

Diego Gonzalez

1) Family number: 51590674 (US2012297969A)

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Title: RETRACTABLE ROTARY TURRET

Abstract: The technology can include a retractable rotary turret system. The system includes a base comprising two support arms. The system further includes a turret platform that is a truncated sphere having a substantially flat side and a substantially spherical side. The turret platform includes a turret support ring rotary coupled to the two support arms and a turret device isolatively coupled to the turret support ring. The turret platform is rotatable along a first dimension for deployment of the spherical side and is rotatable along the first dimension for deployment of the flat side.

Classifications:

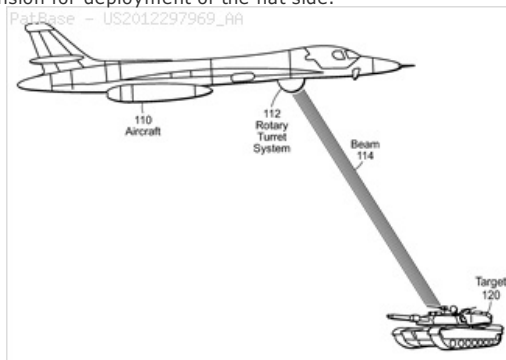
International (IPC 8-9): F41A23/20 F41A23/24 F41G3/00 F41H13/00 G01C3/08 G01J1/20 G02B G02B23/00 G02B7/16 H01L27/00 H01L31/00 (Advanced/Invention);

G02B (Subclass/Invention)

CPC: F41A23/20 F41H13/005

European: F41A23/20 F41H13/00F2

US: 244/130 250/203.2 250/208.1 250/234 250/330 356/4.01 359/399 89/1.11 89/37.01 89/37.21 89/41.01



Family:

Publication number	Publication date	Application number	Application date
DE602012014283 D1	20160324	DE201260014283T	20120326
EP2527779 A2	20121128	EP20120161351	20120326
EP2527779 A3	20130814	EP20120161351	20120326
EP2527779 B1	20160203	EP20120161351	20120326
IL218819 A0	20120628	IL20120218819	20120325
IL218819 A1	20160731	IL20120218819	20120325
US2012297969 AA	20121129	US20110115350	20110525
US8635938 BB	20140128	US20110115350	20110525

Priority:

US20110115350 20110525 EP20120161351 20120326

Probable Assignee: RAYTHEON CO

Assignee(s): (std): GRIFFIN ERIC J ; ISKER JOHN D ; KING WILLIAM B ; MCKEARN CHAUNCHY F ; RAYTHEON CO

Assignee(s): RAYTHEON COMPANY ; RAYTHEON CO WALTHAM

Inventor(s): (std): KING WILLIAM B ; GRIFFIN ERIC J ; ISKER JOHN D ; MCKEARN CHAUNCHY F

Inventor(s): ISKER JOHN D SUN CITY ; GRIFFIN ERIC J RANCHO PALOS VERDES ; MCKEARN CHAUNCHY F THOUSAND OAKS ; KING WILLIAM B RANCHO PALOS VERDES

Agent(s): VENNER SHIPLEY LLP; MURPHY COLM DAMIEN; REINHOLD COHN AND PARTNERS; JOSEPH M; PIERCE ATWOOD 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

2) Family number: 51591496 (US2012298839A)

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Title: RAPIDLY DEPLOYABLE HIGH POWER LASER BEAM DELIVERY SYSTEM

Abstract: The technology can include a high power laser beam delivery system. The system includes a rotary turret platform rotatable along multiple axes for aiming of a high power laser beam. The system further includes a turret payload device coupled to the rotary turret platform that is a truncated sphere and configured to rapidly deploy from a vehicle and stow within the vehicle. The system further includes at least two conformal windows in a spherical side of the turret payload. The system further includes an off-axis telescope coupled to the turret payload, having an articulated secondary mirror for correcting optical aberrations, and configured to reflect the high power laser beam to a target through the first of the at least two conformal windows. The system further includes an illuminator beam device coupled to the turret payload and configured to detect atmospheric disturbance between the system and the target by actively illuminating the target to generate a return aberrated wavefront through the first of the at least two conformal windows. The system further includes a coarse tracker coupled to the turret payload, positioned parallel to and on an axis of revolution of the off-axis telescope, and configured to detect, acquire, and track the target through the second of the at least two conformal windows.

Classifications:

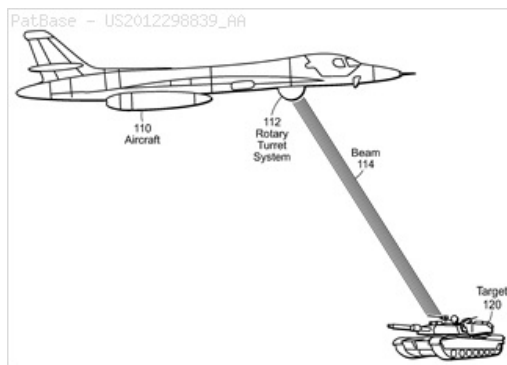
International (IPC 8-9): F41A23/20 F41G3/00 F41H13/00 G01C3/08 G01J1/20 G02B (Advanced/Invention);

G02B (Subclass/Invention)

CPC: F41A23/20 F41H13/005

European: F41A23/20 F41H13/00F2

US: 250/201.6 250/203.1 356/3.01 356/3.09 356/3.12 356/625 356/9 89/41.01



Family:

Publication number	Publication date	Application number	Application date
DE602012004714 D1	20150226	DE201260004714T	20120328
EP2527780 A2	20121128	EP20120161786	20120328
EP2527780 A3	20131211	EP20120161786	20120328
EP2527780 B1	20150107	EP20120161786	20120328
IL218910 A0	20120628	IL20120218910	20120328
IL218910 A1	20170228	IL20120218910	20120328
US2012298839 AA	20121129	US20110115366	20110525
US8654314 BB	20140218	US20110115366	20110525

Priority:

US20110115366 20110525 EP20120161786 20120328

Probable Assignee: RAYTHEON CO

Assignee(s): (std): GRIFFIN ERIC J ; ISKER JOHN D ; KING WILLIAM B ; MCKEARN CHAUNCHY F ; RAYTHEON CO

Assignee(s): RAYTHEON CO WALTHAM ; RAYTHEON COMPANY

Inventor(s): (std): KING WILLIAM B ; GRIFFIN ERIC J ; ISKER JOHN D ; MCKEARN CHAUNCHY F

Inventor(s): MCKEARN CHAUNCHY F THOUSAND OAKS ; GRIFFIN ERIC J RANCHOS PALOS VERDES ; ISKER JOHN D SUN CITY ; KING WILLIAM B RANCHO PALOS VERDES

Agent(s): VENNER SHIPLEY LLP; MURPHY COLM DAMIEN; REINHOLD COHN AND PARTNERS; JOSEPH M; PIERCE ATWOOD 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: 23818234 (US2922259A)

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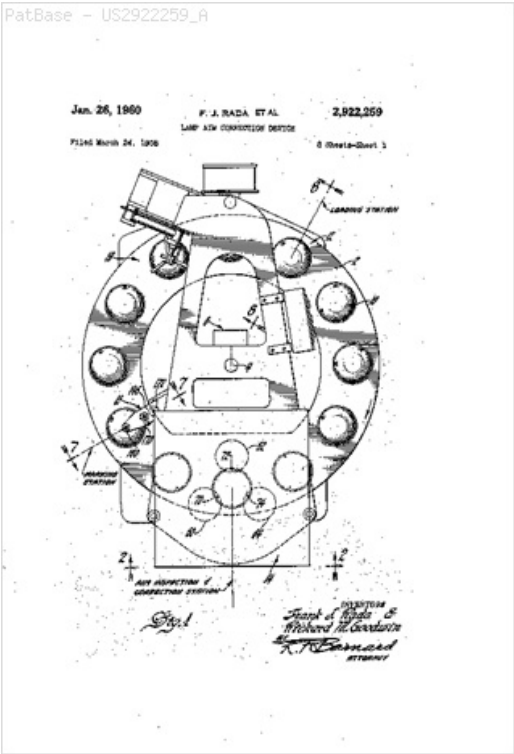
Title: LAMP AIM CORRECTION DEVICE

Abstract: 835,361. Setting projection lamps. GENERAL MOTORS CORPORATION. March 6, 1958, No. 7225/58. Classes 39(2) and 75(4) [Also in Group XXIII] A projection lamp, such as a sealed beam lamp for a vehicle headlight, is provided with a surface for setting against a corresponding surface of its housing so that its beam is directed at the desired angular inclination; this is effected by temporarily mounting the lamp in a support and aiming its beam appropriately to a fixed reference plane, and then with the lamp in this position forming, as on its rim, a surface having a predetermined angular relation to the reference plane. The operations may be carried out at successive stations on a turret machine 10, Fig. 1. At the first station the operator inserts a sealed beam lamp 64 in a frictional gimbal ring mounting 68, 72; at station 22 the beam from the lamp is aimed on a screen and scanned by photo electric cells which control servomotors 124, 140, Fig. 2, which act upon the frictional gimbal rings 68, 72 to adjust the beam in elevation and azimuth so that it has the required inclination to the reference plane of the screen 104; at station 24 a gauging is effected by the apparatus shown in Fig. 4 to determine the amount of feed that is required for a grinding of reference abutments 84 on the lamp rim and to check that these are present and all of uniform height; at station 26 the grinding is effected with the feed limited by a stop 380, Fig. 5, adjustably set by the gauging apparatus whereby the reference abutments are ground to give a reference surface such that the lamp when assembled in its housing will give a beam of the required angular direction. At the aiming station the lamp 64 mounted in the gimbals 68, 72 respectively frictionally pivoted at 70/70¹, 74/74¹ and illuminated from a battery 92 has its beam focused by a condensing lens 100 on to a screen 104 having photo-electric cells symmetrically arranged therewith whereby a differential effect arises in each of two detectors 116, 132 if the beam image is not centralized for elevation and azimuth, the detectors then causing servomotors 124, 140 to act through clutched-in shafts 94, 96 to position the gimbal rings 68, 72 so that the beam has the correct angular setting relatively to the screen. These actions are under the control of a motordriven sequence timer 28, Fig. 1, which applies potential to contacts 30, 32, 34...48 at proper times in the turret operation whereby are operated the turret drive and the servomotors, clutches, and the relays for controlling the gauging, grinding feed, and rejection of lamps defective in beam positioning or with constructional defects. If a lamp cannot be positioned to set its beam correctly on the screen 104 then a detector 216 energized either from the elevation or the azimuth detector 116, 132 will energize a memory device 228 which will prevent the subsequent gauging operation being carried out on this lamp. In the setting of the beam the elevation and azimuth servomotors initially set the gimbal rings into their backward limit and the servomotors thereafter move the gimbal rings forward until the detectors 116, 132 give a null indication which occurs when the beam is correctly positioned relatively to the screen. When the lamp bulb reaches the gauging station, and providing it is not a defective one in which case the memory device 228 will have applied potential to the terminals 230 to interrupt the device 240 which will then prevent hydraulic actuator 236 being effective, the hydraulic actuator 236 will depress a reference head 232 against a fixed stop 246 while a plunger 250 pressing against the lamp rim will be moved relatively upward to modify the position of a contact point 260 on a resistance 258 and actuate a memory device 268 such as of the self-balancing potentiometer type. Subsidiary plungers 300 sliding in a gauging head 248 which bears on to the lamp rim verify the presence of the reference abutments 84 on the lamp rim; if any one abutment is absent or broken one or more of the multiple contacts 310 will remain closed and prevent a memory latch-up relay 324 being energized to affect an interruptor 396 for the control of the grinding feed mechanism 376. At the grinding station, the servomotor 396 is actuated to an extent determined by the extent to which the memory device 268 has been set and so sets, through a wedge adjustment 382 the position of a stop 380 to set the limit of the grinding feed. The grinding is effected by an inverted cup wheel 366 the driving shaft 372 of which is set at a known angle with respect to the aiming screen and therefore grinds the abutment surfaces 84 to give a known angle with the beam. Specification 804,739 is referred to.

Classifications:

International (IPC 8-9): B23Q15/00 B24B13/015 H01K3/00
H01K9/08 (Advanced/Invention);
B23Q15/00 B24B13/00 H01K3/00 H01K9/00 (Core/Invention)

International (IPC 1-7): B24B13/00 H01K1/36 H01K3/10 H01K3/26
CPC: B23Q15/00 B24B13/015 H01K3/00 H01K9/08
European: B23Q15/00 B24B13/015 H01K3/00 H01K9/08
US: 451/1 451/292 451/42



Family:

Publication number	Publication date	Application number	Application date
DE1122465 B	19620125	DE1959G026667	19590320
DE1870874 U	19630425	DE1959G019700U	19590320
FR1229882 A	19600912	FR19590790156	19590323
GB835361 A	19600518	GB19580007225	19580306
GB875024 A	19610816	GB19590000483	19590106
NL125809 C	00000000		00000000
NL236171 A	00000000		00000000
US2922259 A	19600126	US19580723504	19580324

Priority:

US19580723504 19580324

Probable Assignee: GEN MOTORS CORP

Assignee(s): (std): GEN MOTORS CORP

Assignee(s): GENERAL MOTORS CORP

Inventor(s): (std): WANTTAJA GLENN EWALD ; TODD HAROLD EDGAR ; RADA FRANK JOSEPH ; RADA FRANK J ; MEYER SYLVANUS ; MEEK FRANKLIN HARLEY ; GOODWIN RICHARD MARCUS ; GOODWIN RICHARD M ; GAITHER RAYMOND ALFRED

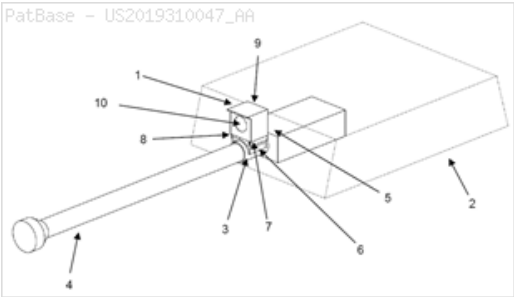
4) Family number: 67933543 (US2019310047A) © PatBase

Title: INTERFACE SUPPORT FOR AN AIMING SYSTEM

Abstract: A turret intended to be mounted on an armored vehicle includes: a barrel system having a barrel liner and a protective tube against impacts and vibrations connected to the barrel liner at a junction with the turret; and a rigid and interchangeable interface system to attach to the turret a piece of functional equipment including at least an aiming system. The interface system is fastened on the protective tube against the impacts and vibrations such that the interface system is placed in a plane perpendicular to a longitudinal axis of the barrel system. The interface system includes, in the following predefined order: an essentially semi-circular or semi-cylindrical enclosure serving as a support surrounding the protective tube against the impacts and vibrations; a base attached to the enclosure; a plate over the base; and a support

Classifications:

International (IPC 8-9): F41A23/24 F41G11/00 (Advanced/Invention)
CPC: F41A23/24 F41G11/004



Family:

Publication number	Publication date	Application number	Application date
BE1025833 AB	20190718	BE20170005417	20170609
BE1025833 BB	20191023	BE20170005417	20170609
CA3027609 AA	20181213	CA20173027609	20170609

CO20190000042 A2	20190118	CO20190000042	20190104
EP3312544 A1	20180425	EP20160195001	20161021
EP3469297 A1	20190417	EP20170730745	20170609
ID201904446 A	20190628	ID2019PID00047	20170609
SG11201810565V A1	20181228	SG20181110565	20170609
US2019310047 AA	20191010	US20170308829	20170609
WO17216069 A1	20171221	WO2017EP64163	20170609

Priority:

US20160349166P 20160613 EP20160195001 20161021 WO2017EP64163 20170609
US20170308829 20170609

Probable Assignee: CMI DEFENCE S A

Assignee(s): (std): CMI DEFENCE S A ; CMI DEFENCE SA

Assignee(s): DELVAUX PHILIPPE ; NUYTS CAMILLE ; VAN DEN BROUCKE GEOFFROY

Inventor(s): (std): NUYTS CAMILLE ; VAN DEN BROUCKE GEOFFROY ; DELVAUX PHILIPPE

Agent(s): SMART AND BIGGAR; PRONOVEM; MAULITTA PRAMULASARI; DE MANDATAIRES PRONOVEM GRP

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

5) Family number: 67838271 (US2019310046A)

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Title: MODULAR TURRET

Abstract: A modular turret for an armored vehicle includes: an invariable and unique basic structural unit configured to be interchangeable, called a standard shell, equipped with interface means; and a plurality of interchangeable and removable functional modules and/or systems securable to the standard shell by specific fastening means distinctive from a connection of each functional module to the standard shell. The interface means allow an assembly of a set of different modules and/or systems of a same functional type on the standard shell at an interfacing zone on the latter. The standard shell includes an assembly of a plurality of plates with different shapes and sizes giving the standard shell a geometric shape with fixed dimensions. The plates have orifices and/or connectors for fastening the interchangeable and removable functional modules and/or systems. The plurality of plates includes a base metal sheet including a base of the standard shell.

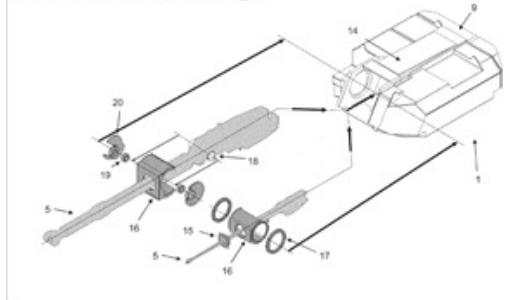
Classifications:

International (ipc 8-9): F41A F41A23/24 F41H F41H5/20 F41H7/04 (Advanced/Invention); F41H (Subclass/Invention)

International (ipc 1-7): F41A23/24 F41H5/20 F41H7/04

CPC: F41A23/24 F41H5/20 F41H7/044 F41H7/048

PatBase - US2019310046_AA



Family:

Publication number	Publication date	Application number	Application date
BE1025823 AB	20190716	BE20170005406	20170607
BE1025823 BB	20190919	BE20170005406	20170607
BR112018075416 A2	20190312	BR20181175416	20170607
CA3023403 AA	20181106	CA20173023403	20170607
CN109154487 A	20190104	CN201780031152	20170607
EP3306259 A1	20180411	EP20160193124	20161010
EP3469299 A1	20190417	EP20170727271	20170607
ID201905559 A	20190802	ID2019PID00002	20170607
IL262748 A0	20181231	IL20170262748	20170607
KR20190022571 A	20190306	KR20187037945	20170607
SG11201810558V A1	20181228	SG20181110558	20170607
US2019310046 AA	20191010	US20170307945	20170607
WO17211911 A1	20171214	WO2017EP63876	20170607
ZA201807302 A	20190828	ZA20180007302	20181031

Priority:

US20160348177P 20160610 EP20160193124 20161010 WO2017EP63876 20170607
US20170307945 20170607

Probable Assignee: CMI DEFENCE S A

Assignee(s): (std): CMI DEFENCE S A ; CMI DEFENCE SA ; CORONA FABIAN ; DA COSTA GARCIA ALBERTO ; DELVAUX PHILIPPE ; DUMONT VINCENT ; ORBAN HENRI

Inventor(s): (std): CORONA FABIAN ; DUMONT VINCENT ; DA COSTA GARCIA ALBERTO ; ORBAN HENRI ; DELVAUX PHILIPPE ; FABIAN CORONA ; VINCENT DUMONT ; ALBERTO DA COSTA GARCIA ; HENRI ORBAN ; PHILIPPE DELVAUX

Agent(s): SMART AND BIGGAR; PRONOVEM; MAULITTA PRAMULASARI; DE MANDATAIRES PRONOVEM GRP

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 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

Title: HIGH ANGLE FIRE GUN, IN PARTICULAR GRENADE LAUNCHING WEAPON

Abstract: A high angle fire gun (1) has at least one adjustable, swivelling tube (3), a tube adjusting mechanism and an adjusting mechanism pointing device (7) for pointing the tubes (3). In order to ensure a wide pointing range with a device which is easy to handle, the pointing device (7) has an independent pointer (8), preferably arranged apart from the adjusting mechanism, for actuating the adjusting mechanism so as to laterally and vertically point the tubes (3) by rotating each tube axis (A) along a conical surface around a vertical axis (H) and/or by swivelling each tube axis (A) along an axial plane through said vertical axis (H).

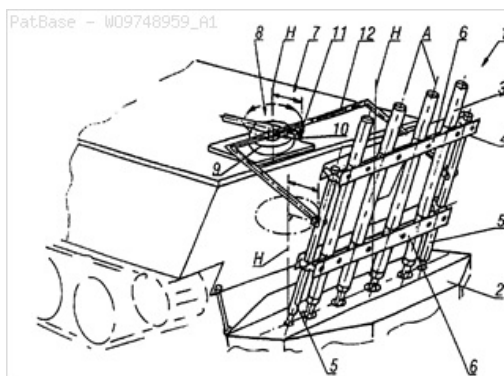
Classifications:

International (IPC 8-9): F41A23/34 F41F1/06 (Advanced/Invention); F41A23/00 F41F1/00 (Core/Invention)

International (IPC 1-7): F41A23/34 F41F1/06 F41F1/6

CPC: F41A23/34 F41F1/06

European: F41A23/34 F41F1/06



Family:

Publication number	Publication date	Application number	Application date
AT109396 A	20010615	AT19960001093	19960620
AT245276 E	20030815	AT19970926906T	19970616
AT408690 B	20020225	AT19960001093	19960620
CA2258737 AA	19981218	CA19972258737	19970616
CA2258737 C	20050208	CA19972258737	19970616
DE59710443 D1	20030821	DE19975010443	19970616
EP0906553 A1	19990407	EP19970926906	19970616
EP0906553 B1	20030716	EP19970926906	19970616
ES2203810 T3	20040416	ES19970926906T	19970616
WO9748959 A1	19971224	WO1997AT00130	19970616

Priority:

AT19960001093 19960620 EP19970926906 19970616 WO1997AT00130 19970616

Probable Assignee: SCHABELREITER JOHANN

Assignee(s): (std): DYNAMIT NOBEL GRAZ GES MBH ; WINTER UDO ING MAG ; SCHABELREITER JOHANN DIPL ING ; WINTER UDO ; SCHABELREITER JOHANN ; MARTIN WERNER ; DYNAMIT NOBEL GRAZ GESMBH ; DYNAMIT NOBEL GRAZ GMBH

Assignee(s): SCHABELREITER JOHANN DIPL ING DR ; DYNAMIT NOBEL GRAZ GESELLSCHAFT M B H ; DYNAMIT NOBEL GRAZ GES M B H ; DYNAMIT NOBEL GRAZ GES MB H

Inventor(s): (std): MARTIN WERNER DIPL ING ; SCHABELREITER JOHANN DIPL ING ; WINTER UDO ING MAG ; WINTER UDO ; MARTIN WERNER ; SCHABELREITER JOHANN ; MARTIN WERNER DIPLING ; SCHABELREITER JOHANN DIPLING DR

Inventor(s): SCHABELREITER JOHANN DIPL ING DR

Agent(s): FETHERSTONHAUGH AND CO

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

Title: Automated self-powered material handling truck

Abstract: An automated handling system intended notably for storehouses in which miscellaneous articles are kept, for allowing either the restocking of the storehouse, or the regrouping of articles picked up in the storehouse for constituting lots or articles which correspond to a customer's order. The system comprises a central control and management computer and one or a plurality of self-powered trucks adapted to handle stock bins and order receiving bins in the storehouse, and to pick up articles from the bins to constitute lots of articles and gather the various customers' orders. Each self-powered truck comprises a motorized chassis adapted to travel along fixed lanes of the storehouse along storage racks, an inboard computer in data relationship with the central computer, an inboard store structure for receiving the articles concerning the orders thus gathered, a bin receiving platform, an extractor for drawing the bins out from the racks, an optical system for recentering the platform in front of the bins contained in the racks, and grippers adapted to pick up one of the articles contained in the stock bins.

Classifications:

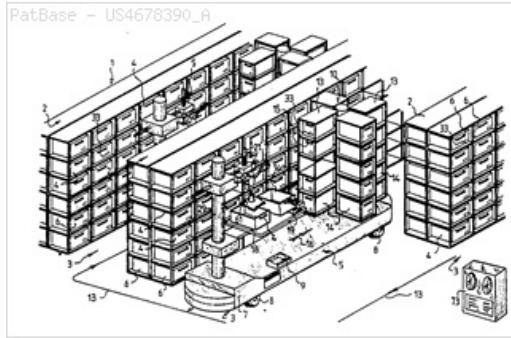
International (IPC 8-9): B65G1/137 (Advanced/Invention)

International (IPC 1-7): B65G1/06 B65G1/137

CPC: B65G1/1375 B65G2209/06

European: B65G1/137D2 L65G209/06

US: 294/4 294/8 294/86.4 414/280 414/282 414/286 414/331.11 414/416.03 414/416.08 414/541 414/626 414/661 414/785 53/551 53/552

**Family:**

Publication number	Publication date	Application number	Application date
AT49736 E	19900215	AT19860440017T	19860304
DE0235488 T1	19880721	DE19860440017T	19860304
DE3668439 D1	19900301	DE19863668439	19860304
EP0235488 A1	19870909	EP19860440017	19860304
EP0235488 B1	19900124	EP19860440017	19860304
US4678390 A	19870707	US19860844455	19860326

Priority:

EP19860440017 19860304 US19860844455 19860326 US19860652348 19860919

Probable Assignee: REDOUTE CATALOGUE SA

Assignee(s): (std): REDOUTE CATALOGUE SA

Assignee(s): REDOUTE CATALOGUE SOCIETE ANONYME ; SOCIETE ANONYME REDOUTE CATALOGUE ; REDOUTE CATALOGUE ; REDOUTE CATALOGUE S A ; REDOUTE CATALOGUE S A ROUBAIX NORD FR

Inventor(s): (std): BONNETON MARC ; JANVIER DOMINIQUE

Inventor(s): JANVIER DOMINIQUE F 59000 LILLE NORD FR ; BONNETON MARC F 49200 TOURCOING NORD FR

Designated states: AT BE CH DE FR GB IT LI LU NL SE

8) Family number: 17961983 (GB1522042A)

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Title: INSTALLATIONS FOR LAUNCHING GUIDED MISSILES

Abstract: 1522042 Installation for launching a missile CREUSOT-LOIRE 19 Jan 1976 [18 Feb 1975] 1997/76 Heading F3C An installation for launching a missile from an armoured vehicle 1 having an enclosure 3 which can be maintained at a pressure higher than that outside, comprises a housing 6, launching ramps 7 which are carried by a respective support 71, means for moving the supports 71 between a firing position outside the housing 6 and a retracted position inside the housing, each housing having an opening 61 for the respective support to pass through and a hatch 73 for closing this opening and having an opening 62 for loading the respective launching ramps 7 with missiles and a hatch 63 for closing this opening. The ramps 7 are adjustable in elevation by a respective piston and cylinder 72 and the respective support 71 is rotatable via a ring 9, a toothed wheel 91 and a motor (not shown) having a gear meshing with the wheel 91. The ring 9 is carried by an extension 810 of a piston rod 81 which is rotatably mounted in a cylinder 82. The piston rod 81 is hollow and contains a piston having a rod 83. The doubleacting piston and cylinder assembly provides the means for moving the supports 71 between firing and retracted positions. The enclosure 3 has a magazine 33, an observation turret 4 and a periscope 5 therein.

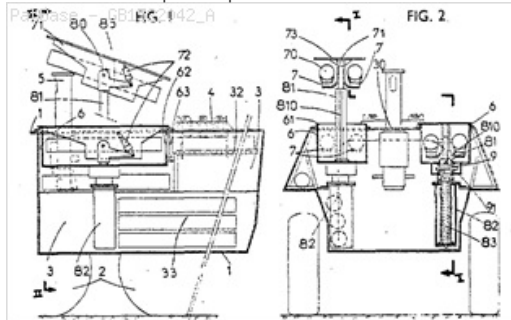
Classifications:

International (IPC 8-9): F41A23/20 F41A23/42 F41A9/45 F41F1/00 F41F3/00 (Advanced/Invention); F41A23/00 F41A9/00 (Core/Invention)

International (IPC 1-7): F41F23/02 F41F23/06 F41F3/00 F41H7/00 F41H7/12

CPC: F41A9/45 F41A23/20 F41A23/42

European: F41A23/20 F41A23/42 F41A9/45

**Family:**

Publication number	Publication date	Application number	Application date
BE838676 A	19760818	BE19760164409	19760218
CA1048830 A1	19790220	CA19760245895	19760217
DE7602187 U1	19760722	DE19760002187U	19760127
ES444679 A1	19770516	ES19760444679	19760128
FR2301797 A1	19760917	FR19750004981	19750218
FR2301797 B1	19830624	FR19750004981	19750218
GB1522042 A	19780823	GB19760001997	19760119
IT1057128 A	19820310	IT19760067258	19760204
NL7601112 A	19760820	NL19760001112	19760204

Priority:

FR19750004981 19750218

Probable Assignee: CREUSOT LOIRE

Assignee(s): (std): CREUSOT L ; CREUSOT LOIRE ; CREUSOT LOIRE SOC ANONYME TE PARIJS

Assignee(s): CREUSOT LOIRE SOCIETE ANONYME TE PARIJS ; CREUSOT LOIRE PARIS ; ALLIOT PAUL

Inventor(s): (std): ALLIOT PAUL

9) Family number: 8654149 (US4361071A)

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Title: Fire control mechanism

Abstract: A TOW (Tube-launched, Optically tracked, Wire-guided) missile system is mounted on a combat vehicle turret for greater combat effectiveness. Before the missile is launched, the gunner keeps the target in his sights in azimuth by powering the turret through a movable sight to which the turret is slaved by a lock mechanism. Missile launch energizes certain electrical devices which unlock the mechanism to make sight movement independent of the turret, open the turret drive motor power switch, and set a brake on the motor which locks the turret against movement to provide a stable platform for tracking the target during missile flight. After a preset time to allow for on-target impact, the devices are automatically reset and the turret drive is again slaved to the sight in azimuth.

Classifications:

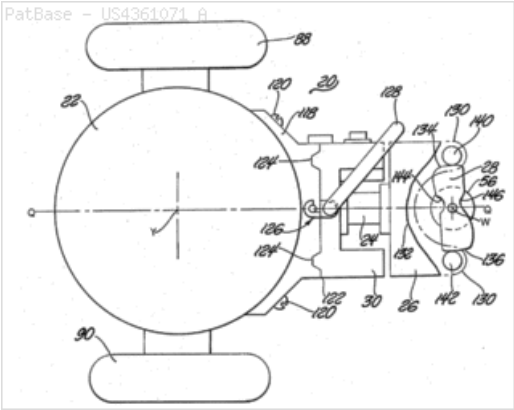
International (IPC 8-9): F41A23/42 F41G7/32 (Advanced/Invention);
F41A23/00 F41G7/20 (Core/Invention)

International (IPC 1-7): F41F3/04

CPC: F41A23/42 F41G7/32

European: F41A23/42 F41G7/32

US: 244/3.12 89/1.815



Family:

Publication number	Publication date	Application number	Application date
US4361071 A	19821130	US19800189980	19800922

Priority:

US19800189980 19800922

Probable Assignee: CHRYSLER CORP

Assignee(s): (std): US ARMY

Assignee(s): THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE ARMY ; CHRYSLER CORP ; SECRETARY OF ARMY AS US GOV ; SECRETARY OF ARMY US ; THE UNITED STATES OF AMERICA AS REPRESENTED BY THE

Inventor(s): (std): CARLSON DONALD J ; NEUMEYER MARTIN J ; O ROURKE GLENN ; WAID ROGER K

10) Family number: 4955274 (US5095803A)

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Title: ARMORED TURRET HAVING AN AUXILIARY WEAPON

Abstract: An armored turret for a light-armored vehicle is disclosed having an auxiliary weapon mounted on the side of the turret by a hollow support arm. A control mechanism for operating the gun extends from the interior of the turret through the hollow arm and is connected to the auxiliary weapon to enable the operator to operate the auxiliary weapon from inside the turret. The auxiliary weapon is pivotally attached to the auxiliary weapon mount to enable it to be elevated about an elevation axis extending substantially parallel to the elevational axis of the primary weapon. A mechanical linkage device interconnects a shaft, which is rotated by the elevation changes of the primary weapon and the auxiliary weapon such that any elevational changes in the primary weapon are imparted to the auxiliary weapon. The linkage is mounted externally of the turret.

Classifications:

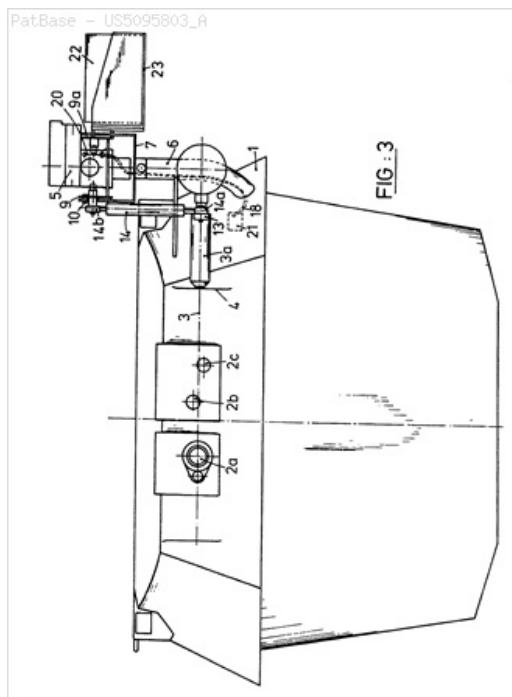
International (IPC 8-9): F41A23/24 (Advanced/Invention)

International (IPC 1-7): F41A23/24 F41A27/18 F41G5/24 F41H5/20
F41H7/02

CPC: F41A23/24

European: F41A23/24

US: 89/37.07 89/40.03 89/400.3 89/41.16



Family:

Publication number	Publication date	Application number	Application date
AT98365 E	19931215	AT19900403777T	19901227
BRPI9006613 A	19911001	BR1990PI06613	19901227
DE69005089 D1	19940120	DE19906005089	19901227
DE69005089 T2	19940421	DE19906005089T	19901227
DK0435771 T3	19940131	DK19900403777T	19901227
EP0435771 A1	19910703	EP19900403777	19901227
EP0435771 B1	19931208	EP19900403777	19901227
ES2047292 T3	19940216	ES19900403777T	19901227
FR2656683 A1	19910705	FR19890017297	19891228
FR2656683 B1	19920327	FR19890017297	19891228
US5095803 A	19920317	US19900634523	19901227

Priority:

FR19890017297 19891228 EP19900403777 19901227

Probable Assignee: ANONYME HISPANO SUIZA SOC

Assignee(s): (std): HISPANO SUIZA SA

Assignee(s): HISPANO SUIZA SAINT CLOUD FR ; HISPANO SUIZA SOCIETE ANONYME ; SOCIETE ANONYME DITE HISPANO SUIZA ; HISPANO SUIZA SOCIETE ANONYME DITE ; ANONYME HISPANO SUIZA SOC ; HISPANO SUIZA

Inventor(s): (std): ALLAIS JEAN PHILIPPE P B ; BERNARD ; CALVAIRE HAMEAU DE FREVILLE ; DANIEL ; DIDIER LENORMAND ; GUILLERMOND ALAIN R ; GUILLERMOND ALAIN ROBERT ; ALAIN GUILLERMOND ; JACQUES ; JEAN PHILIPPE ALLAIS ; LENORMAND DIDIER J D ; PATRICE ; ROBERT ; LENORMAND DIDIER JACQUES DANIE ; GUILLERMOND ALLAIN ROBERT ; ALLAIS JEAN PHILIPPE PATRICE B

Inventor(s): LENORMAND DIDIER JACQUES DANIEL ; ALLAIS JEAN PHILIPPE PATRICE BERNARD ; LENORMAND DIDIER JACQUES DANIEL F 76600 LE ; LENORMAND DIDIER JACQUES DANIEL F 76600 LE HAVRE F ; JEAN PHILIPPE PATRICE BERNARD ALLAIS ; ALAIN ROBERT GUILLERMOND ; GUILLERMOND ALLAIN ROBERT F 76133 EPOUVILLE FR ; DIDIER JACQUES DANIEL LENORMAND ; ALLAIS JEAN PHILIPPE PATRICE BERNARD FONTAINE ; ALLAIS JEAN PHILIPPE PATRICE BERNARD FONTAINE LA M

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

11) Family number: 229592 (US3333507A)

© PatBase

Title: Armored vehicles including a turret fitted with an automatic gun fed from cartridge belt sections packed in boxes

Abstract: ABSTRACT OF THE DISCLOSURE

The armored vehicle comprises a turret for an automatic gun fed from cartridge belts previously housed in ammunition boxes intended to be stored in the vehicle. A guiding support rotating together with the turret receives one ammunition box in firing position for directly feeding the cartridge belt to the gun and one ammunition box in waiting position, said guiding support further comprising a lower chamber for evacuation of an empty

Classifications:

International (IPC 8-9): F41A9/80 (Advanced/Invention);

F41A9/00 (Core/Invention)

International (IPC 1-7): F41C25/02 F41D9/00 F41F21/14 F41F9/00

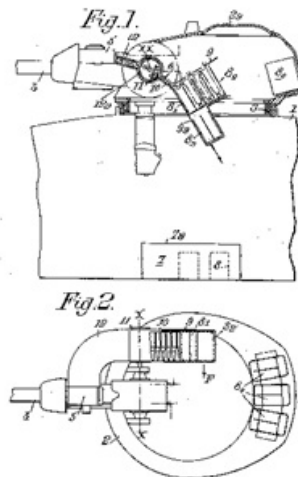
F41H7/12 F42B

CPC: F41A9/80

European: F41A9/80

US: 89/34 89/36.13 89/40.03

Aug. 1, 1967 **R. DE MEISS** **3,333,507**
 ARMED VEHICLE INCLUDING A TURRET FITTED
 WITH AN AUTOMATIC SWEEP FOR COAST GUARD
 TURTLE DETECTION PURPOSES IN BOATS
 Filed Oct. 20, 1966 2 Sheets-Sheet 1

**Family:**

Publication number	Publication date	Application number	Application date
CH428499 A	19670115	CH19650014059	19651012
DE1453812 A1	19690206	DE19651453812	19651022
FR1453083 A	19660415	FR19650037496	19651105
GB1061138 A	19670308	GB19650042988	19651011
LU47304 A	19660509	LU19640047304	19641107
US3333507 A	19670801	US19650505155	19651025

Priority:

LU19640047304 19641107 FR19650037496 19651105

Probable Assignee: BREVETS AERO MECANIQUES

Assignee(s): (std): BREV AERO MECANIQUES S A ; BREVETS AERO MECANIQUES

Assignee(s): BREVETS AERO MECANIQUES S A ; BREVETS AERO MECANIQUES SA ; BREVETS AERO MECANIQUES S A

Inventor(s): (std): DE MEISS RENE

Inventor(s): MEISS RENE DE

12) Family number: 34966267 (US2008034954A)

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Title: STABILIZING MOUNT FOR HANDS-ON AND REMOTE OPERATION OF CAMERAS, SENSORS, COMPUTER INTELLIGENT DEVICES AND WEAPONS

Abstract: A stabilizing mount system for cameras, sensors and weapons. This invention stabilizes payloads such as cameras sensors and weapons on moving vehicles such as HMMWV's, (military Humvees) off-road vehicles, boats aircraft and unmanned vehicles. The stabilizing mount system allows hands-on control of the payload device such as the camera or unmanned vehicle while the stabilization is active. This includes allowing a gunner of a crew served weapon to free-gun or have hands-on control to operate the weapon while the weapon is being actively stabilized. The invention has various modes including target lock. Cameras and sensors are also stabilized and provide a useable output for a remote operator or artificially intelligent computer.

Classifications:

International (IPC 8-9): F41A23/00 F41A27/30 F41G5/06 F41G5/14 G03B17/00 H04N3/16 (Advanced/Invention);

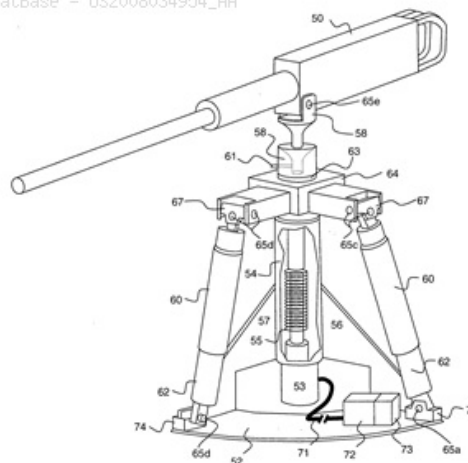
F41A23/00 F41G5/00 G03B17/00 H04N3/16 (Core/Invention)

CPC: F41A23/14 F41A27/26 F41A27/30 F41G3/165 F41G3/225 F41G5/14

European: F41A23/14 F41A27/26 F41A27/30 F41G3/16B F41G3/22B F41G5/14 H04N5/232C H04N5/232S

US: 89/41.02 89/41.020S 89/41.05 89/41.050P

PatBase - US2008034954_AA



Family:

Publication number	Publication date	Application number	Application date
EP1897362 A2	20080312	EP20060849684	20060131
EP1897362 A4	20120104	EP20060849684	20060131
US2008034954 AA	20080214	US20060343711	20060130
WO07086874 A2	20070802	WO2006US03341	20060131
WO07086874 A3	20090305	WO2006US03341	20060131

Priority:

US20050647941P 20050131 US20060343711 20060130 WO2006US03341 20060131

Probable Assignee: GROBER DAVID EHRlich

Assignee(s): (std): GROBER DAVID EHRlich

Inventor(s): (std): GROBER DAVID EHRlich

Agent(s): HALEY STEPHEN ET AL; DAVID EHRlich GROBER

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

13) Family number: 29062488 (EP1333239A2)

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Title: Foldable gun

Abstract: The folding weapon mounting point (1), e.g. for a machine gun, is mounted as a whole, including possibly the sights, on movable rods (3, 6) and a spring support (7) on the side turning point, so that it can be moved between a transporting position and a functional position by means of an annular side turning mounting (2).

Classifications:

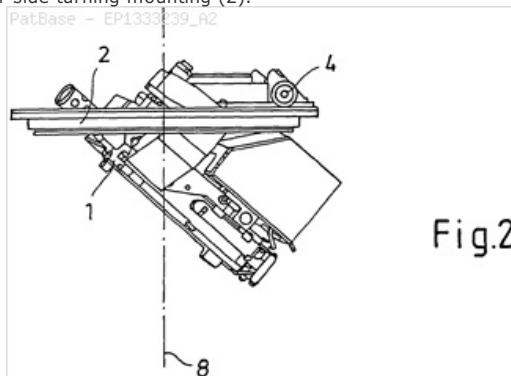
International (IPC 8-9): F41A23/20 (Advanced/Invention);

F41A23/00 (Core/Invention)

International (IPC 1-7): F41A F41A23/00 F41A23/20

CPC: F41A23/20

European: F41A23/20

**Family:**

Publication number	Publication date	Application number	Application date
AT345483 E	20061215	AT20020028826T	20021221
DE10204298 A1	20030814	DE20021004298	20020202
DE50208697 D1	20061228	DE20025008697	20021221
EP1333239 A2	20030806	EP20020028826	20021221
EP1333239 A3	20051019	EP20020028826	20021221
EP1333239 B1	20061115	EP20020028826	20021221
NO20026237 A	20030804	NO20020006237	20021227
NO20026237 A0	20021227	NO20020006237	20021227
NO20026237 L	20030804	NO20020006237	20021227
NO325165 B1	20080211	NO20020006237	20021227

Priority:

DE20021004298 20020202 DE20025008697 20021221

Probable Assignee: RHEINMETALL LANDSYSTEME GMBH

Assignee(s): (std): RHEINMETALL LANDSYSTEME GMBH

Inventor(s): (std): FRITZ MARKUS ; RIEDL JUERGEN

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

14) Family number: 32092378 (EP1557633A1)

© PatBase

Title: Device for mounting and securing a gun station

Abstract: The machine gun installation (W) on a turret ring (2), for an armored fighting vehicle, has the weapon (1) on a swing mounting (6) on trunnions (6a) within side cheeks (4). The cheeks can swing forward on a pivot (5) to reduce the weapon height, when the vehicle is transported by air.

Classifications:

International (IPC 8-9): F41A23/00 F41A23/20 F41A23/24 F41A23/34

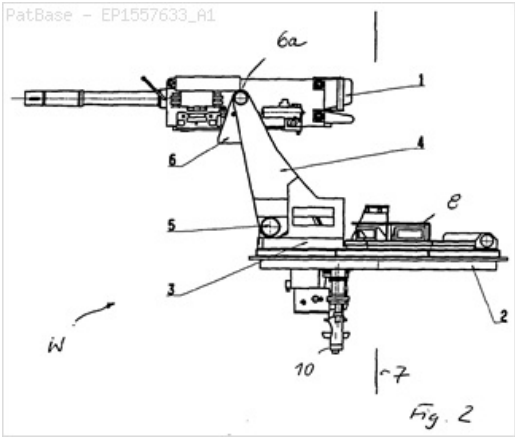
F41A23/50 F41A27/18 F41A27/24 F41G1/393 (Advanced/Invention);

F41G1/00 (Core/Invention)

International (IPC 1-7): F41A23/20 F41A23/24 F41A23/28 F41A23/34

F41A27/18 F41A27/24 F41G1/393

CPC: F41A27/24 F41G1/393 F41A23/005 F41A23/20 F41A23/34



Family:

Publication number	Publication date	Application number	Application date
AT459852 E	20100315	AT20050000906T	20050118
AT541175 E	20120115	AT20050000907T	20050118
DE102004003476 A1	20050818	DE200410003476	20040122
DE102004063882 A1	20050818	DE200410063882	20040122
DE102004063882 B4	20080403	DE200410063882	20040122
DE502005009114 D1	20100415	DE200550009114T	20050118
DE502005012308 D1	20120308	DE200550012308T	20050118
EP1557633 A1	20050727	EP20050000906	20050118
EP1557633 B1	20100303	EP20050000906	20050118
EP1557634 A1	20050727	EP20050000907	20050118
EP1557634 B1	20120111	EP20050000907	20050118
PL1557634 T3	20120629	PL20050000907T	20050118

Priority:

DE200410003476 20040122 DE200410063882 20040122 EP20050000907 20050118

Probable Assignee: RHEINMETALL LANDSYSTEME GMBH

Assignee(s): (std): RHEINMETALL LANDSYSTEME GMBH

Inventor(s): (std): JAKOB JOSEF ; BRANDL GERD

Agent(s): THUL PATENTANWALTSGESELLSCHAFT MBH; DIETRICH BARBARA

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

15) Family number: 5193156 (GB1605173A) © PatBase

Title: ARMoured VEHICLE

Abstract: (Claim 1) 1. The tank comprises a tank body 1 with a crew compartment 2 in front, an ammunition chamber 3 in the middle and a compartment 4 for the drive unit at the rear. A turret 6 with a gun 7 is rotatably mounted on the tank by means of a bearing ring 5. The gun 7 is held in the turret 6 in the manner of a top mounted gun carriage. Its silhouette is very shallow. As there is no member of the crew in the turret 6 the only space which has to be provided is that required for loading the gun and for the aligning movements. This results in the aforementioned gun carriage type construction and support for the gun 7. The tank is in the form of a heavy chain driven vehicle. Its width is approximately 3400 mm, so that apart from the space required for the chains 8 the tank body 1 can still be wide enough to accommodate three persons sitting next to one another as shown in Figure

Classifications:

International (IPC 8-9): F41H7/02 F41H7/04 (Advanced/Invention)

International (IPC 1-7): F41H7/02

CPC: F41H7/02 F41H7/04 F41H7/048

European: F41H7/02 F41H7/04 F41H7/04G



Family:

Publication number	Publication date	Application number	Application date
GB1605173 A	19821103	GB19710029034	19710621

Priority:

GB19710029034 19710621

Probable Assignee:

BLOHM VOSS AG

Assignee(s): (std):

BLOHM VOSS AG

Assignee(s):

BLOHM AND VOSS AG