

1) Family number: 71409916 (US2018282108A)

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Title: HYDRAULIC TRUCK BED REEL LIFT APPARATUS

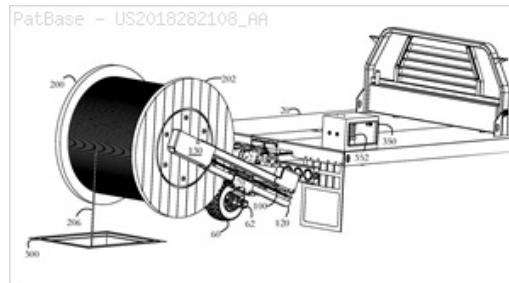
Abstract: A vehicle-mounted reel lifting apparatus for rotating the reel to dispense or wind the reelable material. A driven wheel engages the rim of the reel at a plurality of reel lifting arm pivot positions, such as sliding alongside the lifting arm in an axis parallel with the lifting arm. The driven wheel is capable of engaging with the reel at any position of the lifting arm. A linear drive mechanism allows the driven wheel to travel up and down the lifting arm to accommodate various reel sizes. The lifting arm may incorporate an automatic locking slot having a spring-driven locking mechanism. The lifting arms may also be mounted with a mounting bracket having a pattern of slots to enable the lifting arms to be selectively mounted in a narrow configuration or a wide configuration.

Classifications:

International (IPC 8-9): B60P1/48 B60P3/035 B65H75/24 B65H75/42 B65H75/44 B66C1/62 (Advanced/Invention)

CPC: B65H75/425 B60P1/48 B66C2700/0357 B65H75/4481 B65H75/24 B66C1/62 B66D1/14 B66D1/20 B66D1/28 B65H75/4457 B65H75/4486 B60P3/035

US: 1/1 242/393

**Family:**

Publication number	Publication date	Application number	Application date
CA2999624 AA	20180930	CA20182999624	20180329
US2018282108 AA	20181004	US20180939498	20180329

Priority:

US20170478666P 20170330 US20170573223P 20171017 US20180939498 20180329

Probable Assignee: TRIPLE C MFG INC

Assignee(s): (std): ACKERMAN GALEN R ; RUSSELL JAY R ; STRATHMAN EDWIN J ; TRIPLE C MFG INC

Inventor(s): (std): RUSSELL JAY R ; STRATHMAN EDWIN J ; ACKERMAN GALEN R

Agent(s): RIDOUT AND MAYBEE LLP

2) Family number: 48517430 (US2011072874A)

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Title: CONTINUOUS ROD TRANSPORT SYSTEM

Abstract: A transport system has a dedicated trailer for transporting a small transport reel (i.e., <18-ft in diameter) of continuous rod to the field. The trailer has a pedestal that can pivot the reel. A hub motor on the pedestal can turn the reel, and a transfer unit and rod bender on the trailer can curve or straighten the rod when being fed into or out of the reel. A power and hydraulic system operates the various hydraulic components on the trailer. In other aspects, the transport system includes stands that can hold the small transport reels on a trailer within a defined transport envelope. When empty, these stands can be stacked on top of one another on the trailer for return to a facility.

Classifications:

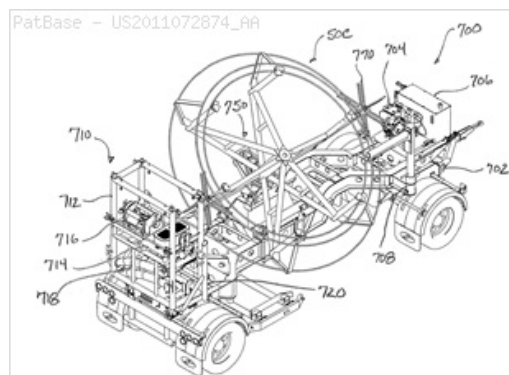
International (IPC 8-9): B21C47/04 B21C47/24 B21C47/28 B21D3/12 B60P3/00 B60P3/035 B60P7/00 B60P7/08 B62D63/06 B62D63/08

B65D85/04 B65H49/18 B65H49/32 B65H49/34 B65H49/38 B65H54/44 B65H75/00 B65H75/20 B65H75/22 B65H75/30 B65H75/36 B65H75/38 B65H75/40 B65H75/44 E21B19/14 E21B19/22 (Advanced/Invention); F04B47/00 (Advanced/Non-invention)

CPC: B65H75/20 B65H75/22 B65H75/364 B65H2701/534 B21C47/04 B21C47/24 B21C47/28 B60P3/035 B65H49/38 E21B19/22 B65H75/4402 B65H2701/33

European: B21C47/04 B21C47/24 B21C47/28 B60P3/035 B65H49/38 B65H75/20 B65H75/22 B65H75/36B2 E21B19/22 L65H701/534

US: 211/13.1 211/13.100P 242/129 242/386 242/407 242/407S 242/564 242/564S 242/592 242/592S 242/604 242/604S 410/44 410/47 410/48 72/183 72/183P

**Family:**

Publication number	Publication date	Application number	Application date
AU2010219302 AA	20110414	AU20100219302	20100906
AU2010219302 BB	20130117	AU20100219302	20100906
AU2011236064 AA	20120517	AU20110236064	20111017
AU2011236064 BB	20150409	AU20110236064	20111017

CA2714456 AA	20110328	CA20102714456	20100907
CA2714456 C	20150203	CA20102714456	20100907
CA2756358 AA	20120427	CA20112756358	20111026
CA2756358 C	20151215	CA20112756358	20111026
CA2869925 AA	20110328	CA20102869925	20100907
CA2869925 C	20180918	CA20102869925	20100907
DE602010015339 D1	20140605	DE201060015339T	20100928
DE602011024553 D1	20160512	DE201160024553T	20111027
EP2301879 A2	20110330	EP20100251670	20100928
EP2301879 A3	20110615	EP20100251670	20100928
EP2301879 B1	20140423	EP20100251670	20100928
EP2447464 A2	20120502	EP20110186976	20111027
EP2447464 A3	20131009	EP20110186976	20111027
EP2447464 B1	20160330	EP20110186976	20111027
US2011072874 AA	20110331	US20100912848	20101027
US2011073552 AA	20110331	US20090568053	20090928
US2015014462 AA	20150115	US20140502435	20140930
US2015016915 AA	20150115	US20140502395	20140930
US8864428 BB	20141021	US20090568053	20090928
US8869580 BB	20141028	US20100912848	20101027
US9637038 BB	20170502	US20140502395	20140930
US9873366 BB	20180123	US20140502435	20140930

Priority:

US20090568053 20090928 CA20102714456 20100907 EP20100251670 20100928
US20100912848 20101027 CA20112756358 20111026 EP20110186976 20111027
US20140502435 20140930 US20140502395 20140930 CA20142714456 20141114

Probable Assignee: WEATHERFORD TECHNOLOGY HOLDINGS LLC

Assignee(s): (std): BASLER HERMANN ; WEATHERFORD LAMB INC ; WEATHERFORD LAMB ; PENNER JONATHAN PAUL ; WEATHERFORD TECHNOLOGY HOLDINGS LLC ; WEATHERFORD TECH HOLDINGS LLC

Assignee(s): WEATHERFORD LAMB INC2000 ST. JAMES PLACEHOUSTONTX77056US ; WEATHERFORD TECHNOLOGY HOLDINGS LLC HOUSTON ; BASLER HERMANNBOX 2162STONY PLAINA1T7Z 1X7CA ; DEUTSCHE BANK TRUST CO AMERICAS ADMINISTRATIVE AGENT AS ; PENNER JONATHAN P ; PENNER JONATHAN P413 CALDERON CRESCENTEDMONTONA1T6V 1R1CA

Inventor(s): (std): PENNER JONATHAN P ; BASLER HERMANN ; PENNER JONATHAN PAUL

Inventor(s): BASLER HERMANNBOX 2162STONY PLAINA1T7Z 1X7CA ; PENNER JONATHAN P413 CALDERON CRESCENTEDMONTONA1T6V 1R1CA ; PENNER JONATHAN P EDMONTON ; BASLER HERMANN EDMONTON ; JONATHAN P PENNER ; HERMANN BASLER

Agent(s): FISHER ADAMS KELLY; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; FISHER ADAMS KELLY PTY LTD; GOODWIN MCKAY; GOODWIN LAW; PARLEE MCLAWS LLP; RIDOUT AND MAYBEE LLP; MARKS AND CLERK LUXEMBOURG LLP; SHANKS ANDREW; WONG CABELLO LUTSCH RUTHERFORD AND BRUCCULERI LLP; WONG CABELLO LUTSCH RUTHERFORD BRUCCULERI LLP; BLANK ROME LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

3) Family number: 43590330 (US2009196723A)

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Title: CABLE REEL TRAILER

Abstract: The present invention pertains to a trailer for lifting and transporting cable reels. The trailer has a base, a pair of substantially perpendicular cantilevers, and a latch assembly. The cantilevers lift a cable reel off of the ground, and the latch assembly transfers at least a portion of the weight of the reel from the cantilevers to the base. The base is mounted on wheels and can be pulled or pushed by a vehicle connected to the base.

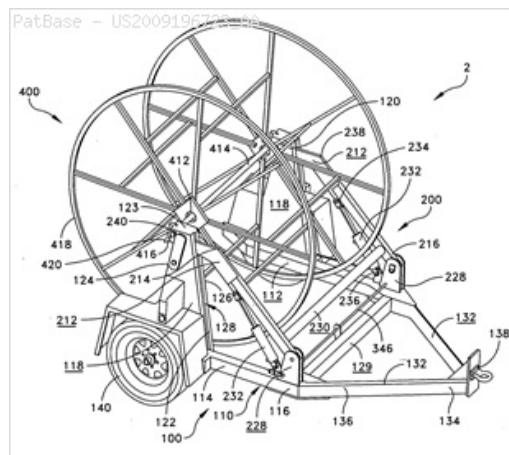
Classifications:

International (IPC 8-9): B60P1/00 B60P1/48 B60P3/035 B65H18/00 B65H19/20 B65H20/00 B65H49/26 B65H49/32 B65H49/38 B65H59/00 (Advanced/Invention); B60P1/00 B60P3/00 B65H18/00 B65H19/10 B65H20/00 B65H49/00 (Core/Invention)

CPC: B65H49/38 B65H49/325 B60P3/035

European: B60P3/035 B65H49/32F2 B65H49/38

US: 242/416 242/416S 242/557 242/598.2 242/598.5 242/598.500S 414/546 414/546P 414/812 414/812S



Family:

Publication number	Publication date	Application number	Application date
CA2714517 AA	20090813	CA20092714517	20090206
US2009196723 AA	20090806	US20090366862	20090206

US2011116902 AA	20110519	US20100946181	20101115
US2014056674 AA	20140227	US20130069879	20131101
US2015166297 AA	20150618	US20150635490	20150302
WO09100329 A1	20090813	WO2009US33388	20090206

Priority:

US20080026615P 20080206 US20080105524P 20081015 US20090366862 20090206
WO2009US33388 20090206 US20100946181 20101115 US20130069879 20131101
US20150635490 20150302

Probable Assignee: REELSTONG LLC

Assignee(s): (std): DEAN WENGER ; FERGUSON JOHN ; FORDE BRIAN F ; LLOYD GLICK ; REELSTRONG LLC ; SMITH NOEL C ; ZITKUS JOHN

Assignee(s): REELSTONG LLC

Inventor(s): (std): FORDE BRIAN F ; SMITH NOEL C ; WENGER DEAN ; ZITKUS JOHN ; GLICK LLOYD ; FERGUSON JOHN ; DEAN WENGER ; LLOYD GLICK

Agent(s): DUANE MORRIS LLP - PHILADELPHIA,IP DEPARTMENT; DUANE MORRIS LLP PHILADELPHIA IP DEPARTMENT; APICELLI SAMUEL W ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 67172074 (US2017291527A)

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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:

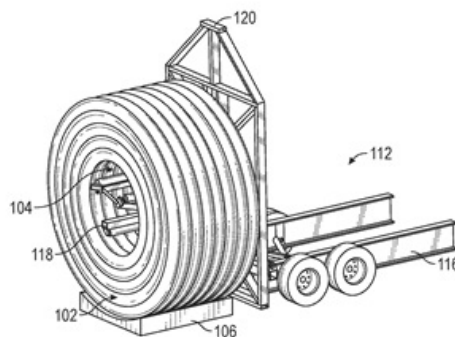
International (IPC 8-9): B60P1/16 B60P1/28 B60P1/48 B60P3/00 B60P3/035 B62D63/06 E21B19/00 E21B19/14 F16L1/032 (Advanced/Invention)

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

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

US: 1/1 242/396.5 414/469

PatBase - US2017291527_AA



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
EP3439914 A4	20191127	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 ; WINN ALEXANDER LEE ; CHRISTOPHER WHITE ; KYLE HELBING ; ALEXANDER LEE WINN

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; FUCHS PATENTANWALTE 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

5) Family number: 69341338 (US2018186269A)

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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): B60P1/02 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)

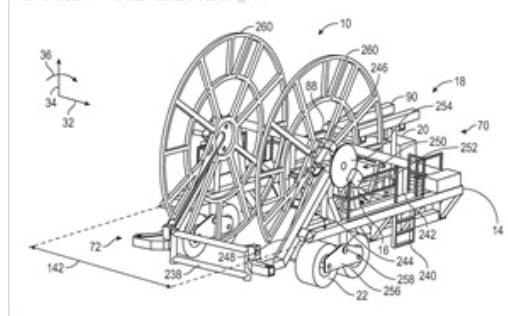
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CPC: B60P1/025 B60P3/035 B62D63/061 B65H49/32 B65H59/06

B65H67/02 B65H2701/33 B60P1/162 B65H75/32

US: 1/1 242/562

PatBase - US2018186269_AA



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
EA201990872 A1	20190930	EA20190090872	20171009
EP3523233 A1	20190814	EP20170860186	20171009
ID201907538 A	20191018	ID2019PID02925	20171009
IN201917017436 A	20190712	IN201917017436	20190501
MX2019004060 A1	20190919	MX20190004060	20171009
SG11201902985W A1	20190530	SG20191102985	20171009
US2018186269 AA	20180705	US20180908816	20180301
US2019232853 AA	20190801	US20170340339	20171009
WO18071336 A1	20180419	WO2017US55772	20171009

Priority:

US20160406231P 20161010 US20170340339 20171009 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 ; ALEXANDER RYAN BARNETT ; MATTHEW ALLEN HEGLER

Agent(s): SPRUSON AND FERGUSON; SMART AND BIGGAR; FUCHS PATENTANWALTE PARTNERSCHAFT MBB; MAROLITA SETIATI; GREENBERG TRAUIG 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 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

6) Family number: 32287376 (US2005253015A)

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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);

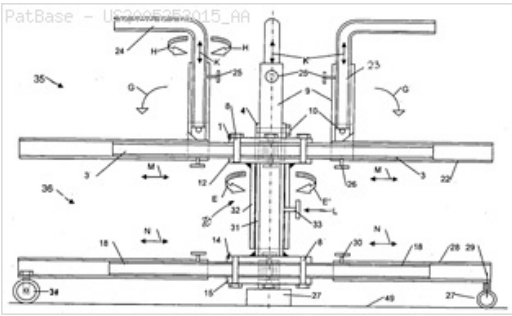
B65H49/00 B65H75/18 (Core/Invention)

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

7) Family number: 12776603 (FR2707221A)

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Title: Vehicle for transporting at least one reel

Abstract: The present invention relates to a vehicle for transporting at least one reel for packaging and storing an elongate flexible element. This transport vehicle (10) includes an axle assembly (11) equipped with means for supporting a reel (13) including two lateral cheeks (38) arranged on either side of a central drum (36) equipped with an axial bore (37). The transport vehicle further includes handling means (12) designed to move the reel (13) from a storage position into a transport position in which one of its lateral cheeks is located flat on the axle assembly, then into a position of use in which the reel is vertical, and to hold it in this position in order to allow the said elongate flexible element to be unwound. The vehicle is used in the transportation of large-diameter reels supporting cables or pipes.

Classifications:

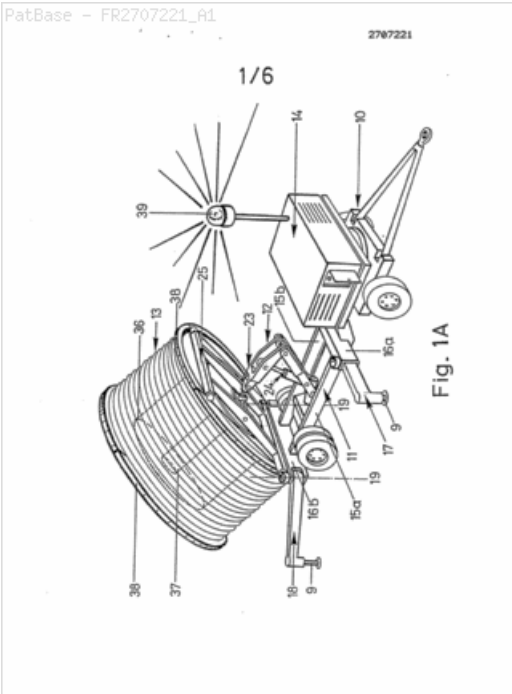
International (IPC 8-9): B60P3/035 (Advanced/Invention);

B60P3/00 (Core/Invention)

International (IPC 1-7): B60P3/035

CPC: B60P3/035

European: B60P3/035



Family:

Publication number	Publication date	Application number	Application date
FR2707221 A1	19950113	FR19930008380	19930705

Priority:

FR19930008380 19930705

Probable Assignee:

EFSA

Assignee(s): (std):

EFSA

Inventor(s): (std):

SERGE CHANEL

Inventor(s):

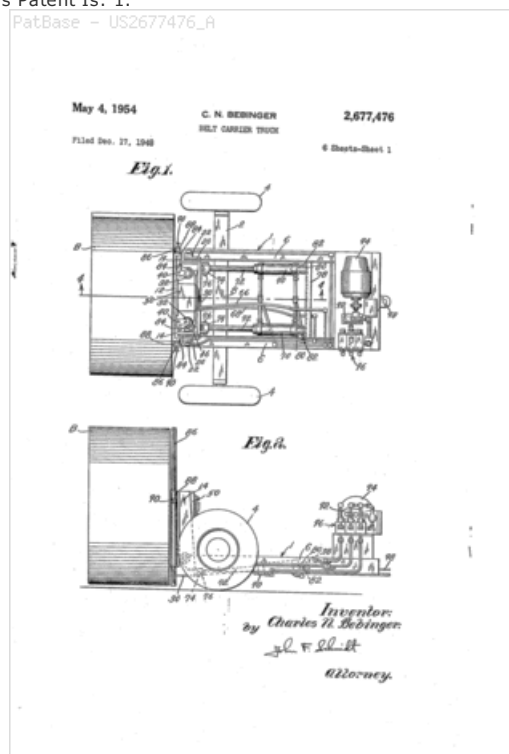
CHANEL SERGE

8) Family number: 21736371 (US2677476A)

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Title: BELT CARRIER TRUCK**Abstract:** (Claim 1) What I claim as new and desire to secure by 'r_ettors 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

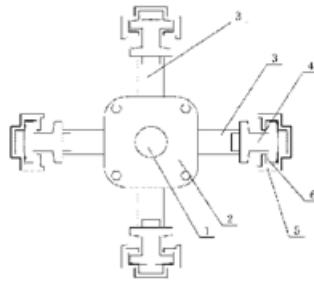
9) Family number: 54761228 (CN203187152U)

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Title: STEEL BELT COIL UNREELING ROLLER

Abstract: The utility model discloses a steel belt coil unreeling roller. The steel belt coil unreeling roller comprises a rotary shaft, wherein a connecting plate is fixed at the end portion of the rotary shaft, at least two connecting rods are fixedly and radially connected on the connecting plate towards the periphery, support blocks with I-shaped cross sections are fixed at the end portions of the connecting rods, auxiliary support blocks with certain height are clamped on the support blocks, and T-shaped grooves are formed in the auxiliary support blocks. A main body of the steel belt coil unreeling roller is formed by fixing the support blocks on the connecting rods, the steel belt coil unreeling roller is simple in structure, easy to achieve, low in cost and good in universality, and meanwhile is provided with the auxiliary support blocks with certain height in a matched mode to adapt to unreeling operation of steel belt coils different in pore diameter.

Classifications:**International (IPC 8-9):** B65H16/04 B65H16/10 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
CN104071611 A	20141001	CN201310101365	20130326
CN104071611 B	20180427	CN201310101365	20130326
CN203187152 U	20130911	CN201320142531U	20130326

Priority:

CN201310101365 20130326 CN201320142531U 20130326

Probable Assignee: JIANGSU CHENGZHONGHE HIGH PREC STEEL PIPES MAKING CO LTD

Assignee(s): (std): JIANGSU CHENGZHONGHE HIGH PREC STEEL PIPES MAKING CO LTD

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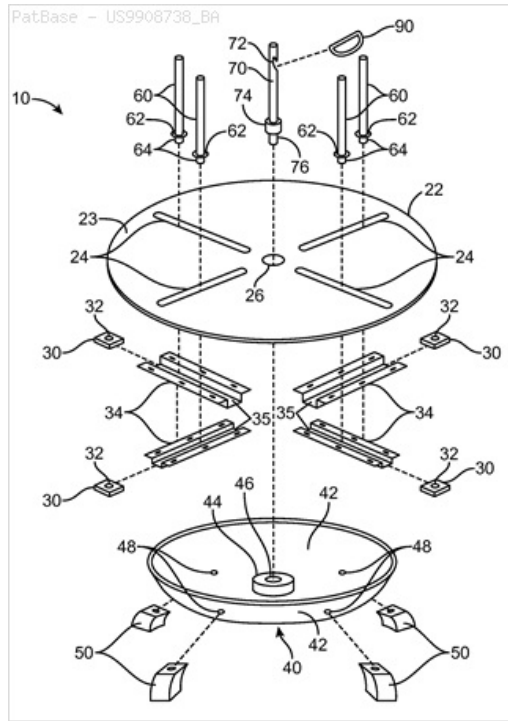
Title: CABLE DISPENSER

Abstract: A cable dispenser which aids in transporting, storing, and deploying coiled or spooled wire is disclosed. The cable dispenser includes a base with a rotating circular top plate which has adjustable guide posts that laterally stabilize a spool of wire. The cable dispenser further includes a center post with a top-mounted handle for carrying or suspending the dispenser from a hook-like appendage. The guide posts may be removed to allow use with spooled wire by placing the spooled wire on the center rod. The base includes a bearing which enables rotation of the top plate and the wire.

Classifications:

International (IPC 8-9): B65H49/30 (Advanced/Invention);
B21C47/34 (Advanced/Non-invention)

CPC: B65H49/305 B65H49/30 B21C47/34 B65H49/28 B65H2701/34
B65H2701/36

**Family:**

Publication number	Publication date	Application number	Application date
US9908738 BA	20180306	US20120530223	20120622

Priority:

US20120530223 20120622

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