

1) Family number: 32287376 (US2005253015A)

© PatBase

Title: UNWINDING APPARATUS FOR REELING OFF COILED MATERIAL

Abstract: An unwinding apparatus for reeling off coiled material includes a take-up device for supporting the coiled material. The take-up device has a plurality of spaced-apart arms extending radially in a plane, with at least one of the arms swingably mounted in the plane. Swingably mounted to at least one of the arms is a centering pin so that the centering pin extends in a transport position in parallel relationship to the arm.

Classifications:

International (IPC 8-9): B65H49/28 B65H49/30

B65H75/24 (Advanced/Invention);

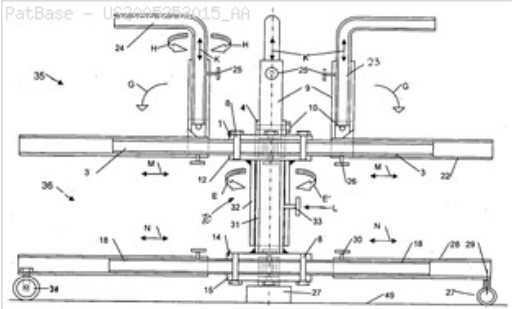
B65H49/00 B65H75/18 (Core/Invention)

International (IPC 1-7): B65H49/28 B65H49/30 B65H51/20 G11B23/04

CPC: B65H49/30 B65H49/305

European: B65H49/28 B65H49/30 B65H49/30B

US: 242/557 242/578



Family:

Publication number	Publication date	Application number	Application date
AT456534 E	20100215	AT20050102574T	20050401
DE102004016658 A1	20051027	DE200410016658	20040405
DE502005008935 D1	20100318	DE200550008935T	20050401
DK1584593 T3	20100531	DK20050102574T	20050401
EP1584593 A1	20051012	EP20050102574	20050401
EP1584593 B1	20100127	EP20050102574	20050401
US2005253015 AA	20051117	US20050096444	20050401
US7448570 BB	20081111	US20050096444	20050401

Priority:

DE200410016658 20040405

Probable Assignee: SCHMITZ MICHAEL

Assignee(s): (std): BOEHNISCH RUDOLF ; BOHNISCH RUDOLF ; SCHMITZ MICHAEL

Inventor(s): (std): BOHNISCH RUDOLF ; BOEHNISCH RUDOLF

Agent(s): BECKMANN JUERGEN; HENRY M FEIEREISEN LLC; FEIEREISEN HENRY M; DAY URSULA B; HENRY M; URSULA B

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

2) Family number: 23482116 (US6419424B)

© PatBase

Title: Coil pipe trailer

Abstract: A trailer for transporting coiled pipe and assisting in the unwinding of the pipe for laying in a trench. A support cradle contacts the outer surface of the coil, thereby obviating the need for a reel. The cradle includes self-centering support rollers upon which the coil freely rotates during the pipe laying operation. Horizontal rollers are provided as a retainer for engaging the inner surface of the coil. The position of the retainer rollers is adjustable to accommodate a variety of coil diameters. To remove coil set from the pipe unwinding from the coil, a reforming assembly includes a straightener and rerounder. The pipe reforming assembly is mounted on rollers on the base of the trailer for translating back and forth to track the pipe during unwinding to maintain alignment. The rerounder and straightener are provided with a releasable gate and top portion respectively, to assist in the loading and unloading of the pipe in the reforming assembly. In one embodiment, straightening occurs in the transition from the coil in the cradle to the reforming assembly.

Classifications:

International (IPC 8-9): B65H49/24 B65H49/32 B65H57/14 F16L1/032

F16L1/06 (Advanced/Invention)

International (IPC 1-7): B65H16/00 B65H23/00 F16L1/028

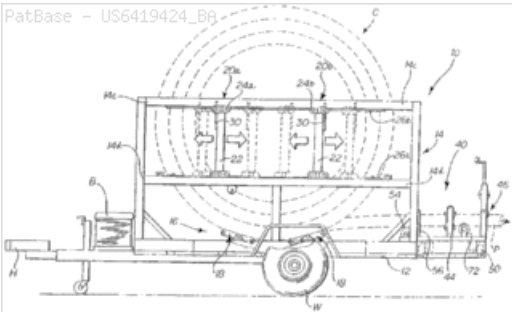
CPC: B65H49/24 B65H49/32 B65H57/14 B65H2701/33 F16L1/032

F16L1/065

European: B65H49/24 B65H49/32 B65H57/14 F16L1/032 F16L1/06B

L65H701/33 L65H730/300

US: 242/557 242/566 242/595.1 242/615.2 405/154.1 405/156 405/174 405/177



Family:

Publication number	Publication date	Application number	Application date
US6419424 BA	20020716	US19990471888	19991223

Priority:

US19980189661 19981111 US19990471888 19991223

Probable Assignee: MOUNTAINEER GAS CO

Assignee(s): (std): MOUNTAINEER GAS COMPANY ; NULL S MACHINE AND MFG INC

Assignee(s): MOUNTAINEER GAS CO ; NULL S MACHINE AND MFG

Inventor(s): (std): BOGGS FRANKLIN S ; NULL ROBERT L ; RONK ROBERT L ; WALLER KENDRALL P

3) Family number: 11142055 (US5806779A)

© PatBase

Title: Fence dispensing apparatus and method for its use

Abstract: An apparatus and method for unrolling fencing for use with a vehicle. The apparatus comprises a frame with an upright support and a bottom, a first and second gate, each gate having a back edge and a front edge, the back edge of each gate pivotally connected to the frame such that the gates can open and close, with the front edge of the first gate adjacent to the front edge of the second gate when the gates are closed. The apparatus preferably includes hydraulic cylinders for opening and closing the gates. It also preferably includes a rotatable bottom plate. The bottom plate optionally has a pin attached to it whereby a roll of fencing having a center hole can be placed on the bottom plate over the pin and unwound. The apparatus preferably includes an adapter attached to the frame for attachment to the vehicle.

Classifications:

International (IPC 8-9): E04H17/26 (Advanced/Invention);
E04H17/26 (Core/Invention)

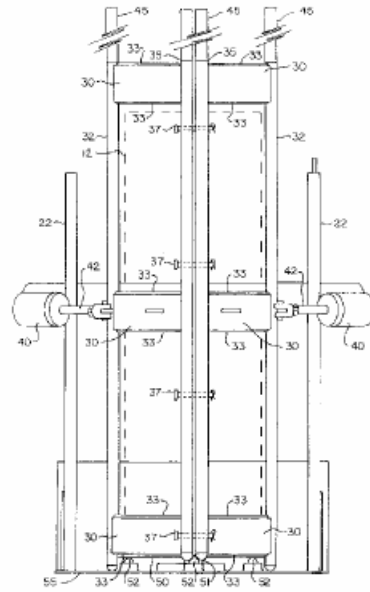
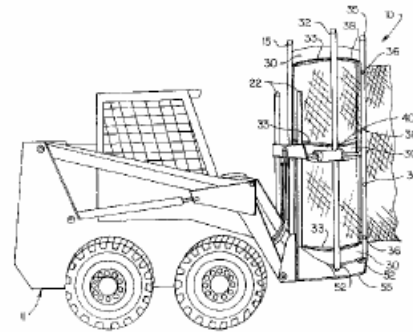
International (IPC 1-7): B65H75/42

CPC: E04H17/266

European: E04H17/26B3

US: 242/399.1 242/403 242/419.4 242/533.8 242/557

PatBase - US5806779_A

**Family:**

Publication number	Publication date	Application number	Application date
US5806779 A	19980915	US19970890188	19970709

Priority:

US19950567963 19951206 US19970890188 19970709

Probable Assignee:

CRUM LLOYD E

Assignee(s): (std):

CRUM LLOYD E

Inventor(s): (std):

CRUM LLOYD E

4) Family number: 7399581 (US4148445A)

© PatBase

Title: Apparatus and method for dispensing and retrieving flexible pipe

Abstract: Flexible pipe used to supply water to remotely located drilling rigs, typically made from a suitable synthetic resin such as polyethylene, is laid and retrieved from spools or reels mounted with a vehicle as the vehicle is moving. The vehicle may be a truck or a trailer drawn by a truck or tractor. Guiding structure is provided on the vehicle to facilitate loading and unloading of the pipe from the reels.

Classifications:

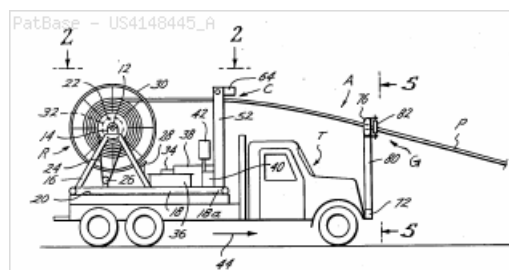
International (IPC 8-9): B65H75/34 B65H75/44
E21B19/22 (Advanced/Invention)

International (IPC 1-7): B65H17/46

CPC: B65H75/425 B65H75/4402 B65H75/4407 B65H75/4489
B65H2701/33 E21B19/22

European: B65H75/42V B65H75/44B B65H75/44B2B B65H75/44M4
E21B19/22 L65H701/33 L65H730/300

US: 242/388.7 242/397.1 242/397.2 242/397.5 242/403 242/86.5R

**Family:**

Publication number	Publication date	Application number	Application date
US4148445 A	19790410	US19770815294	19770713

Priority:

US19770815294 19770713

Probable Assignee: MIDLAND TANK RENTAL COMPANY

Assignee(s): (std): MIDLAND TANK RENTAL COMPANY

Assignee(s): MIDLAND TANK RENTAL CO

Inventor(s): (std): SULLIVAN LAWRENCE J ; SAPPINGTON JACK L ; REYNOLDS JOHN L

5) Family number: 22210419 (US3088769A)

© PatBase

Title: EXPANSIBLE LIFT FOR HOLLOW OBJECTS

Abstract: (Claim 1) 1. An expansible lift for hollow objects having internal bores or recesses opening upwardly, said lift comprising a plurality of arcuately curved, angularly related shoes forming in conjunction a generally cylindrical head 70 having a vertical axis, a lift member disposed for vertical movement centrally in said head, toggle links pivotally connected at their inner ends to said lift member and at their outer ends to each of said shoes, said toggle links being upwardly inclined toward said shoes whereby upward movement of said lift member will expand said shoes and downward movement of said lift members will contract said shoes, a feeler member affixed to said lift member and normally resting on the tops of said shoes whereby to limit downward movement of said lift member relative to said head, said feeler member extending 5 outwardly from said head whereby to engage the top of an object to be lifted as said head is lowered into the bore thereof, and thereby arrest downward movement of said lift member, a vertical shaft disposed centrally of said head for vertical movement relative thereto and 10 extending thereabove, means for attaching the upper end of said shaft to a hoist, a hanger member carried by the upper portion of said shaft, support members extending between said hanger members and each of said shoes, said support members permitting radial movement of 15 said shoes and downward movement of said shaft relative to said shoes, a lug affixed to said lift member, an upwardly opening hook carried by said shaft in vertical alignment with said lug, said hook being spaced above said lug when said shoes are suspended by said support 20 members, said hook being horizontally movable with respect to said shaft whereby to pass beneath and engage said lug, and means for moving said hook horizontally.

Classifications:

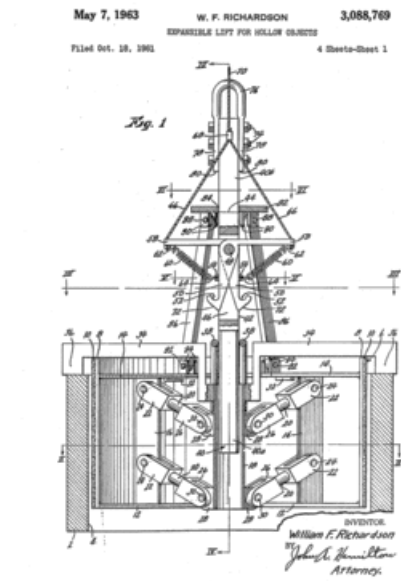
International (IPC 8-9): B66C 1/54 (Advanced/Invention);
B66C 1/42 (Core/Invention)

International (IPC 1-7): B66C 1/56

CPC: B66C 1/54

European: B66C 1/54

US: 294/110.1 294/97



Family:

Publication number	Publication date	Application number	Application date
US3088769 A	19630507	US19610145845	19611018

Priority:

US19610145845 19611018

Probable Assignee:	FLEX O LATORS
Assignee(s): (std):	FLEX O LATORS
Assignee(s):	FLEX O LATORS INC
Inventor(s): (std):	RICHARDSON WILLIAM F

6) Family number: 21736371 (US2677476A)

© PatBase

Title: BELT CARRIER TRUCK

Abstract: (Claim 1) What I claim as new and desire to secure by 'r_ettters Patent Is: 1.

Classifications:

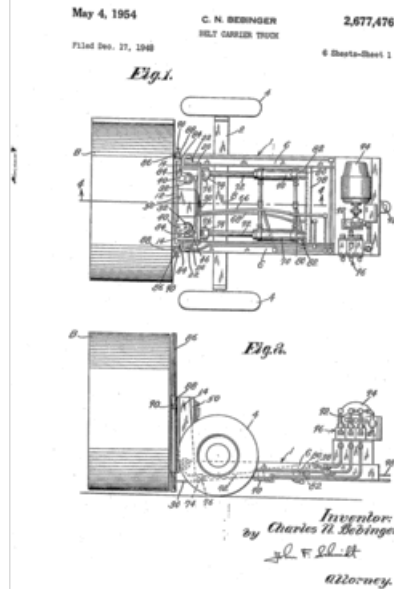
International (IPC 8-9): B60P3/035 (Advanced/Invention);
B60P3/00 (Core/Invention)

International (IPC 1-7): B66F9/12

CPC: Y10S414/13 B60P3/035

European: B60P3/035

US: 242/557 242/588 414/629 414/785 414/917

**Family:**

Publication number	Publication date	Application number	Application date
US2677476 A	19540504	US19480065914	19481217

Priority:

US19480065914 19481217

Probable Assignee:

JOY MFG CO

Assignee(s): (std):

JOY MFG CO

Assignee(s):

JOY MANUFACTURING COMPANY

Inventor(s): (std):

BEBINGER CHARLES N

7) Family number: 60560712 (US2015292282A)

© PatBase

Title: APPARATUS AND METHOD FOR PULLING AND LAYING POLY PIPE

Abstract: An apparatus for pulling irrigation poly provides a transportable poly reel rig with a reel spool pivotally mounted to the reel rig. A manual primary brake is in hydraulic braking communication with the reel spool to manually control free spooling. A secondary brake, hydraulically integrated in a planetary gear drive connected to the spool, is activated automatically when hydraulic pressure falls below a safe level. A top alignment reel positioned under the reel spool, and a bottom alignment reel positioned under the top alignment reel, facilitate alignment of the reel spool with a well bore. A wire roller operating in concert with the reel spool facilitates attachment to and take-up of wire attached to the poly. Two or more hydraulic stabilizers stabilize the rig, as does a boom assembly mounted to the reel rig. Methods of using the apparatus utilize a smaller crew of operators than with prior apparatus.

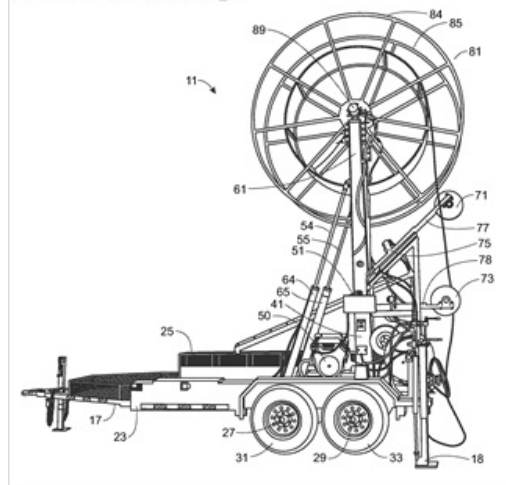
Classifications:

International (IPC 8-9): B65H75/42 B65H75/44 E21B19/00 E21B19/22 E21B23/00 (Advanced/Invention)

CPC: E21B19/22 B65H75/425 B65H75/4442 B65H2701/33 E21B19/008

US: 1/1 166/385 166/68

PatBase - US2015292282_AA



Family:

Publication number	Publication date	Application number	Application date
US2015292282 AA	20151015	US20140253532	20140415
US9476269 BB	20161025	US20140253532	20140415

Priority:

US20140253532 20140415

Probable Assignee:

WG MFG

Assignee(s): (std):

DYCK PETER E ; WG MFG

Inventor(s): (std):

DYCK PETER E

Agent(s):

MATTHEW

8) Family number: 2968494 (US4538775A)

© PatBase

Title: Apparatus for the spindleless mounting, as well as the cutting and cutting to length and simultaneous measurement of spools

Abstract: The invention comprises a frame having open bearings for removably receiving the spindle of a reel therein. Each of the bearings is mounted for vertical movements to control the operation of a brake for automatically regulating the braking force against the reel or spool as a function of the weight thereof. The construction is such that the reels or spools can be easily replaced without disassembling the apparatus.

Classifications:**International (IPC 8-9):** B65H49/32 B65H61/00 B65H75/22

G01B5/00 (Advanced/Invention);

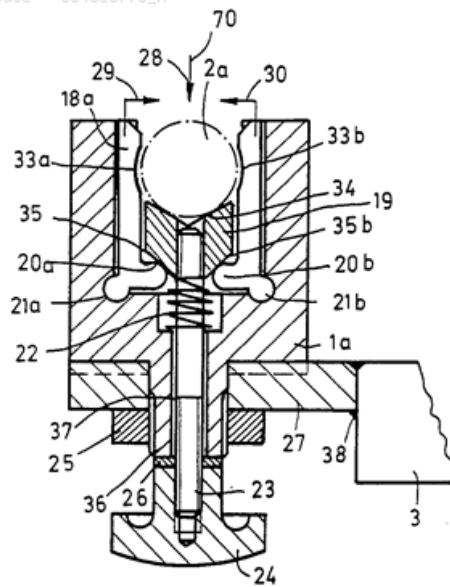
B65H49/00 B65H61/00 B65H75/18 G01B5/00 (Core/Invention)

International (IPC 1-7): B60T13/04 B65H54/72 B65H75/30 F16D51/16**CPC:** B62B2202/025 B65H49/32 B65H49/325 B65H61/00 B65H75/22

G01B5/0002

European: B65H49/32 B65H49/32F2 B65H61/00 B65H75/22 G01B5/00B
L62B202/025**US:** 188/75 242/129.51 242/129.8 242/557 242/598.3 242/612 242/99

PatBase - US4538775_A

**Family:**

Publication number	Publication date	Application number	Application date
DE3134824 A1	19830310	DE19813134824	19810903
US4538775 A	19850903	US19820414538	19820903

Priority:

DE19813134824 19810903

Probable Assignee: KABELMAT APPARATEBAU HANS DEIS**Assignee(s):** (std): DEISSENBERGER HANS ; KABELMAT APPARATEBAU HANS DEIS**Assignee(s):** KABELMAT APPARATEBAU HANS DEISSENBERGER**Inventor(s):** (std): DEISSENBERGER HANS**9) Family number: 69341338 (US2018186269A)**

© PatBase

Title: INSTALLATION TRAILER FOR COILED FLEXIBLE PIPE AND METHOD OF UTILIZING SAME

Abstract: A system includes a trailer frame, a lifting mechanism coupled to the trailer frame, wherein the lifting mechanism is configured to raise or lower a coil of pipe or a reel of pipe, a braking mechanism configured to apply pressure to the pipe while the pipe is being deployed by the system, and a hydraulic power unit configured to hydraulically power the system.

Classifications:**International (IPC 8-9):** B60P1/16 B60P1/26 B60P3/035 B62D63/06

B65H49/20 B65H49/32 B65H49/38 B65H59/06 B65H67/02 B65H75/32

B65H75/42 F16L1/06 (Advanced/Invention)

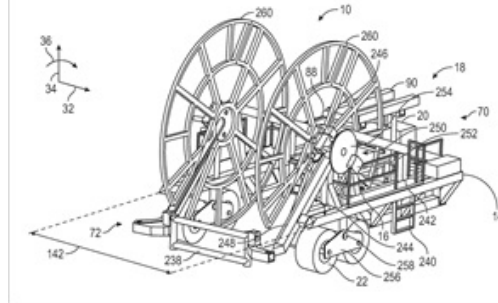
International (IPC 1-7): B60P1/16 B60P1/26 B60P3/035 B62D63/06

B65H49/38 B65H75/42

CPC: B60P1/162 B65H75/32 B65H49/32 B65H59/06 B62D63/061

B60P3/035 B65H67/02 B65H2701/33 B60P1/025

US: 242/562

**Family:**

Publication number	Publication date	Application number	Application date
AR109915 AA	20190206	AR2017P102827	20171010
AU2017344000 AA	20190418	AU20170344000	20171009
BR112019007181 A2	20190702	BR20191107181	20171009
CA3040109 AA	20190410	CA20173040109	20171009
CN109996749 A	20190709	CN201780072783	20171009
CO20190003948 A2	20190430	CO20190003948	20190418
IN201917017436 A	20190712	IN201917017436	20190501
SG11201902985W A1	20190530	SG20191102985	20171009
US2018186269 AA	20180705	US20180908816	20180301
WO18071336 A1	20180419	WO2017US55772	20171009

Priority:

US20160406231P 20161010 WO2017US55772 20171009 US20180908816 20180301

Probable Assignee: TRINITY BAY EQUIPMENT HOLDINGS LLC

Assignee(s): (std): TRINITY BAY EQUIPMENT HOLDINGS LLC

Assignee(s): BARNETT ALEXANDER RYAN ; HEGLER MATTHEW ALLEN

Inventor(s): (std): BARNETT ALEXANDER RYAN ; HEGLER MATTHEW ALLEN

Inventor(s): ALEXANDER RYAN BARNETT ; MATTHEW ALLEN HEGLER

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; GREENBERG TRAURIG LLP ET AL

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

10) Family number: 67172074 (US2017291527A)

© PatBase

Title: PIPE DEPLOYMENT TRAILER

Abstract: A trailer is provided having a trailer base and a trailer bed mounted to the trailer base. The trailer includes at least one actuator coupled to the trailer bed and the trailer base that raises and lowers the trailer bed. When the at least one actuator is extended, the trailer bed is raised to a vertical orientation. When the at least one actuator is retracted, the trailer bed is in the horizontal orientation. The trailer includes a lifting head protruding outwardly from the trailer bed. The position of the lifting head is adjustable along a longitudinal axis of the trailer bed.

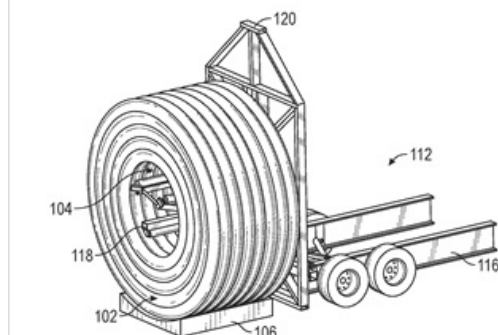
Classifications:

International (IPC 8-9): B60P1/16 B60P1/28 B60P1/48 B60P3/00 B60P3/035 B62D63/06 E21B19/00 E21B19/14 (Advanced/Invention)

International (IPC 1-7): B60P1/48 B60P3/00 B62D63/06

CPC: B60P1/16 B60P1/28 E21B19/146 B60P3/035 E21B19/008

US: 242/396.5 414/469

**Family:**

Publication number	Publication date	Application number	Application date
AU2016401677 AA	20181025	AU20160401677	20160408
BR112018070732 A2	20190212	BR20181170732	20160408
CA3020274 AA	20181005	CA20163020274	20160408
CN109641547 A	20190416	CN201680086571	20160408

CO20180011902 A2	20181113	CO20180011902	20181101
EA201892270 A1	20190329	EA20180092270	20160408
EP3439914 A1	20190213	EP20160898122	20160408
IN201817039274 A	20190125	IN201817039274	20181016
MX2018012325 A1	20190306	MX20180012325	20160408
SG11201808846P A1	20181129	SG20181108846	20160408
US2017291527 AA	20171012	US20170445519	20170228
US2017292337 AA	20171012	US20160337110	20161028
US2018050624 AA	20180222	US20170799595	20171031
US2018050625 AA	20180222	US20170799615	20171031
US10150402 BB	20181211	US20170445519	20170228
US10207624 BB	20190219	US20170799595	20171031
US10207625 BB	20190219	US20170799615	20171031
US10266093 BB	20190423	US20160337110	20161028
WO17176285 A1	20171012	WO2016US26673	20160408

Priority:

WO2016US26673 20160408 US20160337110 20161028 US20170445519 20170228
US20170799595 20171031 US20170799615 20171031

Probable Assignee: TRINITY BAY EQUIPMENT HOLDINGS LLC

Assignee(s): (std): FLEXSTEEL PIPELINE TECH INC ; FLEXSTEEL PIPELINE TECHNOLOGIES INC ; TRINITY BAY EQUIPMENT HOLDINGS LLC

Assignee(s): WHITE CHRISTOPHER ; WINN ALEXANDER LEE ; HELBING KYLE

Inventor(s): (std): WINN ALEXANDER ; HELBING KYLE ; WHITE CHRISTOPHER ; CHRISTOPHER WHITE ; KYLE HELBING ; ALEXANDER LEE WINN ; WINN ALEXANDER LEE

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; FUCHS PATENTANWAELTE PARTNERSCHAFT MBB; GREENBURG TRAUIG LLP; MASON DWAYNE; CHRETIEN MARK; GREENBERG TRAUIG LLP; MASON DWAYNE L; CHRETIEN MARK G; CHRETIEN MARK G ET AL

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

11) Family number: 66903923 (WO17147656A1)

© PatBase

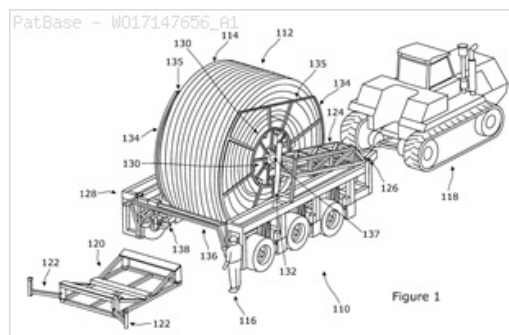
Title: A TRAILER FOR UNCOILING PLASTIC PIPE

Abstract: An uncoiling trailer (110) is used for uncoiling large, plastic pipe coil (112). The uncoiling trailer uses a re-usable bobbin (130) to secure the pipe coil (112) within the uncoiling or de-coiling trailer (110). A relay or succession of bobbin and pipe coil assemblies (130, 112) may be loaded into the de-coiling trailer (110) in exchange for an empty or spent bobbin (130) from the uncoiling trailer (110). The empty bobbin (130) may be re-loaded with another pipe coil (112) further down the laying track. A tailgate (136) of the uncoiling trailer (110) has a take-off head (138) with a pipe haul- off. In use the take-off head (138) may be used to pull the uncoiling pipe section through the take-off head (138) against a coupled braking resistance applied to the rotation of the uncoiling pipe coil (112) and / or bobbin (130).

Classifications:

International (IPC 8-9): B21F1/02 B60P3/035 B65H49/10 B65H75/24 F16L1/00 F16L1/024 F16L1/032 F16L1/10 (Advanced/Invention)

CPC: F16L1/065 B65H75/425 B65H49/32 B65H75/245 B65H75/248 B65H75/4407 B65H2701/33 B60P3/035



Family:

Publication number	Publication date	Application number	Application date
AU2017225909 AA	20181025	AU20170225909	20170302
WO17147656 A1	20170908	WO2017AU50184	20170302

Priority:

AU20160900775 20160302 WO2017AU50184 20170302

Probable Assignee: VINIDEX PTY LTD

Assignee(s): (std): K L H PROMOTIONS PTY LTD ; VINIDEX PTY LTD

Assignee(s): KLH PROMOTIONS PTY LTD

Inventor(s): (std): KEAVY BRENDAN ROBERT ; FEROS NICHOLAS ; CELLIERS GEOFFREY HARRY ; WOOD STEVEN ROBERT

Agent(s): HALFORDS IP; RICHARDS ADRIAN ET AL

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

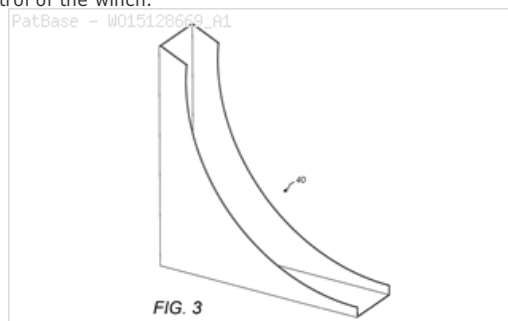
Title: VEHICLE FOR TRANSPORTING AND DISPENSING COILED PIPE

Abstract: Disclosed is a vehicle (1) for transporting and dispensing coiled pipe (520), comprising: an outer frame (10) arranged substantially around a periphery of the vehicle, such that the coiled pipe (520) is located inside the outer frame (10) for transit; a winch (100) and a towing line, the towing line arranged to couple with a free end of the pipe and being configured to transport the free end of the pipe towards a dispensing portion of the trailer, under control of the winch.

Classifications:

International (IPC 8-9): B65H49/08 B65H49/24 B65H49/30 B65H49/32
B65H51/18 B65H51/28 F16L1/06 (Advanced/Invention)

CPC: B65H49/24 B65H49/30 B65H51/18 B65H51/28 B65H2701/33
F16L1/065 B65H49/08 B65H49/32



Family:

Publication number	Publication date	Application number	Application date
GB201403601 A0	20140416	GB20140003601	20140228
GB201615876 A0	20161102	GB20160015876	20150227
GB2523592 A1	20150902	GB20140003601	20140228
GB2538478 A1	20161116	GB20160015876	20150227
WO15128669 A1	20150903	WO2015GB50581	20150227

Priority:

GB20140003601 20140228 WO2015GB50581 20150227

Probable Assignee: UTILITY INNOVATIONS SOLUTIONS LTD

Assignee(s): (std): UTILITY INNOVATIONS SOLUTIONS LTD

Inventor(s): (std): IREDALE JOHN JOSEPH ; JOHN JOSEPH IREDALE ; KNOWLES STEPHEN GEORGE ; STEPHEN GEORGE KNOWLES

Agent(s): DAVIES ROBERT EAN

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

Title: Rolled carpet handling truck

Abstract: (Claim 1) 1. A truck for handling rolls of carpet and the like, comprising base; plurality of wheels; means mounting said wheels beneath the base for movement of the base; pair of posts extending upwardly from said base; travelling frame having sleeve members extending downwardly over the posts and a lower crosshead interconnecting the sleeve members at their lower ends and an upper crosshead interconnecting the sleeve members at their upper ends; means for moving said traveling frame axially with respect to said posts; an expander arm; and means for selectively and releasably affixing said arm to each of said crossheads.

Classifications:

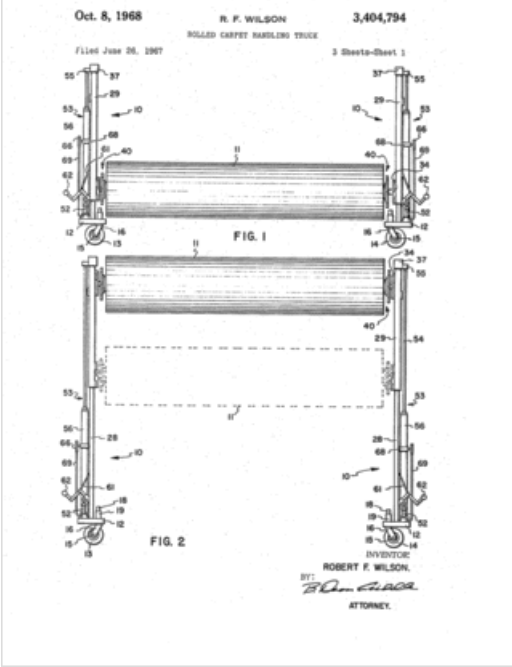
International (IPC 8-9): A47F7/17 B62B3/065 (Advanced/Invention)

International (IPC 1-7): A47F7/17 B66F9/18

CPC: A47F7/175 B62B3/0618

European: A47F7/17B B62B3/06F

US: 214/653 414/458 414/618 414/621



Family:

Publication number	Publication date	Application number	Application date
US3404794 A	19681008	US19670648770	19670626

Priority:

US19670648770 19670626

Probable Assignee:

ROBERT F WILSON

Assignee(s): (std):

ROBERT F WILSON

Inventor(s): (std):

WILSON ROBERT F