH GERD

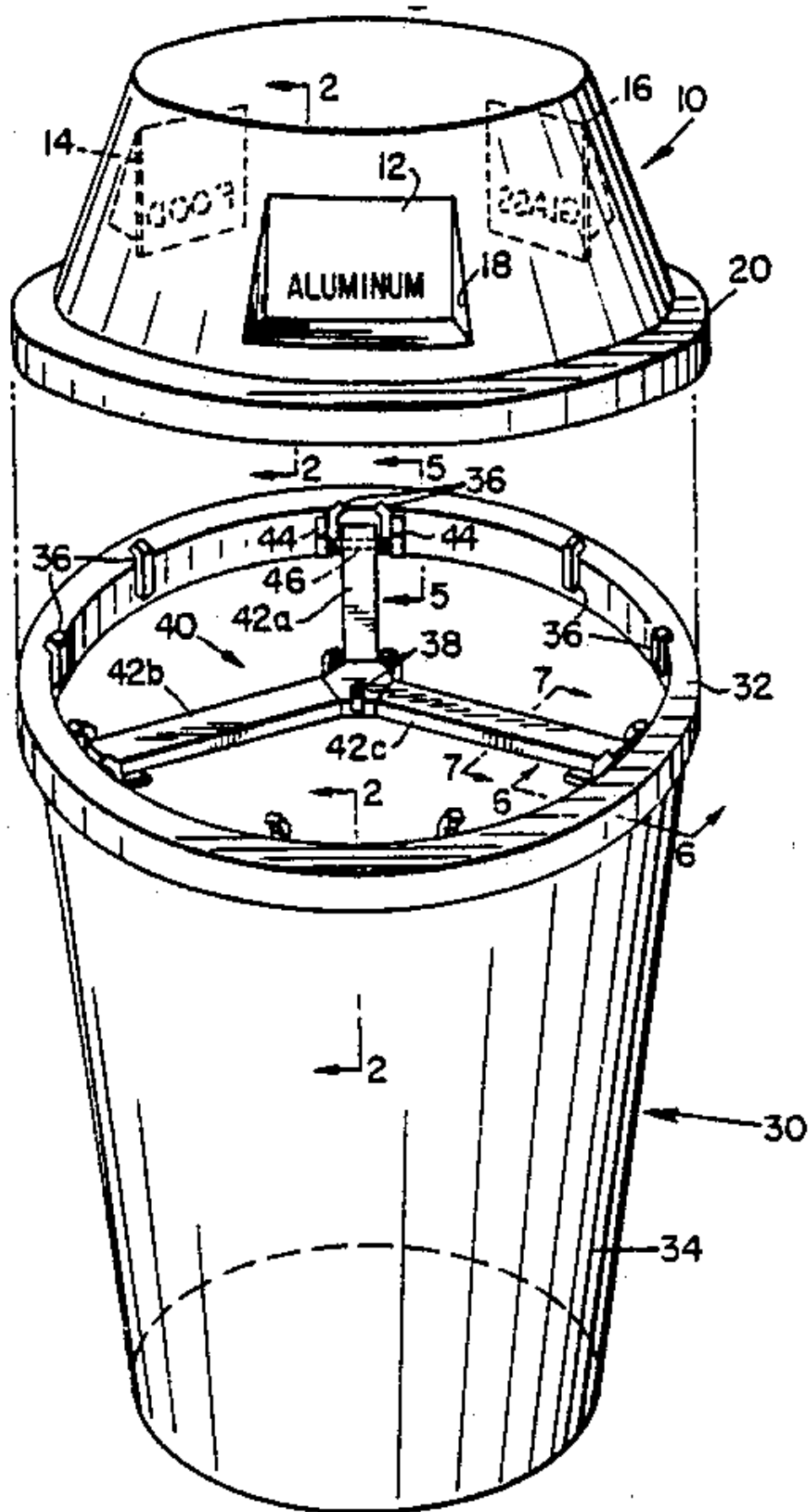
Family 80/100 - FAMPAT - ©Questel

Title

(US4905853)

Compartmented receptacle

Images



Publication numbers with kind code & date

US5160062	A	1992-11-03	US5160062
US5085342	A	1992-02-04	US5085342



CA2008793	A1	1990-08-06	CA2008793
US4905853	A	1990-03-06	US4905853

**Abstract**

(US4905853)

A trash can has a rim at its upper end. A divider, made up of a plurality of arms, cooperates with the rim to form a plurality of open spaces at the top of the can. The arms of the divider are supported by sockets mounted on the rim. Plastic trash bags hang below the open spaces. The bags are supported by projections or hooks on the divider and on the rim of the can. A cover or lid for the trash can has a generally vertical sidewall having a door above each trash bag.

Inventors

STRAWDER GLENN G

Family 81/100 - FAMPAT - ©Questel

Title

(DE8017829)

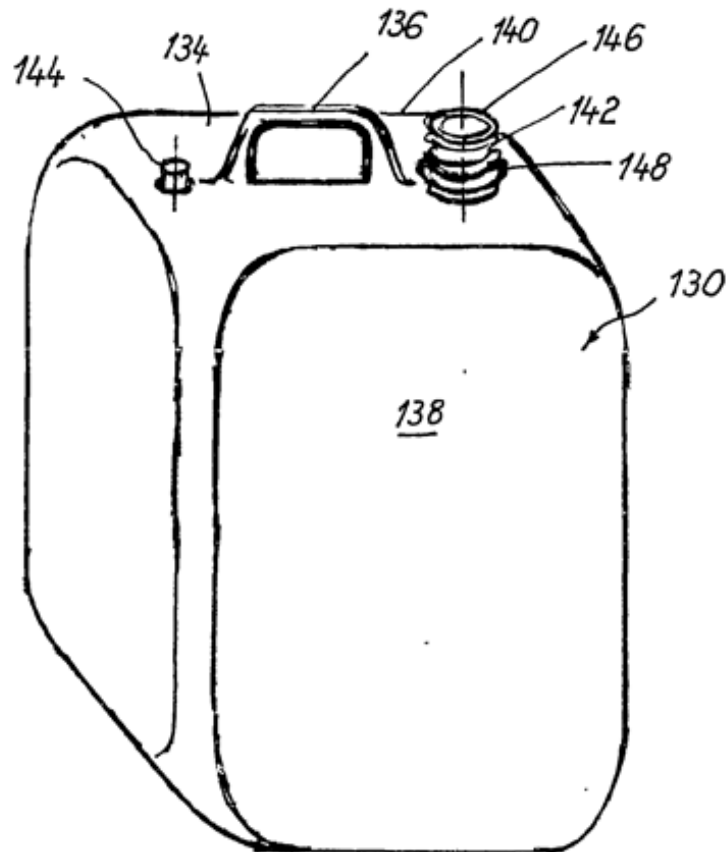
Container for transporting hazardous liquids

Images

Dr.-Ing. Walter Frohn-Betriebe

02.07.80

2/29

Fig. 1**Publication numbers with kind code & date**[DE8017829](#)

U1 1980-11-13 DE8017829

**Latest standardized assignees - inventors removed**

FROHN WALTER

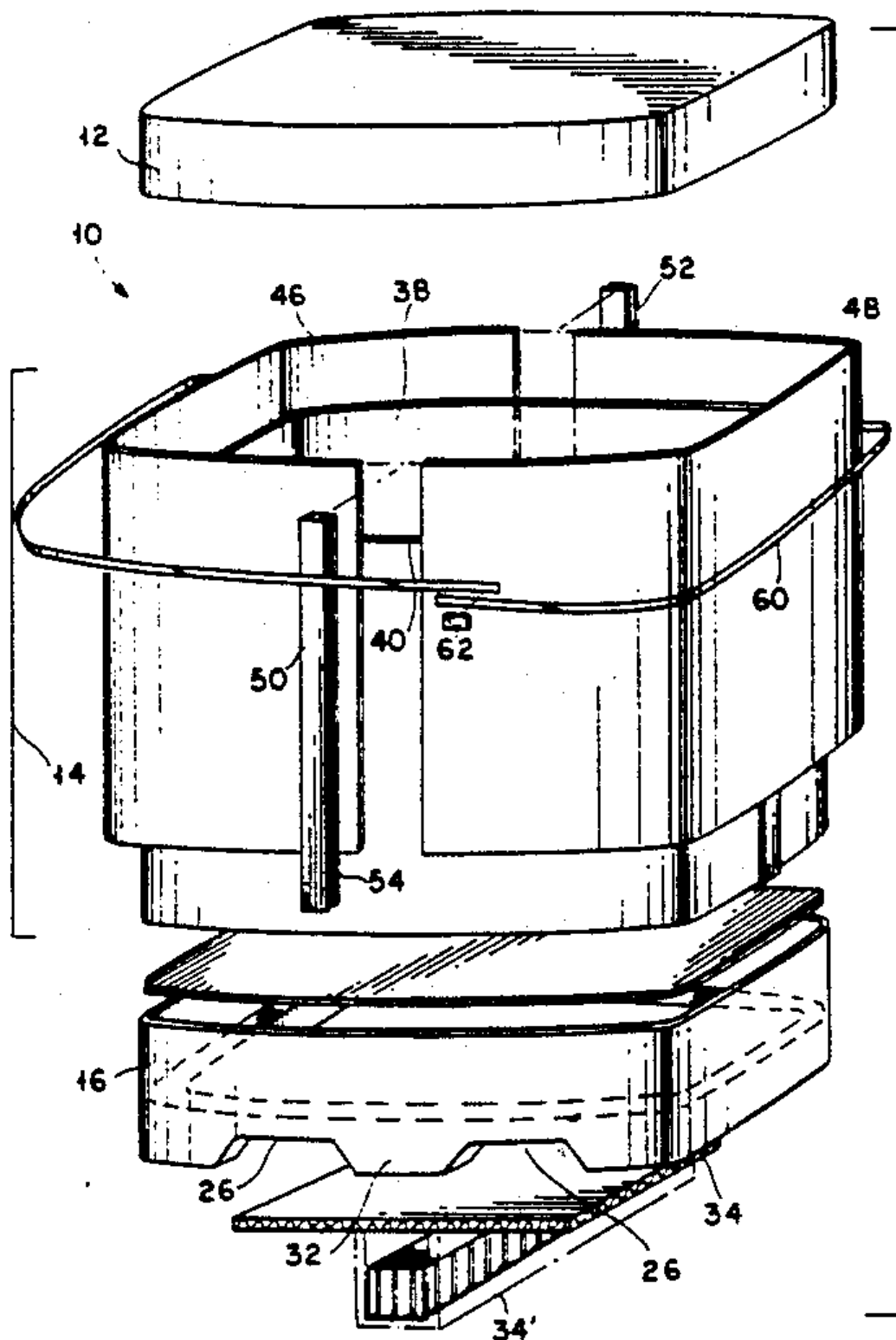
Family 82/100 - FAMPAT - ©Questel

Title

(US5244108)

Collapsible bulk container and method of making the same

Images



Publication numbers with kind code & date

CA2062355	C	1996-04-02	CA2062355
US5244108	A	1993-09-14	US5244108
CA2062355	A1	1992-09-07	CA2062355



Abstract

(US5244108)

A collapsible, fiber, bulk container which is made-up of a plurality of sidewalls joined by connectors to form a tubular body. The body is closed off by top and bottom members telescopically engaging said body. The bottom may be reinforced by a

strut member to insure that the bottom does not warp and collapse. A reinforcing strap is also secured around the body.

Inventors

HALE JAMES A

Latest standardized assignees - inventors removed

GREIF INDUSTRIAL PACKAGING & SERVICES

GRIEF BROS

GREIF SERVICES A DELAWARE LIABILITY

GREIF

GREIF INDUSTRIAL PACKAGING & SERVICES A DELAWARE LIABILITY

AMERICAN FLANGE & MANUFACTURING

GREIF PAPER PACKAGING & SERVICES A DELAWARE LIABILITY

GREIF PACKAGING

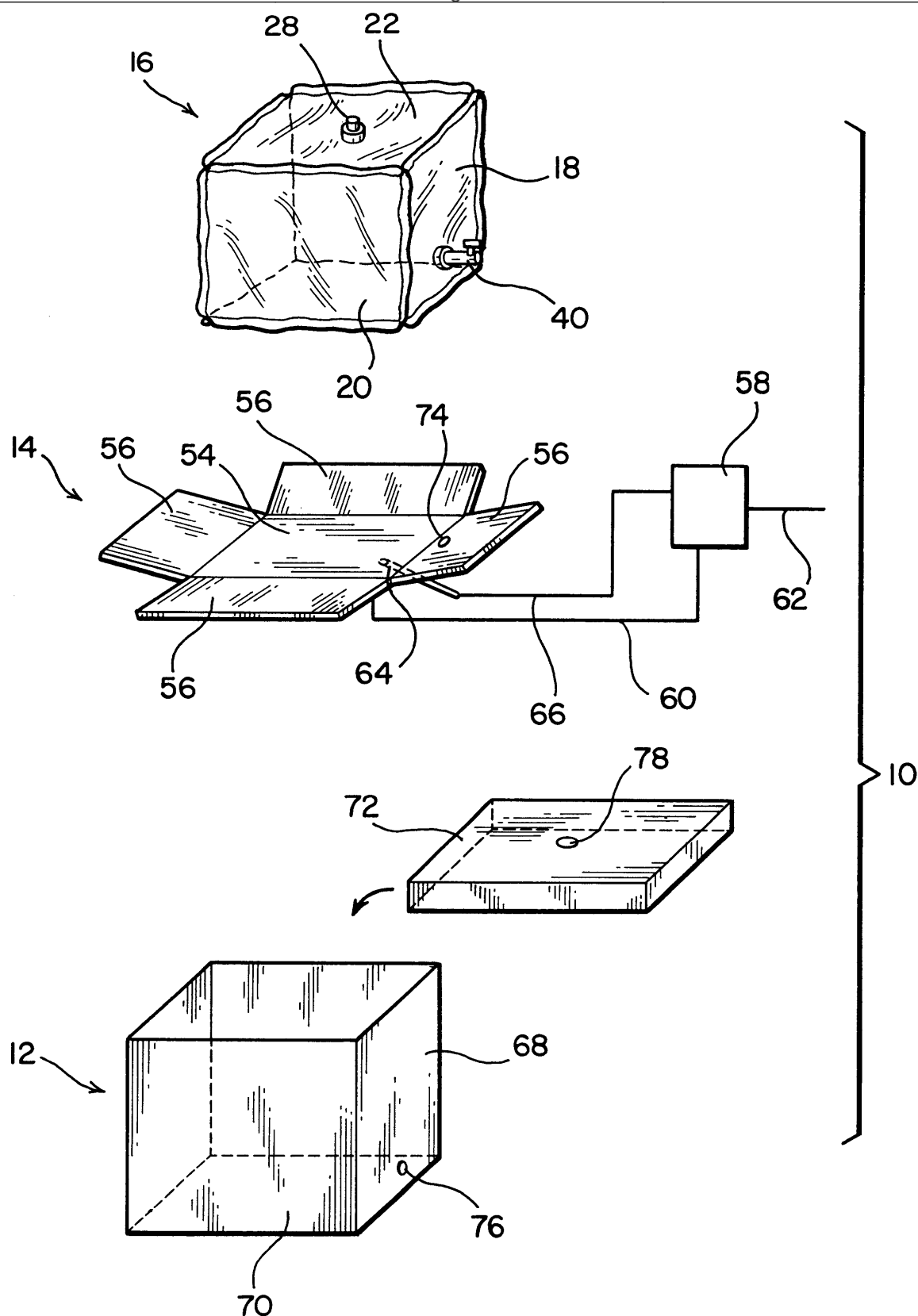
Family 83/100 - FAMPAT - ©Questel

Title

(US6294761)

Heat-resisting package for hot-melt adhesive

Images



Publication numbers with kind code & date

[US6294761](#)

B1 2001-09-25 US6294761



Abstract

(US6294761)

A method for heat-sealing a sheet of heat-resisting polymer to a heat-resisting polymeric fitment, which enables the fabrication of a containment and delivery system for a bulk quantity of meltable adhesive, wherein a rigid container is lined by a heat-resisting flexible envelope, with a heater interposed between them. Ports are sealed to the envelope to permit the filling and draining of molten adhesive.

Inventors

DIEDERICH RAYMOND DAVID

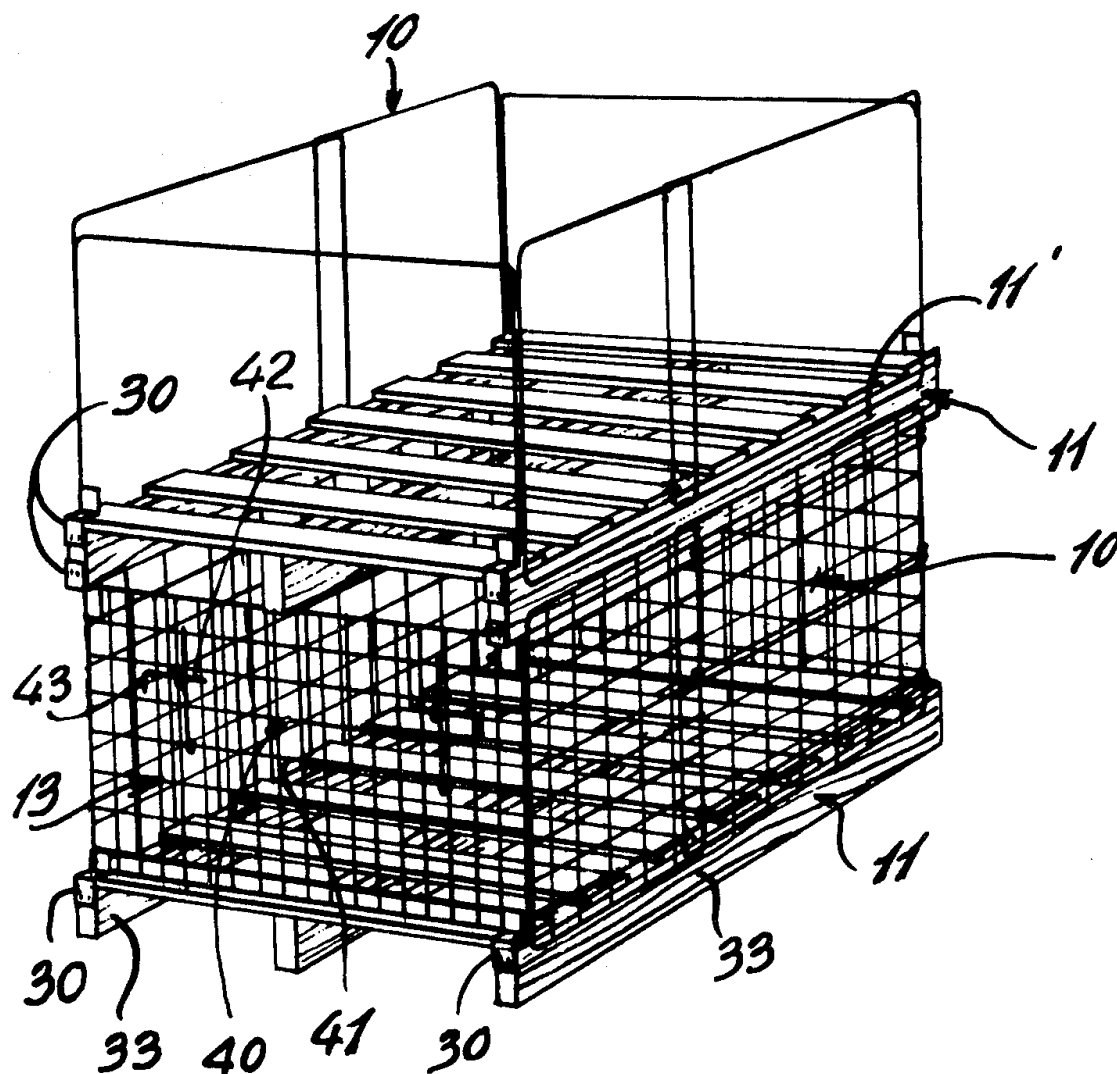
LITTMAN WALTER E

Family 84/100 - FAMPAT - ©Questel

Title

(US4090633)

Collapsible pallet container

Images**Publication numbers with kind code & date**[US4090633](#)

A 1978-05-23 US4090633

**Abstract**

(US4090633)

A collapsible container side wall for use with a material support pallet. The container side wall has a front panel, a rear panel and two side panels, the latter panels being interconnected between opposed end edges of the front and rear panels by a respective hinge connection. Each of the side panels has two panel sections interconnected to each other by a transverse hinge located intermediate the front and rear panels and extending parallel to the hinge connections at the end edges of the front and rear panels. The transverse hinge of one of the two side panels is offset laterally from the transverse hinge of the other side panel whereby the panel sections can fold inwardly with one side panel on top of the other between the front and rear panels with these latter panels collapsing towards each other. Retention means is provided in the lower edge of the container side wall to prevent lateral displacement of the container side wall when positioned about a peripheral area of the pallet.

Inventors

TRUBIANO ANTOINE

Latest standardized assignees - inventors removed

CARI ALL

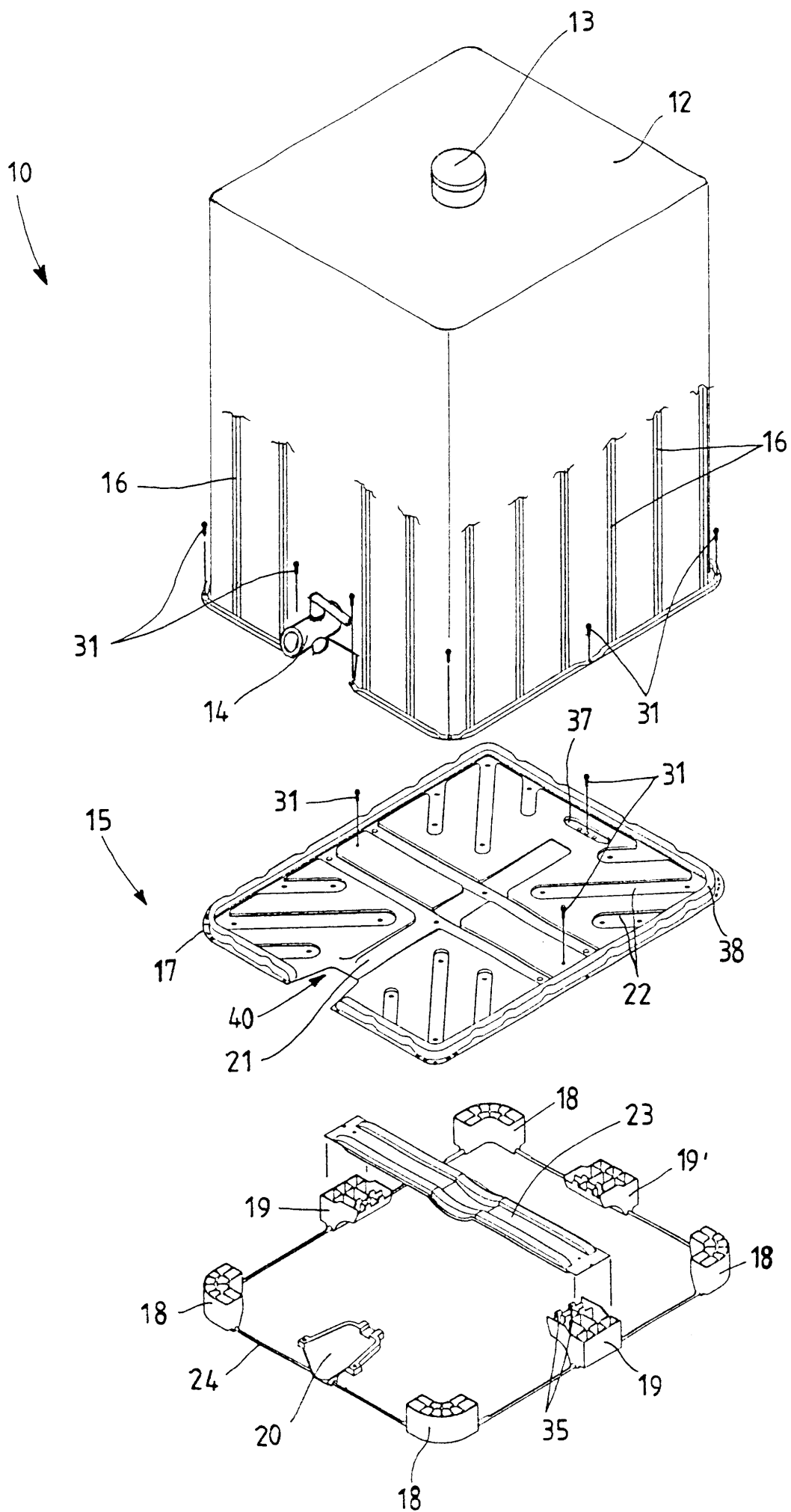
Family 85/100 - FAMPAT - ©Questel

Title

(EP1232961)

Pallet container for liquids

Images



Publication numbers with kind code & date

BRPI0200484	A2	2011-06-21	BR200200484				
DE60200454	T2	2005-05-25	DE60200454				
ES2220871	T3	2004-12-16	ES2220871				
PT1232961	E	2004-09-30	PT1232961				
TR200401927	T4	2004-09-21	TR200401927				
DK1232961	T3	2004-09-20	DK1232961T				
DE60200454	D1	2004-06-17	DE60200454				
AT266584	T	2004-05-15	ATE266584				
EP1232961	B1	2004-05-12	EP1232961				
US6719164	B2	2004-04-13	US6719164				
BR0200484	A	2002-10-08	BR200200484				
US20020112979	A1	2002-08-22	US20020112979				
EP1232961	A1	2002-08-21	EP1232961				
ITMI20010343	A1	2002-08-20	IT2001MI0343				
BRPI0200484	A1	2002-04-09	BR200200484				

Abstract

(EP1232961)

A pallet container for liquids (10) comprises an inner plastic container (12), equipped with a filler (13) and a drain tap (14), both with a hermetic seal, protected by metal plating (16) and resting on a pallet (15), suitable to be moved with lifting means, and composed of a stamped metal plate tray (17), provided with stiffening grooves (22) and bearing elements, corner feet (18), central spacers (19, 19') and a drainer (20), made of plastic, and equipped with complementary engaging elements, for connection with a base ring (24) and with the tray (17).

Inventors

MASCHIO PIETRO

Latest standardized assignees - inventors removed

SISTEMA

MAUSER HOLDING ITALY

MAUSER ITALIA

GRUPPO MASCHINO

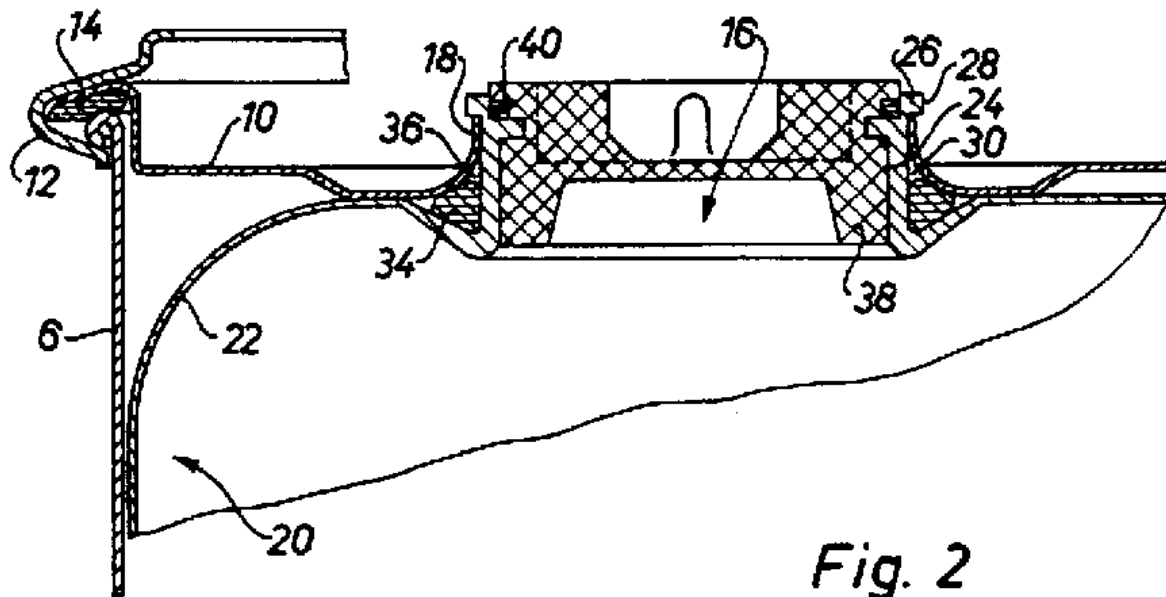
Family 86/100 - FAMPAT - ©Questel

Title

(DE4303851)

Barrel for transporting corrosive substances - has non-metal elastically deformable corrosion-resistant inner container detachably connected to rigid metal casing by tension ring connectors.

Images

**Fig. 2****Publication numbers with kind code & date**

CH685116	A5	1995-03-31	CH-685116
DE4303851	A1	1993-10-28	DE4303851

**Abstract**

(DE4303851)

The tension ring (12) has a frusto-conical surface resting on the edge of the lid (10) and a cylindrical or conical bent back flange surrounding the wall (6) of the barrel. The width of the radial dividing line can be enlarged circumferentially by operating the tension closure which in the closed state rests as a non-protruding part of the ring on the truncated cone of the surface. To dismantle the two parts of the barrel it is necessary to release the tension ring, remove the inner container and lid as one unit and separate the pipe (24) from the lid by operating the clamping jaws. USE/ADVANTAGE - Barrel for transporting corrosive substances in which metal and plastics parts can be separated for reuse and recycling without actually destroying any of the parts.

Inventors

FISCHER MARCO DIPL ING

Latest standardized assignees - inventors removed

MÜLLER VERPACKUNGEN

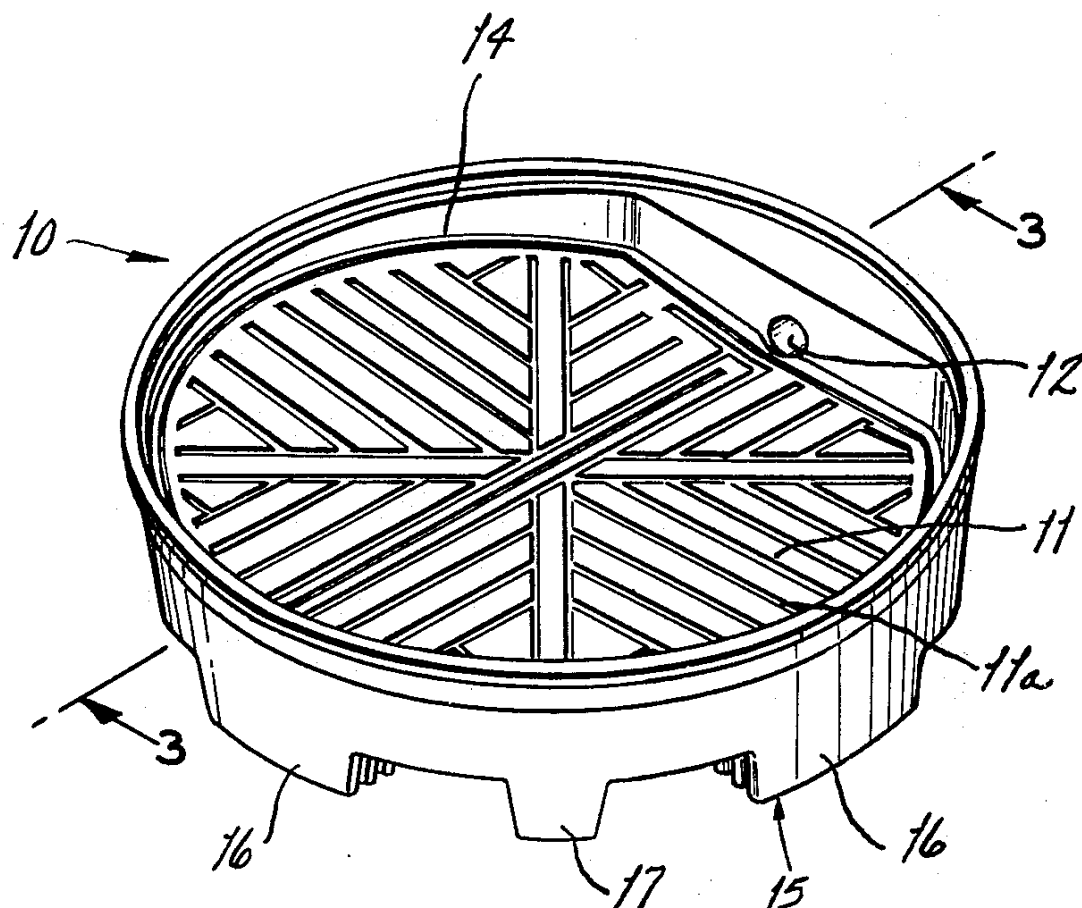
Family 87/100 - FAMPAT - ©Questel

Title

(US4007694)

Unitary plastic pallet for handling heavy powder loads

Images



Publication numbers with kind code & date

NL182068	C	1988-01-04	NL-182068
NL182068	B	1987-08-03	NL-182068
DE2506257	C2	1984-05-10	DE2506257
FR2261191	B1	1982-01-29	FR2261191
JP979797	C	1979-12-14	JP-979797
JPS5413059	B2	1979-05-28	JP79013059
IT1031771	B	1979-05-10	IT1031771
CA1026692	A	1978-02-21	CA1026692
GB1493082	A	1977-11-23	GB1493082
US4007694	A	1977-02-15	US4007694
BR7500911	A	1976-12-21	BR7500911
AU7820775	A	1976-08-19	AU7578207
FR2261191	A1	1975-09-12	FR2261191
JPS50117147	A	1975-09-12	JP50117147
DE2506257	A1	1975-08-21	DE2506257
NL7501686	A	1975-08-19	NL7501686
BE825531	A	1975-08-14	BE-825531
IL46639	A	1975-04-25	IL--46639



Abstract

(US4007694)

A lightweight, unitary plastic pallet adapted for handling heavy powder loads. The pallet has a substantially rigid lower deck, a flexible, reinforced and continuous upper deck adapted to deflect against the lower deck under load, and a plurality of integral legs permitting forklift transport of the pallet.

Inventors

FOWLER TIMOTHY J

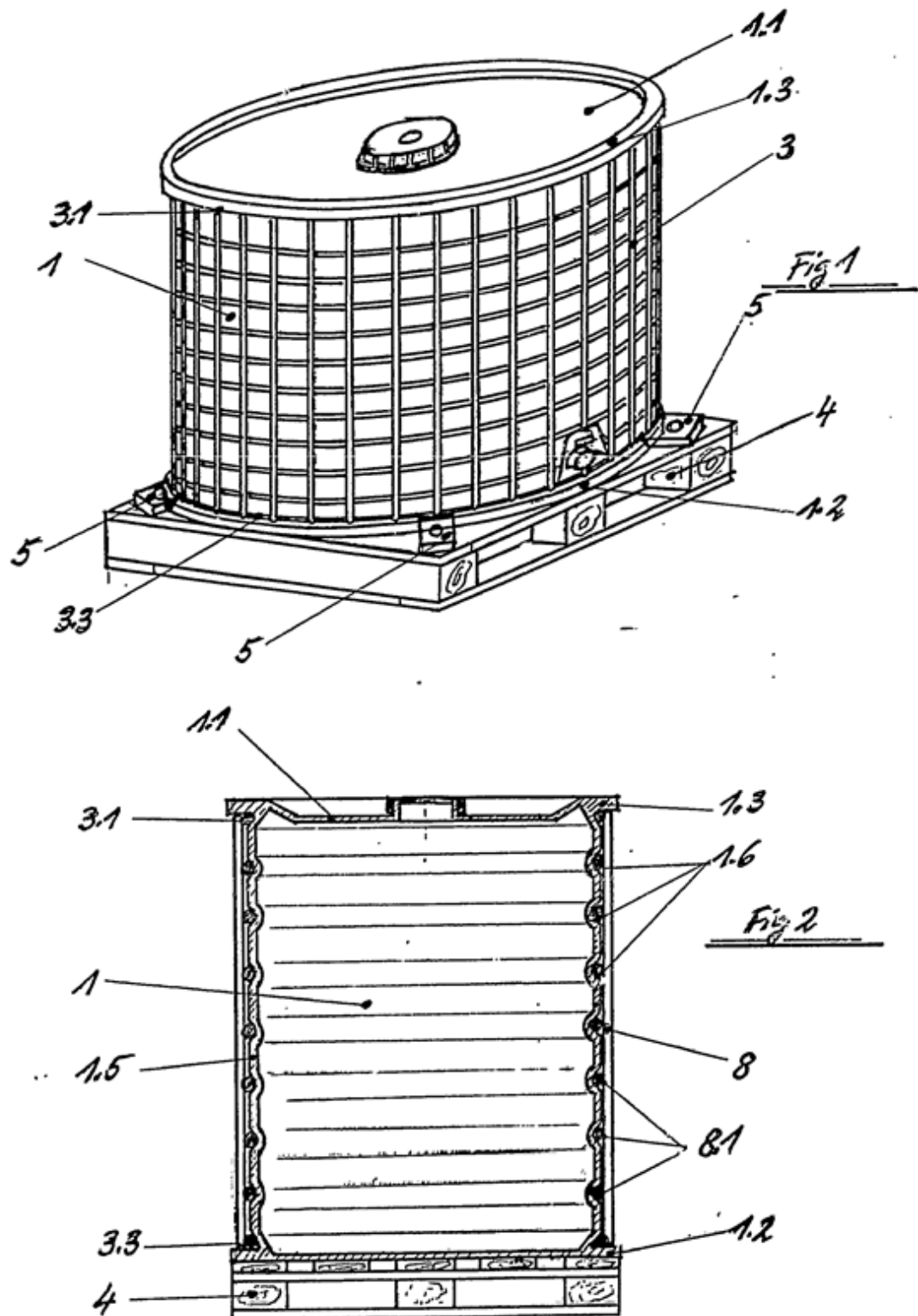
KANAN PAUL G

Latest standardized assignees - inventors removed

SEMI BULK SYSTEMS

Family 88/100 - FAMPAT - ©Questel

Images



[DE8627708](#)

U1 1986-12-11 DE8627708

Latest standardized assignees - inventors removed

RICHTER GUENTER 5230 ALTENKIRCHEN

Family 89/100 - FAMPAT - ©Questel

Title

(US3081911)

Drainage fitting for collapsible container

Images

Fig. 1

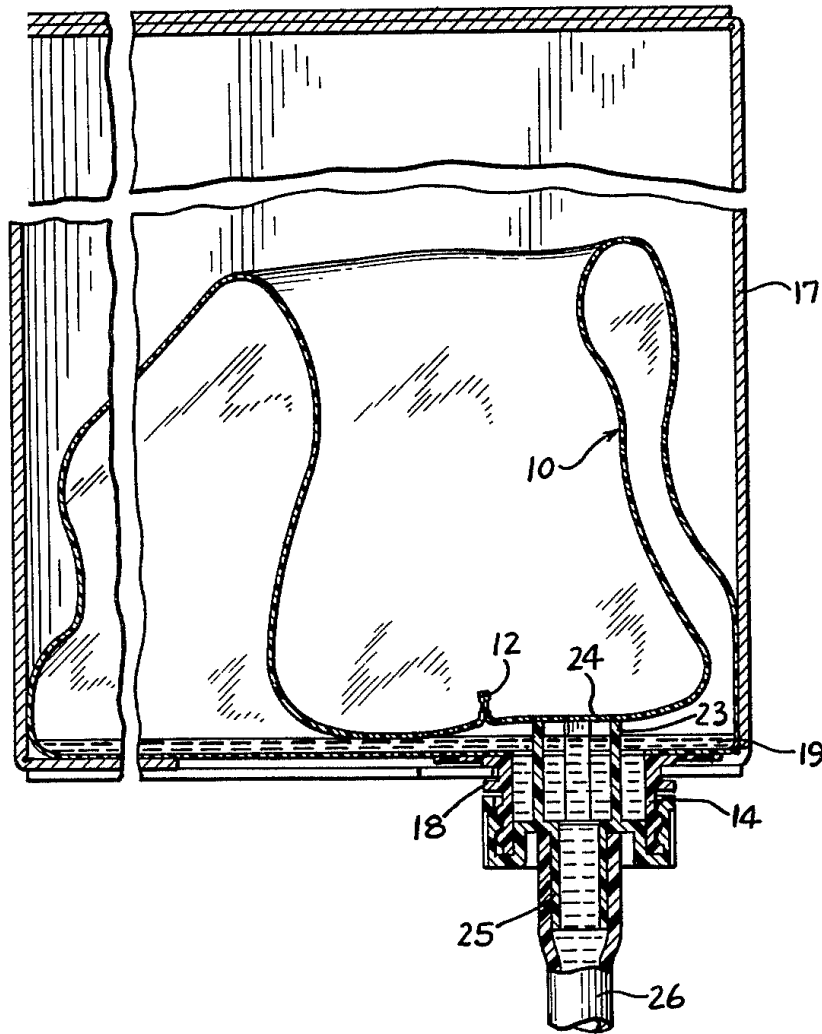


Fig. 2

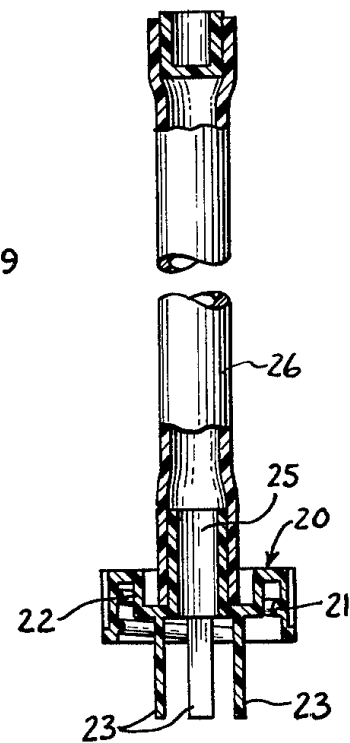
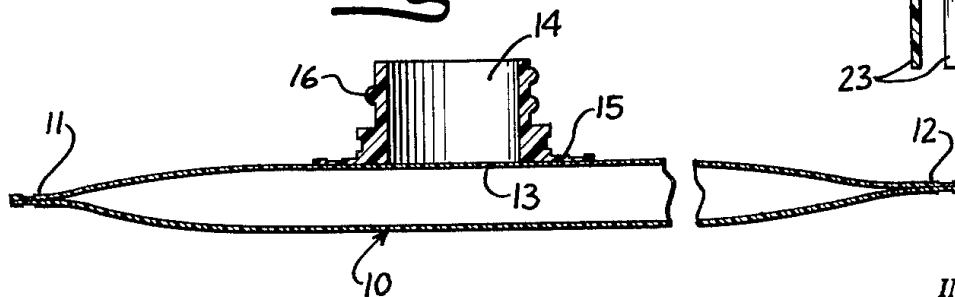


Fig. 3



INVENTOR.
WILLIAM R. SCHOLLE

BY

Gary, Desmond & Parker

Publication numbers with kind code & date

US3081911

A 1963-03-19 US3081911



Inventors

SCHOLLE WILLIAM R

Latest standardized assignees - inventors removed

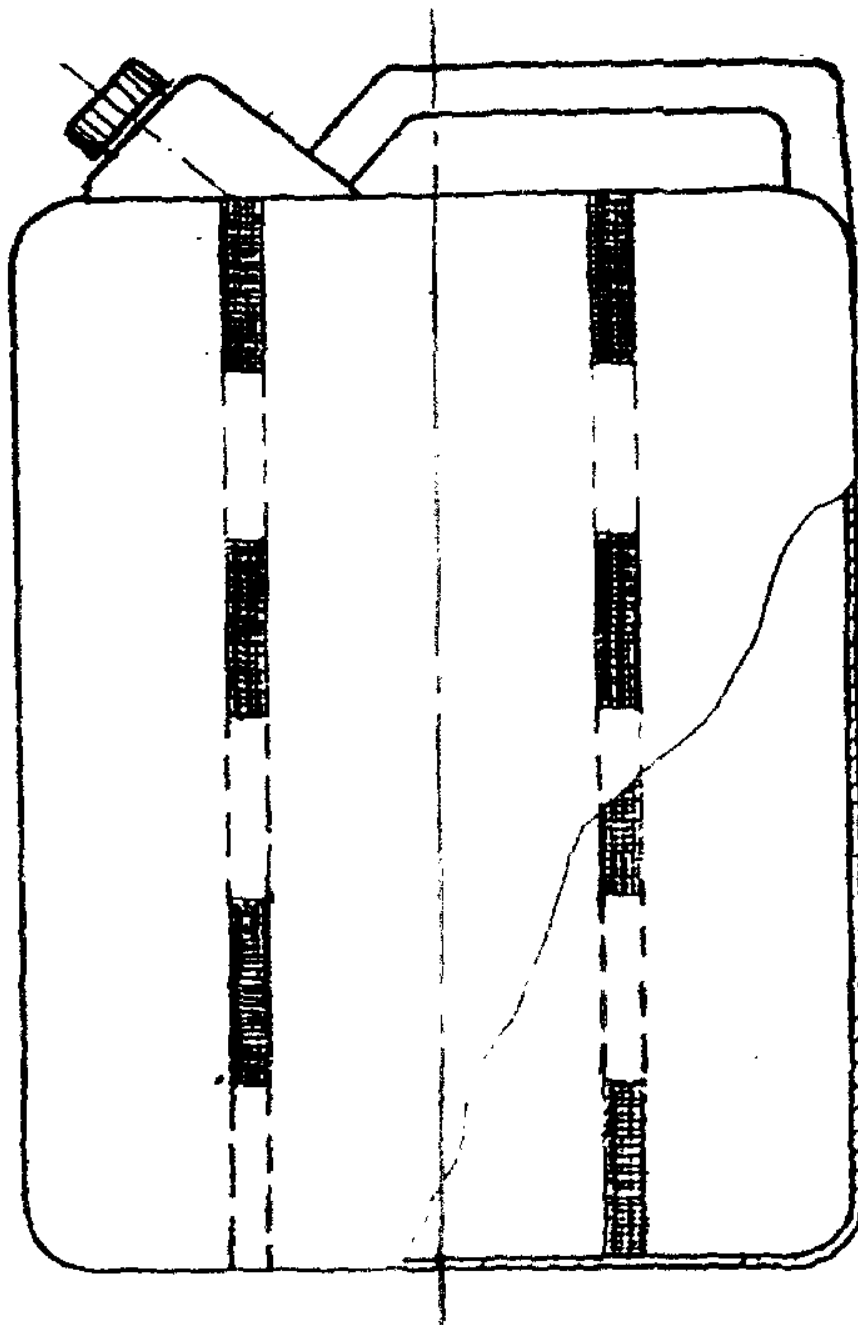
SCHOLLE CONTAINER

Family 90/100 - FAMPAT - ©Questel

Title

(CN2131823U)

Anti-electrostatic plastic bucket

Images**Publication numbers with kind code & date**

[CN2131823](#) Y 1993-05-05 CN2131823U

**Abstract**

(CN2131823)

The utility model relates to an anti-electrostatic plastic bucket, which belongs to the liquid container field. The project is put forward in order to overcome the problem of the hidden fire danger caused by the static electricity that is easily produced in the plastic bucket full of light oil. According to the utility model, an injection moulding metal electric conduction pillar is arranged at the bottom of the bucket or an injection moulding metal electric conduction web strip is positioned in the wall of

the bucket bottom; the surface of the pillar and the strip must be exposed on the inner and outer surface of the bucket. The static electricity produced by friction can be quickly guided out to the earth for safety. The utility model can be easily made into different shapes to meet the various requirements and has the advantages of low cost, long service life, easy use, etc.

Inventors

YAO CHUNLIN

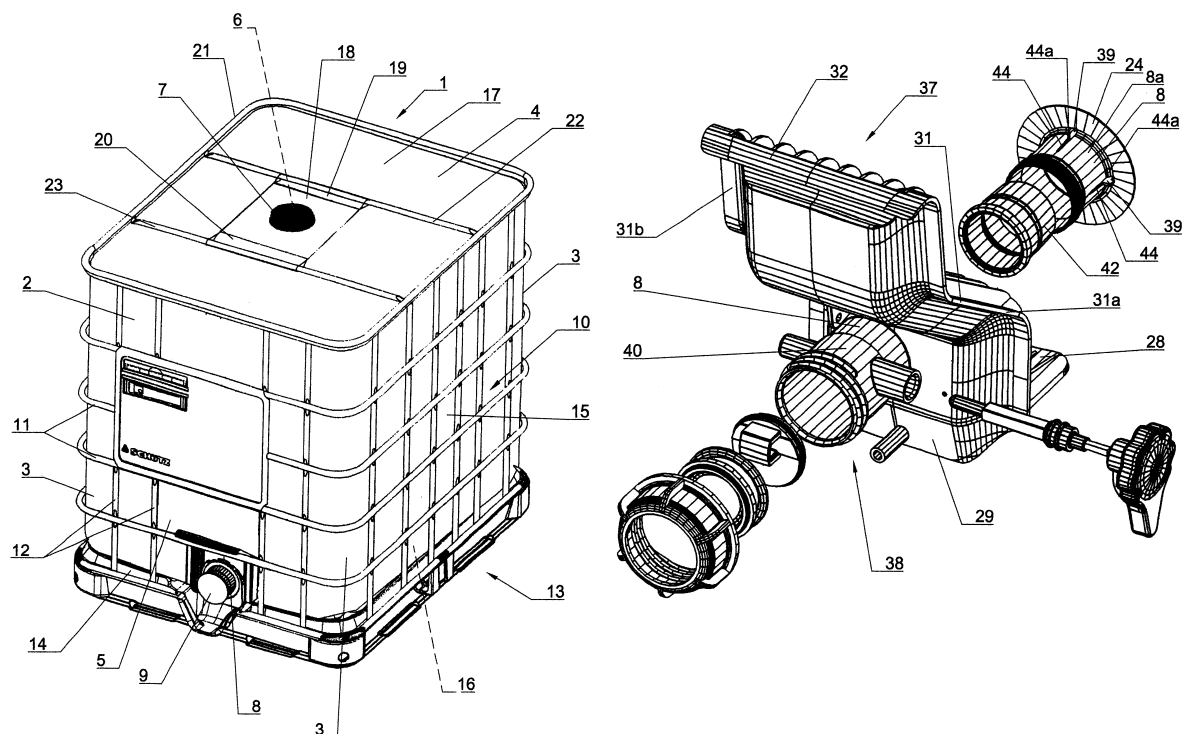
Family 91/100 - FAMPAT - ©Questel

Title

(EP1106526)

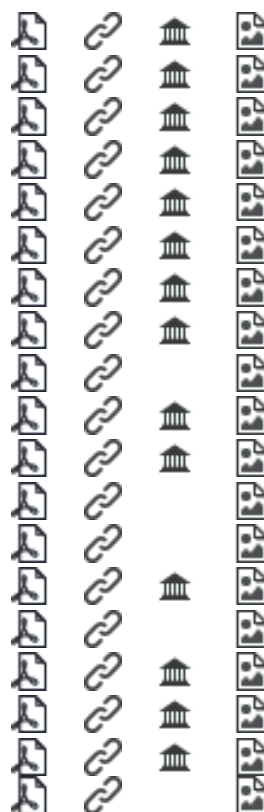
Transport and storage container for liquids

Images



Publication numbers with kind code & date

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



PL344131	A1	2001-06-18	PL2000344131				
CN1298828	A	2001-06-13	CN1298828				
EP1106526	A1	2001-06-13	EP1106526				
AU7187200	A	2001-06-07	AU200071872				
NO20005687	L	2001-06-05	NO20005687				
DE19958491	C1	2001-05-10	DE19958491				
BRPI0006794	A1	2001-04-17	BR200006794				
ZA200006244	B	2001-01-24	ZA200006244				
NO20005687	D0	2000-11-10	NO200005687				

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 (12) 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 92/100 - FAMPAT - ©Questel

Title

(FR2491825)

CONTAINER HAS MULTILAYERED WALL

Publication numbers with kind code & date

IT1139643	B	1986-09-24	IT1139643				
GB2086342	B	1985-01-03	GB2086342				
FR2491825	B1	1983-07-29	FR2491825				
ES506214	A0	1982-09-01	ES-506214				
ES8207042	A1	1982-09-01	ES8207042				
GB2086342	A	1982-05-12	GB2086342				
NL8104678	A	1982-05-03	NL8104678				
FR2491825	A1	1982-04-16	FR2491825				
BE890700	A	1982-04-13	BE-890700				
IT8124400	D0	1981-10-08	IT8124400				

Abstract

(FR2491825)

A co-extruded, blow-moulded container for milk comprises: a) a first outer layer of a thermoplastic polymer, such as high-density polyethylene, containing a filler, e.g. titanium dioxide, which inhibits light having a wavelength equal to or higher than 800 nanometres; and b) a second layer of the same polymer containing a filler, e.g. carbon black so that the second layer inhibits light having a wavelength less than 800 nanometres. A third layer of the same polymer may be located on the inner surface of the second layer, the third layer containing no filler or an "alimentary" filler, e.g. titanium dioxide.

(From GB2086342 A)

Inventors

SIARD MICHEL

LEMOINE GUY

Latest standardized assignees - inventors removed

DE502005003169	D1	2008-04-24	DE502005003169				
JP4113888	B2	2008-04-18	JP4113888				
AT388907	T	2008-03-15	ATE388907				
EP1627823	B1	2008-03-12	EP1627823				
IN1109/CHE/2005	A	2007-09-21	IN2005CH01109				
RU2302987	C2	2007-07-20	RU2302987				
DE102004039482	B4	2007-04-12	DE102004039482				
RU2005125708	A	2007-02-20	RU2005125708				
AR050839	A1	2006-11-29	AR--50839				
ZA200505894	B	2006-04-26	ZA200505894				
BRPI0504022	A	2006-03-28	BR200504022				
AU2005203614	A1	2006-03-02	AU2005203614				
DE102004039482	A1	2006-02-23	DE102004039482				
JP2006052021	A	2006-02-23	JP2006052021				
CN1736808	A	2006-02-22	CN1736808				
EP1627823	A1	2006-02-22	EP1627823				
MXPA05008457	A	2006-02-16	MX2005PA008457				
US20060032854	A1	2006-02-16	US20060032854				
NO20053492	L	2006-02-15	NO20053492				
BRPI0504022	A1	2005-11-01	BR200504022				
NO20053492	D0	2005-07-18	NO200503492				

Abstract

(EP1627823)

Liquid shipping and storage tank, has container with sidewalls, where upper corner regions between sidewalls and upper base and/or lower corner regions between sidewalls and lower base have one indentation or projection each

The tank has a rectangular-solid or cubic container with four sidewalls (3-6), an upper base with a filling socket, a lower base, and an outlet socket (11). The outlet socket is formed on a lower section of one sidewall. Upper corner regions between the sidewalls and the upper base of the container and/or lower corner regions between the sidewalls and the lower base of the container have one indentation or projection each.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

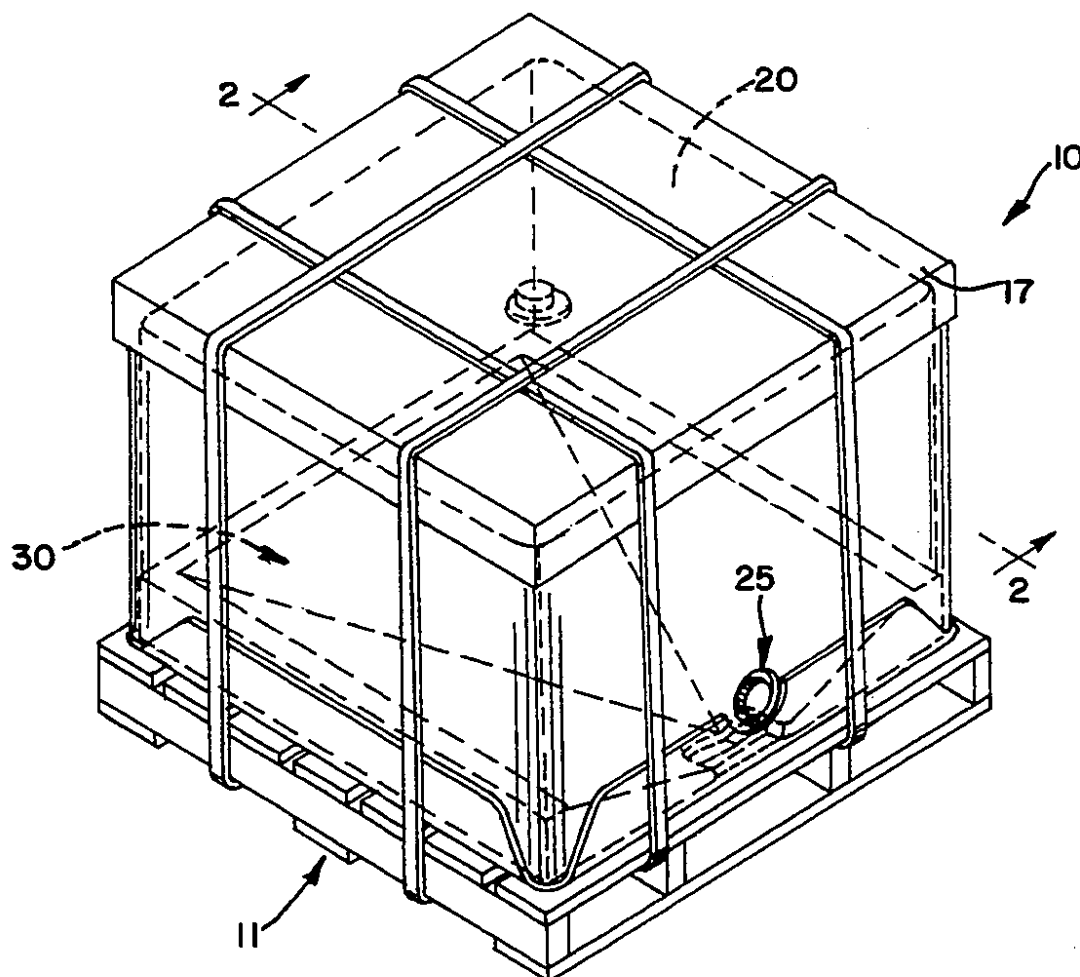
Family 94/100 - FAMPAT - ©Questel

Title

(EP-640533)

Bin-type bulk fluid container.

Images



Publication numbers with kind code & date

EP0640533	A3	1995-08-09	EP-640533
EP0640533	A2	1995-03-01	EP-640533
US5356029	A	1994-10-18	US5356029



Abstract

(EP0640533)

A foam plastic insert (30) has a body adapted to fit inside a carton (12) of a container (10). The body has a roof panel supported by wall panels. Also claimed is a bin-type bulk fluid container with a removable insert as above that deforms the bottom of its bag so that liq. flows under gravity towards an orifice (25). The insert may be polyethylene or polypropylene.

Inventors

HOGAN CHRISTOPHER T

Latest standardized assignees - inventors removed

KANEKA TEXAS

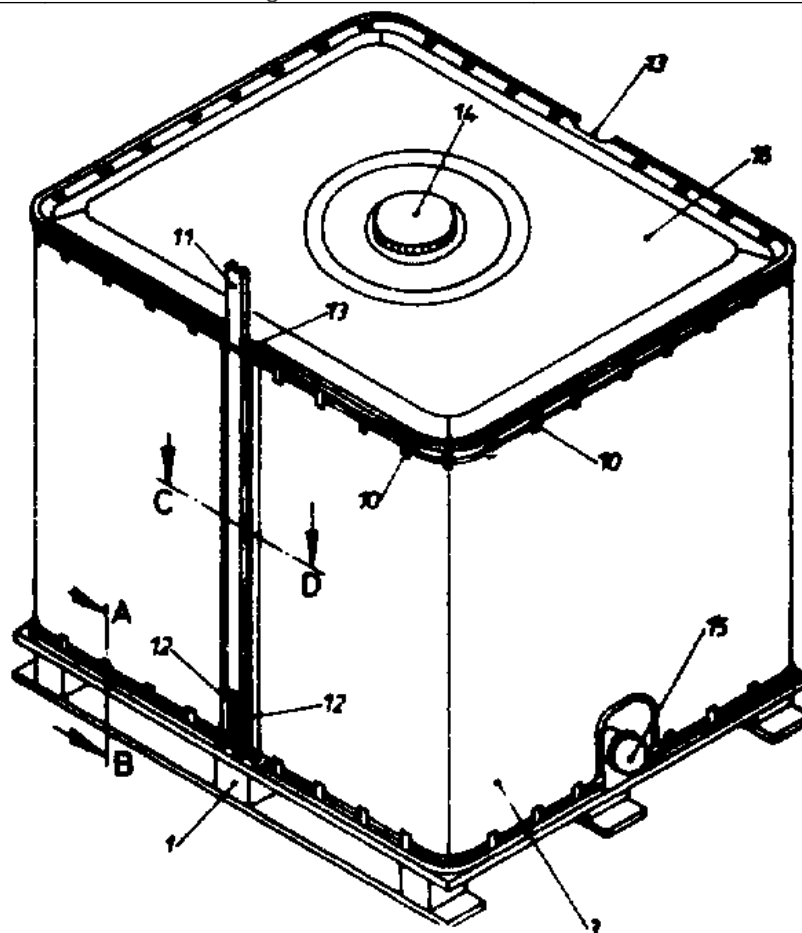
Family 95/100 - FAMPAT - ©Questel

Title

(DE3009173)

Plastics container for liquid - is nestably held on pallet by outer container with top and/or bottom releasably secured to side wall

Images

Fig. 1**Publication numbers with kind code & date**

DE3009173

A1 1981-09-24 DE3009173

**Abstract**

(DE3009173)

The container is held within a totally enclosed supporting container (3,16) on a pallet (1) such that it can be stacked. The outer container is in contact with the outer walls of the plastics inner container and has cut-outs providing access to its filling (14) and dispensing (15) openings. The outer container has a top (16) and a bottom at least one of which is releasably connected with its side wall (3). The side wall may have one or two vertical partings (13) whose edges are bent through 180 deg. in opposite directions and are held together by a C-section rail (11) engaging both bent edges.

Inventors

HAMMES THEO

BURGDORF MAERTEN DR

Latest standardized assignees - inventors removed

MAUSER WERKE

Family 96/100 - FAMPAT - ©Questel

Title

(EP1250266)

Collapsible bulk container

Images

Inventors

HARTWALL PETER

Latest standardized assignees - inventors removed

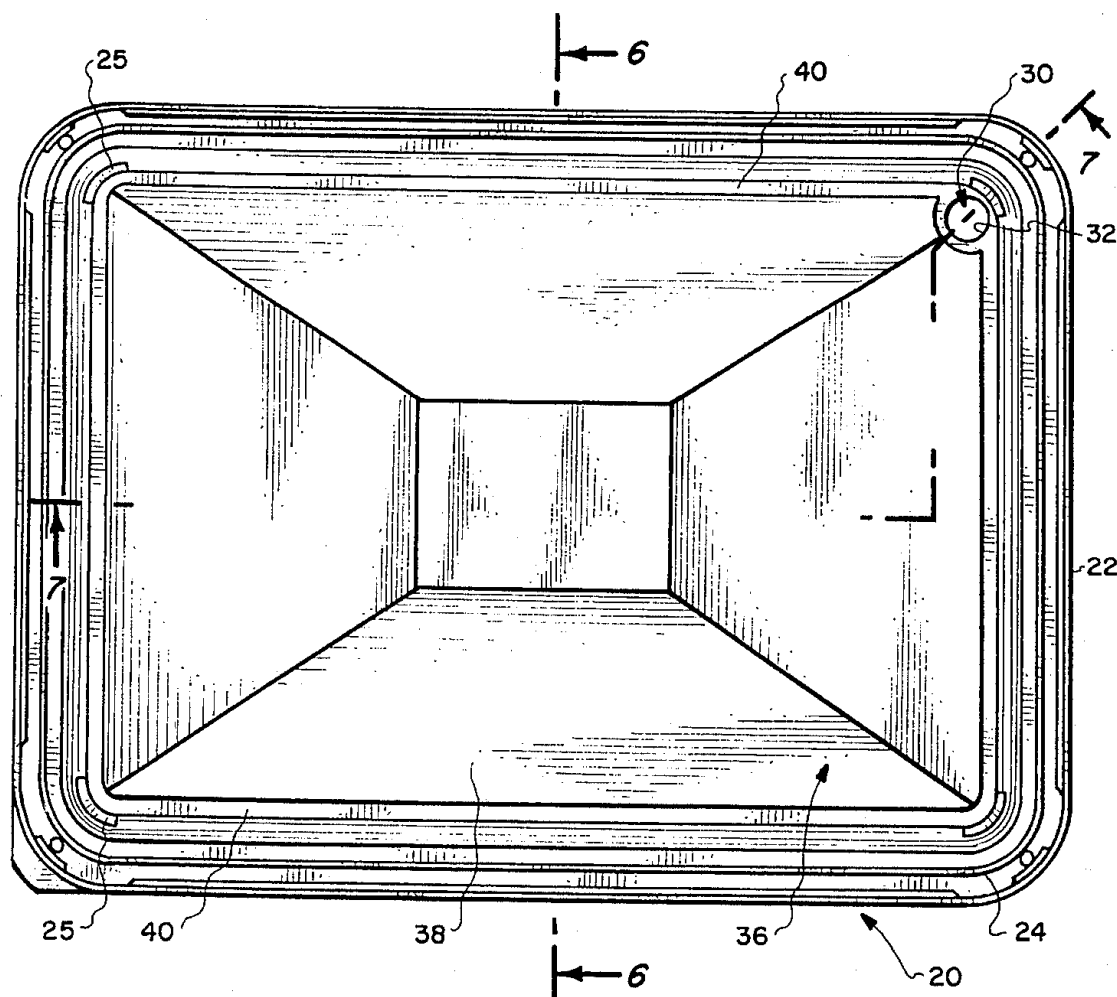
SCHOELLER ALLIBERT

Family 97/100 - FAMPAT - ©Questel

Title

(WO9607600)

Container with draining means and related method

Images**Publication numbers with kind code & date**

JP3927598	B2	2007-03-09	JP3927598
CA2199269	C	2007-02-06	CA2199269
US5908133	A	1999-06-01	US5908133
JPH10505049	A	1998-05-19	JP10505049
US5615798	A	1997-04-01	US5615798
CA2199269	A1	1996-03-14	CA2199269
WO96/07600	A1	1996-03-14	WO9607600

**Abstract**

(WO96/07600)

A container (10) for transporting particulate matter which is initially in slurry form has a base (12) and a sidewall (914) portion extending upwardly therefrom and is characterized by a downwardly extending, integrally-formed peripheral drainage channel (40) having a drainage opening (32) at a normally lowest point therein. The container bottom (12) is configured to urge liquid from the slurry toward the channel (40), and the channel is configured to urge the liquid toward the

drainage opening (32). The sidewall (14) portion defines an opening coverable by a lid. A liner (34) may be used to improve the drainage of the liquid from the slurry and from the container (10), and a plug (42) can be placed in the drainage (32) after liquid has drained from the slurry and the container (10). A supplemental elevating member can be utilized to elevate the slurry with respect to the channel. A method of use of the container is disclosed.

Inventors

LUBURIC FRANO

ROPER C RICHARD

Latest standardized assignees - inventors removed

ROPAK

BWAY

PLASTICAN

NORTH AMERICA PACKAGING

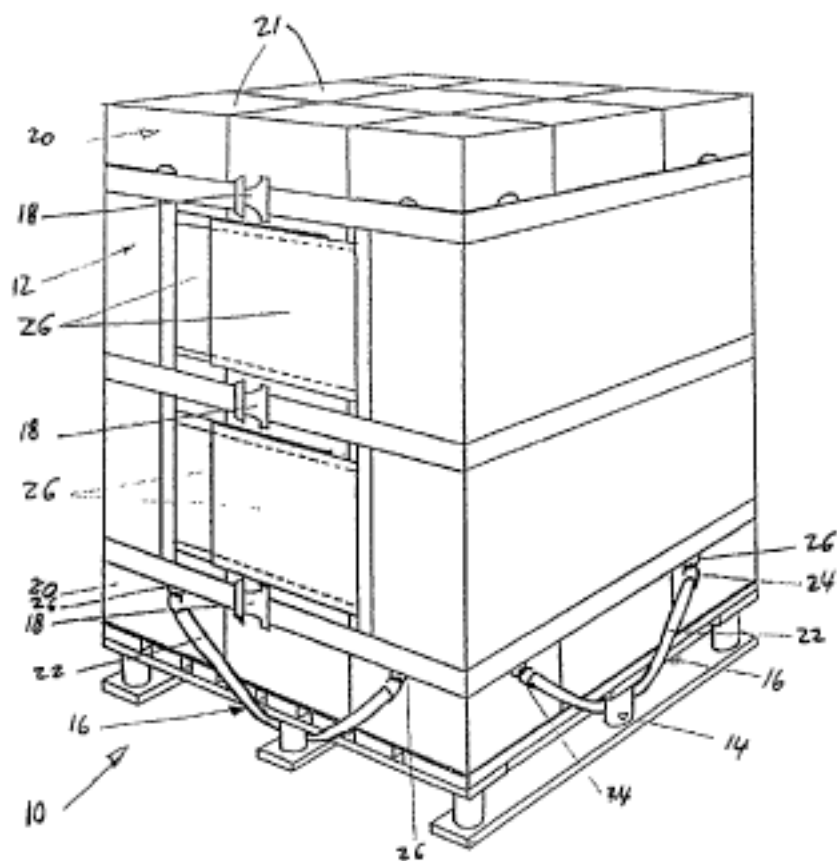
Family 98/100 - FAMPAT - ©Questel

Title

(CA2050399)

Device for the storage and transport of stacked articles

Images



Publication numbers with kind code & date

[CA2050399](#) C 2003-02-11 CA2050399

[CA2050399](#) A1 1993-03-01 CA2050399



Abstract

(CA2050399)

A reusable pallet wrap and pallet combination is disclosed as well as a reusable and adjustable pallet wrap and a pallet which is adapted to better withstand damage during handling and transport. The pallet wrap includes a flexible sheet, cooperating fasteners affixed to opposite ends of reinforcing bands extending along the sheet to permit fastening of the sheet around a stack of articles. The pallet wrap further includes terminal flaps attached to the flexible sheet, which flaps

EP0704385	A2	1996-04-03	EP-704385
DE4433923	A1	1996-03-28	DE4433923
CA2158228	A1	1996-03-15	CA2158228
BRPI9504013	A1	1995-10-17	BR9504013
DE9414911	U1	1994-11-10	DE9414911

**Abstract**

(EP0704385)

The bottom sump (12) of the container, in the outlet (14) area, below the drain cock (6) of the inner container (2), has a trough-form forwards open cavity (15). The cavity forms a middle foot (16) with a U-shaped cross-sectional profile with which the bottom sump together with three further middle feet and four corner feet stands on the pallet frame (19). The outlet area of the bottom sump is covered by a preformed part (20). This may be made of a material resistant to aggressive fluids.

Inventors

SCHUETZ UDO

Latest standardized assignees - inventors removed

PROTECHNA

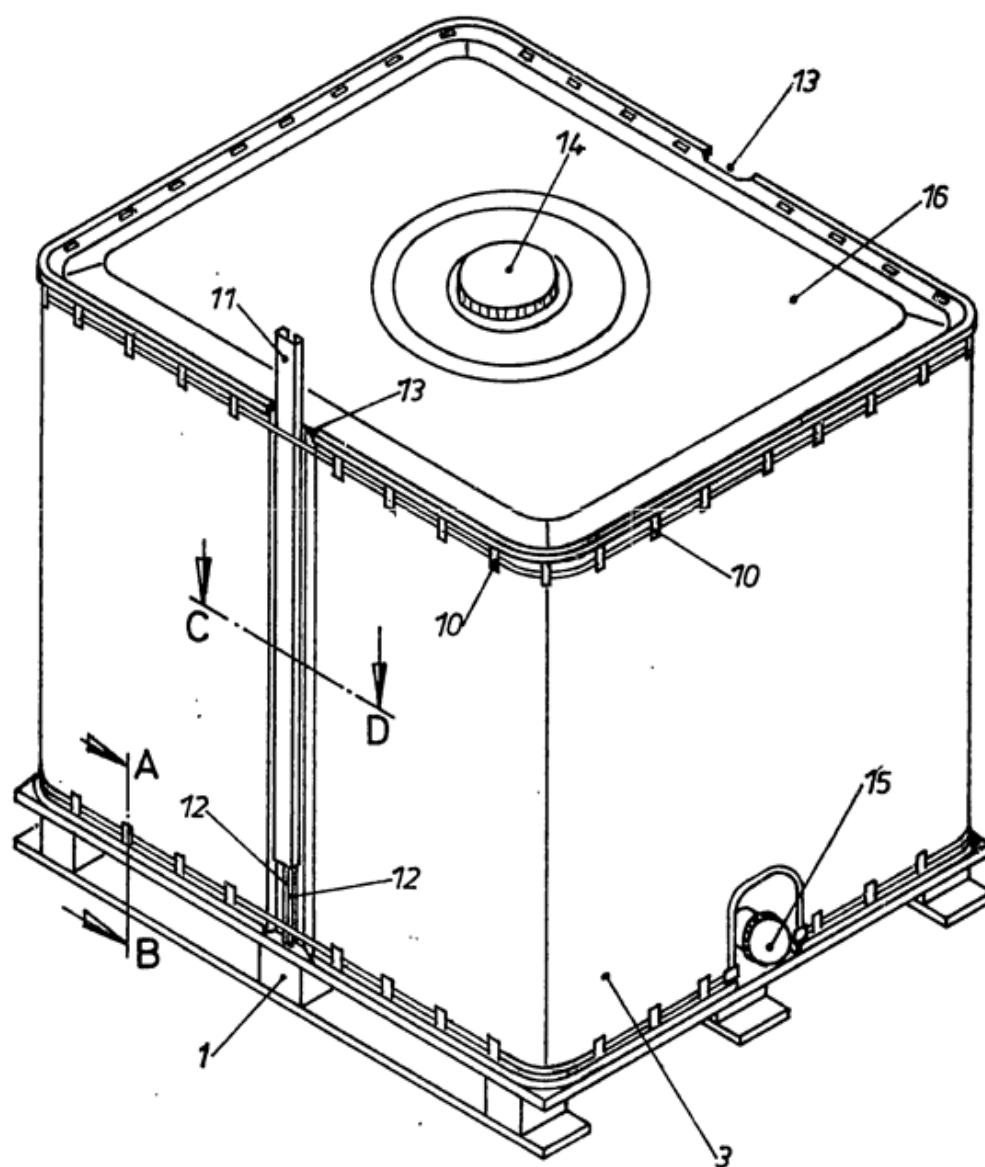
Family 100/100 - FAMPAT - ©Questel

Title

(DE8006585)

Pallet container

Images

**Fig.1**

Publication numbers with kind code & date

[DE8006585](#)

U1 1980-06-12 DE8006585



Latest standardized assignees - inventors removed

MAUSER WERKE