

Search query (4): FT=(transport and storage AND container AND "pallet-shaped" AND base AND frame AND PLASTIC AND Internal AND container AND METAL AND intermediate AND container) and PRD<20151223 and CPC=(B65D)

Results: 2

Search history

- Search 1: [SP]: A transport and storage container (20) for liquids having an internal container (22) made of plastic, an outer jacket (31), a pallet-shaped base frame (24) formed to be handled by means of wheelbarrows elevators or similar modes of transport, and comprising a support base (23) made of metal sheet for transporting the inner container (22) provided with at least one container neck (45) on an upper side (47) of the container Internal (22), CHARACTERIZED BECAUSE: an intermediate container (21) that receives the internal container (22) from all sides and that is made of metal sheet is disposed between the internal container (22) and the outer jacket, such that the intermediate container (21) prevents The flammable liquid leaves the internal container (22) to the surrounding environment of the transport and storage container (20) if the internal plastic container (22) fails due to thermal overload, said intermediate container (21) comprising an external cover (25)), a container cover (26) connected to the outer cover (25) and a container bottom connected to the external cover (25), the container bottom being formed by the support base (23) of the base frame (24) (Results 0)
- Search 2: FT=(transport and storage AND container AND "pallet-shaped base frame" AND PLASTIC AND "internal container" AND METAL AND "intermediate container") and PRD<20151223 and CPC=(B65D) (Results 0)
- Search 3: FT=(transport and storage AND container AND "pallet-shaped" AND base AND frame AND PLASTIC AND "internal container" AND METAL AND "intermediate container") and PRD<20151223 and CPC=(B65D) (Results 0)
- Search 4: FT=(transport and storage AND container AND "pallet-shaped" AND base AND frame AND PLASTIC AND Internal AND container AND METAL AND intermediate AND container) and PRD<20151223 and CPC=(B65D) (Results 2)

1) Family number: 30998007 (US2004218336A)

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Title: TRANSPORT AND STORAGE CONTAINER FOR LIQUIDS
Priority: DE20031013481 20030326 DE200450000149T 20040318

Family:	Publication number	Publication date	Application number	Application date
	AR043930 AA	20050817	AR2004P101011	20040326
	AU2004201200 AA	20041014	AU20040201200	20040322
	AU2004201200 BB	20050818	AU20040201200	20040322
	BRPI0401084 A	20050111	BR2004PI01084	20040326
	BRPI0401084 B1	20141216	BR2004PI01084	20040326
	CN100415616 C	20080903	CN200410032207	20040325
	CN1533955 A	20041006	CN200410032207	20040325
	DE10313481 A1	20041021	DE20031013481	20030326
	DE10313481 B4	20050707	DE20031013481	20030326
	DE502004000149 D1	20060105	DE200450000149T	20040318
	DK1462386 T3	20051227	DK20040006477T	20040318
	EP1462386 A1	20040929	EP20040006477	20040318
	EP1462386 B1	20051130	EP20040006477	20040318
	ES2250937 T3	20060416	ES20040006477T	20040318
	IN00258CH2004 A	20051202	IN2004CH00258	20040322
	IN201506 B	20070223	IN2004CH00258	20040322
	JP2004292056 A2	20041021	JP20040090954	20040326
	JP3978435 B2	20070919	JP20040090954	20040326
	MXPA04002770 A1	20050419	MX2004PA02770	20040324
	MY139175 A	20090828	MY20040001024	20040323
	NO20041244 A	20040927	NO20040001244	20040325
	NO20041244 L	20040927	NO20040001244	20040325
	NO328196 B1	20100104	NO20040001244	20040325
	RU2263618 C1	20051110	RU20040108860	20040325
	US2004218336 AA	20041104	US20040809045	20040325
	US7210594 BB	20070501	US20040809045	20040325
	ZA200402004 A	20040511	ZA20040002004	20040312

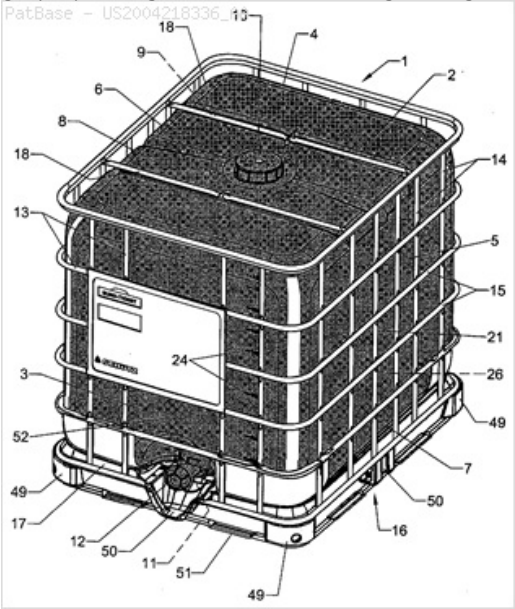
Probable Assignee: PROTECHNA SA
Assignee(s):(std): PROTECHNA S A ; PROTECHNA SA
Assignee(s): M S PROTECHNA S A ; PROTECHNA S A FREIBURG FRIBOURG
Inventor(s):(std): SCHUETZ UDO ; SCHUTZ UDO ; SHUTZ U ; UDO SCHUTZ ; UDO SCHUETZ ; U SHUTZ ; SCHULTZ UDO
Inventor(s): UDO SCHULTZ
Agent(s): PHILLIPS ORMONDE FITZPATRICK; FRIEDRICH
Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR
International class (IPC 8-9): B32B27/32 B65D19/02 B65D25/14 B65D77/04 B65D77/06 B65D8/04 B65D88/12 B65D90/00 B65D90/46 B67D7/32 (Advanced/Invention); B32B27/32 B65D19/02 B65D25/14 B65D77/04 B65D77/06 B65D88/00 B65D90/00 B65D90/22 B67D7/32 (Core/Invention)
International class (IPC 1-7): B32B27/32 B65D019/02 B65D047/04 B65D077/06 B65D090/46 B65D19/02 B65D19/10 B65D25/00 B65D25/14 B65D35/14 B65D47/04 B65D77/04 B65D77/06 B65D8/04 B65D88/12 B65D90/00 B65D90/46 H05F3/00
CPC: B65D77/0466 B65D2213/02 B67D7/3236
European class: B65D77/04D1P B65D77/06A B67D7/32E L65D213/02
US class: 220/1.6 361/215

[Classification Explorer](#)

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Forward Citations: US9902633, US9828267, US9669330, US9401298, US9211158, US9120038, US9079125, US8844753, US8561642, US7908980, US7656642, US7210594, US7148554, US7148554, US2012260416, US2012241447, US2011089171, US2009000525, US2008210368, US2008043398, US10421678, US10221084, KR20170105502, KR102042326, KR101428605, KR101284459, JP5378341, JP5175895, JP4917633, JP2018503566, JP2011111235, JP2010241507, JP2010047318, JP2009523674, JP2007062848, EP2157028, EP1852390, DE202012105050, DE202006020793, DE102005031282, CN104443717,

Abstract:
A transport and storage container for liquids has a support frame of electrically conducting metal or plastic material. An inner plastic container is positioned on the support frame and has an electrically conducting exterior layer for electrically grounding the outer surface of the inner container. The inner container has an outlet socket with an electrically conducting outer layer arranged near the bottom. The outlet socket is formed as a unitary part of the inner container and has an outer cylindrical end drawn inwardly to form an inner ring with an annular electrically conducting inner layer that is in contact with liquid in the inner container for electrically grounding the interior of the inner container. The electrically conducting inner and outer layers of the outlet socket and the external container layer form a homogenous electrically conducting layer providing inner and outer electric grounding.



2) Family number: 13607091 (US5467884A)

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Title: METAL CONTAINER FOR TRANSPORT AND STORAGE OF LIQUIDS

Priority: DE19934341338 19931204 DE19945007771 19941121 CA19942137215 19941202
US19940353350 19941205 DE19951001176 19950117 EP20190501176 19950117
US19950412533 19950315 DE19965011077 19960104 EP19960100067 19960104
CA19962167131 19960112 CZ20030014202U 20030430

Family:	Publication number	Publication date	Application number	Application date
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	AT275613 E	20040915	AT19960100067T	19960104
	AU199480208 A1	19950615	AU19940080208	19941202
	AU199640930 A1	19960725	AU19960040930	19960111
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	CA2167131 AA	19960718	CA19962167131	19960112
	CN1045421 C	19991006	CN19941019375	19941203
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	CZ13896 A3	19960814	CZ19960000138	19960116
	CZ13896 U1	20040218	CZ20030014202U	20030430
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	CZ9402929 A3	19951115	CZ19940002929	19941128
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ZA9600316 A	19960808	ZA19960000316	19960116

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Inventor(s): UDO SCHUTZ ; SCHETZ UDO ; SCHUTZ WERKE GMBHAND COKG ; U SCHUETZ ; SCHUETZ UDO D 56242 SELTERS WW DE ; MEIXNER JUERGEN DR 47803 KREFELD DE ; REBUSCINI CLAUDIO DR 47807 KREFELD DE ; FISCHER WOLFGANG DR 40668 MEERBUSCH DE ; MUELLER MANFRED 41812 ERKELENZ DE ; JURGEN MEIXNER

Agent(s): PHILLIPS ORMONDE FITZPATRICK; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO; OGILVY RENAULT LLP SENCRL SRL; REINHOLD COHN AND PARTNERS; SHIBATA YASUO; AOYAMA TAMOTSU

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

International class (IPC 8-9): A44B19/00 A44B19/36 A44B19/38 A44B19/60 B21D51/18 B60B39/02 B65D19/06 B65D19/08 B65D6/00 B65D77/04 B65D77/06 B65D88/02 B65D88/54 B65D90/00 B65D90/02 B65D90/20 C08F2/50 C08F283/01 C08G63/20 C08G63/52 C08G63/553 C08J3/28 C08L67/06 C09D167/02 C09D167/06 E04H7/04 (Advanced/Invention); B65D6/00 B65D77/04 (Advanced/Non-invention); A44B19/00 A44B19/24 A44B19/42 B21D51/16 B60B39/00 B65D19/02 B65D6/00 B65D77/04 B65D77/06 B65D88/00 B65D90/02 B65D90/12 C08F2/46 C08F283/00 C08G63/00 C08L67/00 C09D167/02 C09D167/06 E04H7/00 (Core/Invention)

International class (IPC 1-7): B21D51/18 B23K11/06 B60B39/02 B65D19/00 B65D19/06 B65D19/08 B65D51/18 B65D6/00 B65D6/10 B65D6/32 B65D6/36 B65D6/40 B65D77/06 B65D8/04 B65D88/02 B65D88/12 B65D88/28 B65D88/54 B65D90/00 B65D90/02 B65D90/20 C08F283/01 C08G63/553 C09D167/06 E04H7/04

CPC: Y10S220/917 B65D77/0466 Y02W30/807 C08F283/01 C08G63/553 C08L67/06 C09D167/06 Y10S430/109 Y10T428/31786 Y10T428/3179 Y10T428/31794

European class: B65D77/04D1P B65D77/06A C08F283/01 C08G63/553 C08L67/06 C09D167/06

US class: 219/83 220/1.5 220/401 220/612 220/917 228/137 228/155 228/157 228/184 427/487 428/480 428/481 428/482 430/285.1 430/908 522/104 522/107 522/179

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Forward Citations: WO16005253, WO10021308, WO0046269, WO0023495, WO0008108, US8060996, US7874443, US6971536, US6634659, US6384151, US6268464, US6070786, US5984163, US5794779, US5645185, US2016326728, US2010275422, US2009277900, US2007252497, US2006032854, US2002130129, JP4932157, JP3497129, JP3497128, JP2006502286, JP2001171737, JP2001163358, EP1838753, EP1838753, EP1549695, EP1549695, EP0879771, DE19920011, DE102011103468, DE102010033738, CN109153483, CN105754458, CN104118661, CN103662314, AU739967,

Abstract:

A sheet metal container (1) used as a returnable or nonreturnable container for transport and storage of liquids has a fill neck (3) which can be sealed with a cap (4) and another neck (5) in the bottom area for connecting a discharge and flushing cock, and an external lattice jacket (6) of metal. A pallet (9) is formed as a flat bottom pan (10) from sheet for form-fittingly accommodating the sheet metal container (1) which is equipped with a drainage bottom. The sheet metal container (1) is welded together from a jacket (11), a bottom part (12) and a cover (13). The jacket (11), bottom part (12) and cover (13) of the container (1) are produced with a double wall of composite construction consisting of a thin inner sheet of corrosion-proof special steel and an outer sheet of normal steel with a thickness greater than that of the inner sheet. It is possible to produce the container (1) of clad sheet metal with a thin inner layer of special steel and a thicker outer layer of normal steel.

