

15 Documents

Publication numbers	Title	Current assignees
EP3312544 A1	Interface support for sighting system	CMI DEFENCE
US4318330 A	Method and apparatus for the precise alignment of a weapon	RHEINSTAHL
EP-889372 A2	Image forming apparatus having a revolving type developing unit	RICOH
FR2491611 A1	Shock-resistant weapon sight - includes gyroscopically stabilised mirror and angular position sensor indicating movements of optical system	FRANCE ETAT
EP3577509 A1	Viewing optic with an integrated display system	SHELTERED WINGS
FR1002098 A	Supply method, power supply and cooling to the firearms, and firearm submachine gun or other such as, for the implementation of these methods	
EP2888712 A1	Integration of a robotic system with one or more mobile computing devices	ANKI
IN2012DE01216 A	Simulation based integrated test facility	DRDO - DEFENCE RESEARCH & DEVELOPMENT ORGANIZATION
WO2019204811 A1	Viewing optic with direct active reticle targeting	SHELTERED WINGS
EP3571469 A1	Point layout system using single laser transmitter	TRIMBLE NAVIGATION
EP1489970 A1	Apparatus for screening and diagnosing by dual stethoscopic and doppler detection	BINDEFELD HERVE
EP-287929 A2	Remote sensing gas analyzer.	AIL SYSTEMS
EP3166447 A1	Mounting apparatus	Franklin Elle. Christopher, ...
WO2013169312 A1	Robotic system and methods of use	ROBOTEX
US20180154271 A1	Virtual representation of physical agent	ANKI

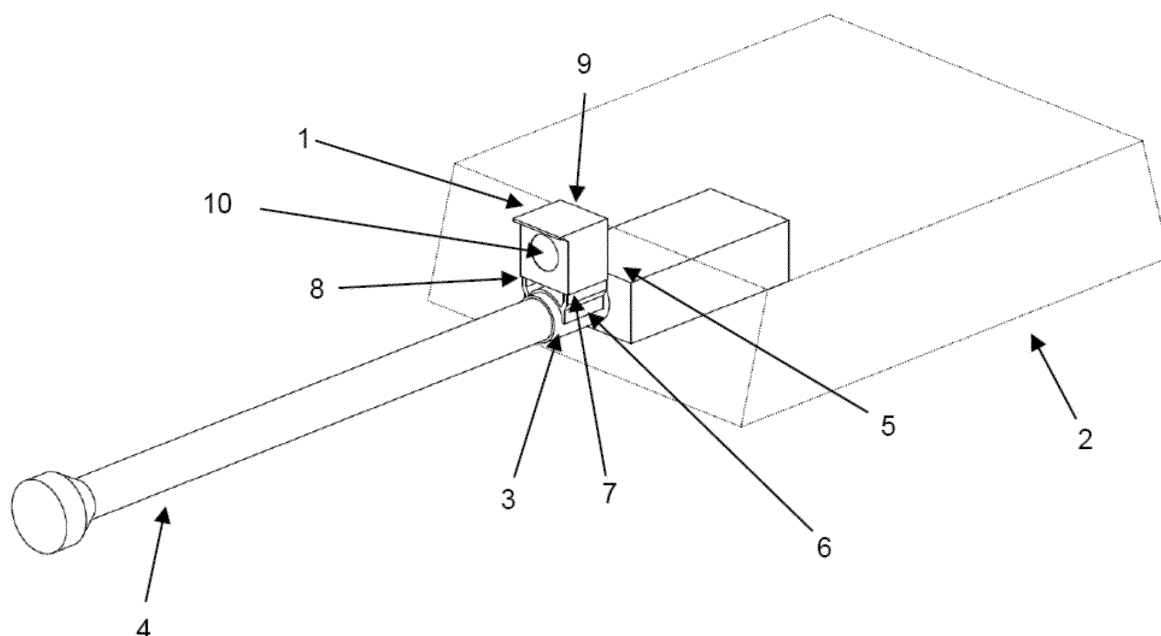
Family 1/15 - FAMPAT - ©Questel

Title

(EP3312544)

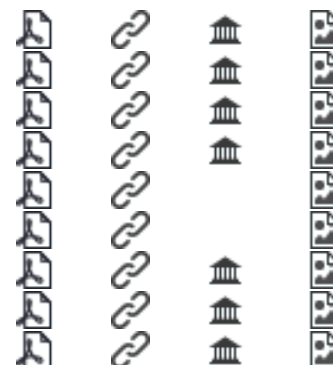
Interface **support** for sighting system

Images



Publication numbers with kind code & date

BE1025833	B1	2019-10-23	BE1025833
US20190310047	A1	2019-10-10	US20190310047
BE1025833	A1	2019-07-18	BE1025833
EP3469297	A1	2019-04-17	EP3469297
CO2019000042	A2	2019-01-18	CO2019000042
SG11201810565V	A	2018-12-28	SG11201810565V
EP3312544	A1	2018-04-25	EP3312544
CA3027609	A1	2017-12-21	CA3027609
WO2017/216069	A1	2017-12-21	WO2017216069



Abstract

(EP3312544)

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 a mask of 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** fastened perpendicularly to the plate.

(From US2019310047 A1)

Inventors

NUYTS CAMILLE

VAN DEN BROUCKE GEOFFROY

DELVAUX PHILIPPE

Latest standardized assignees - inventors removed

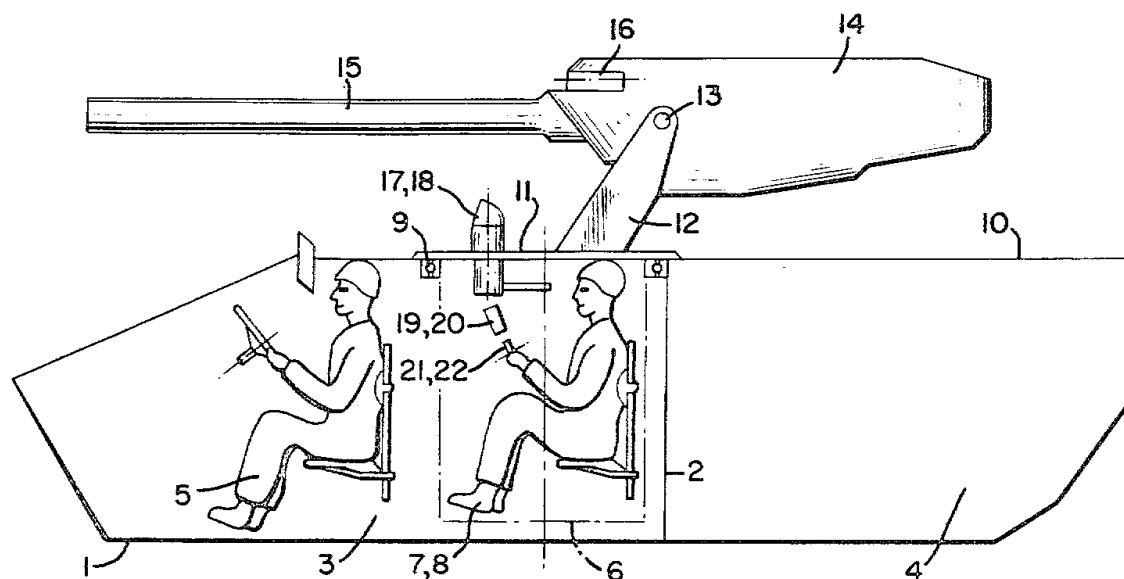
CMI DEFENCE

Family 2/15 - FAMPAT - ©Questel

Title

(US4318330)

Method and apparatus for the precise alignment of a weapon

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

DE2434640	C1	1985-10-10	DE2434640
FR2502322	B1	1985-04-26	FR2502322
FR2502322	A1	1982-09-24	FR2502322
US4318330	A	1982-03-09	US4318330
GB1605106	A	1981-12-16	GB1605106

**Abstract**

(US4318330)

A method and apparatus for precisely aligning a top-mounted individually stabilized weapon on an armored **vehicle** by means of a fire control system including an optical observation and **aiming** system controlled by the **vehicle** gunner after a target, which has been optically sighted by the **vehicle** commander by means of a stabilized panoramic optical device, has been taken over by the **vehicle** gunner in his own individually stabilized optical device. After sighting a target the **vehicle** commander initiates a control signal which causes the actual values of position of his panoramic optical device to be transmitted to the stabilization control of the gunner's optical device as rated values resulting in the two optical devices being aligned. Thereafter, in response to control signals generated by the gunner, the weapon is aimed at the target as seen through the gunner's optical device, the image of the target as seen by a target television camera fixedly mounted on the weapon is switched to a television monitor in front of the gunner, and then the weapon is finely aimed at the target as seen on the monitor and is fired.

Inventors

HAUSENBLAS HELMUT

Latest standardized assignees - inventors removed

RHEINSTAHL

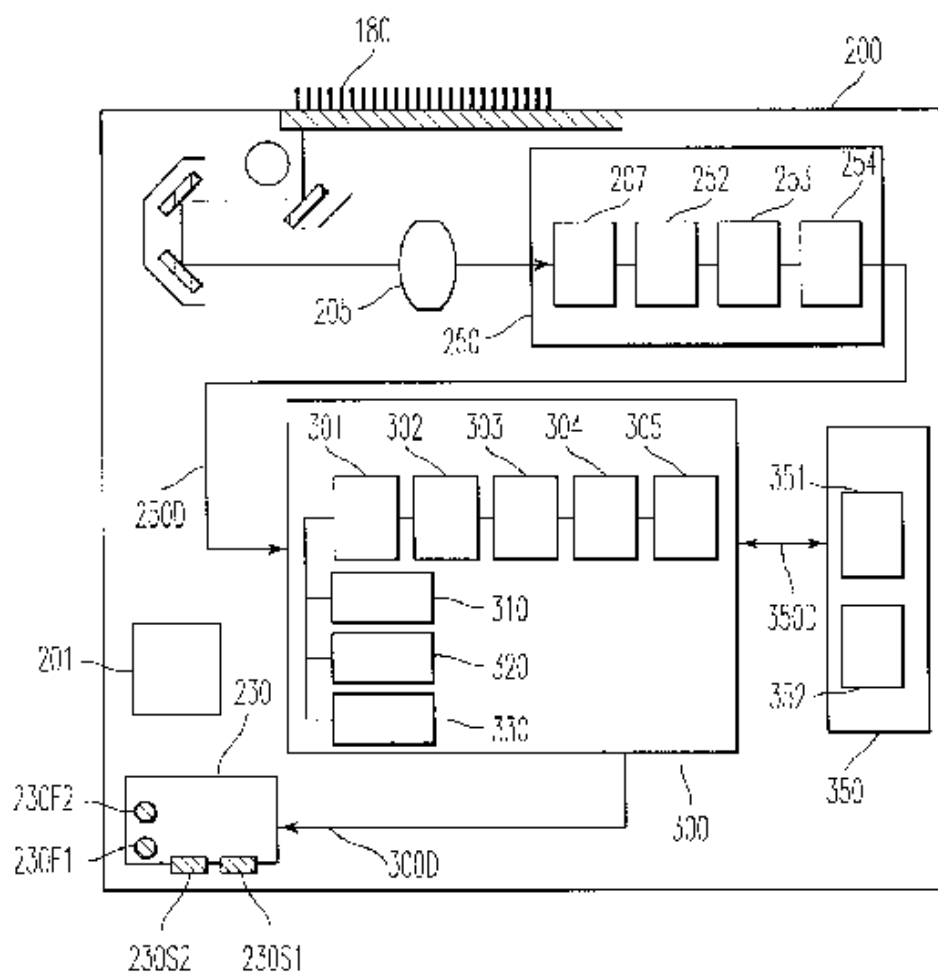
Family 3/15 - FAMPAT - ©Questel

Title

(EP-889372)

Image forming apparatus having a revolving type developing unit

Images

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

DE69839904	D1	2008-10-02	DE69839904
EP0889372	B1	2008-08-20	EP-889372
JP3679921	B2	2005-05-20	JP3679921
CN1158571	C	2004-07-21	CN1158571C
KR100310126	B1	2002-02-19	KR100310126
US6072967	A	2000-06-06	US6072967
EP0889372	A3	2000-05-03	EP-889372
US5991569	A	1999-11-23	US5991569
JP11084984	A	1999-03-30	JP11084984
JP11038722	A	1999-02-12	JP11038722
JP11038753	A	1999-02-12	JP11038753



JP11038754	A	1999-02-12	JP11038754
KR19990006723	A	1999-01-25	KR19990006723
EP0889372	A2	1999-01-07	EP-889372
CN1201917	A	1998-12-16	CN1201917



Abstract

(EP0889372)

A color image forming apparatus having a revolving type developing unit detachably installed therein. The revolving type developing unit includes a plurality of different color developing devices having a developing roller therein. Each of the developing rollers is movably mounted on the developing device so that a gap between each of the developing rollers and a periphery of a photo-conductive drum which is to be formed when the revolving type developing unit is set in the color image forming apparatus is enabled to be adjusted. <IMAGE>

Inventors

SUGIHARA KAZUYUKI

ISHIKAWA TOMOJI

KIMURA YOSHIYUKI

MAEDA KENJI

Latest standardized assignees - inventors removed

RICOH

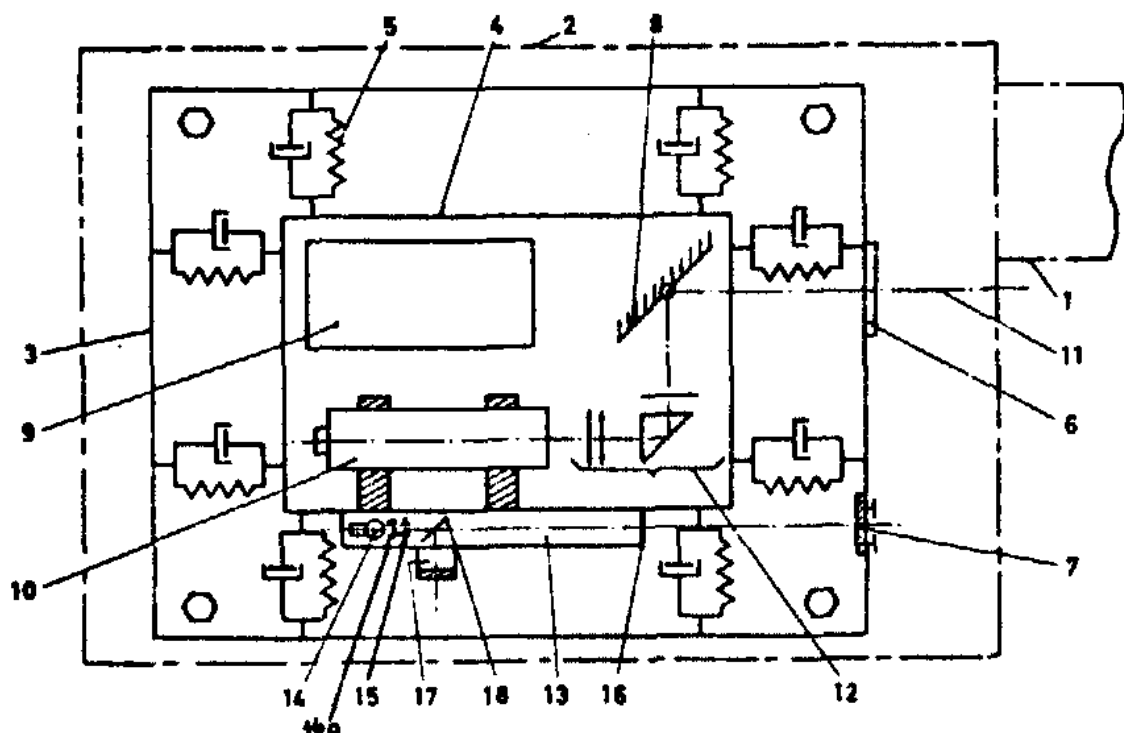
Family 4/15 - FAMPAT - ©Questel

Title

(FR2491611)

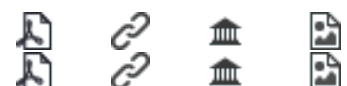
Shock-resistant weapon sight - includes gyroscopically stabilised mirror and angular position sensor indicating movements of optical system

Images



Publication numbers with kind code & date

FR2491611	B1	1984-09-14	FR2491611
FR2491611	A1	1982-04-09	FR2491611



Abstract

(FR2491611)

THE INVENTION RELATES TO A METHOD AND A POINTING DEVICE OF A WEAPON, SLAVED HAS A SIGHT USING A VIEWFINDER GYROSTABILISE EQUIPPED WITH SENSORS FOR COPYING.

THE WEAPON 1 IS MOUNTED ON THE CRADLE 2 AND DAMPED **VIBRATIONS** AND SHOCKS TRANSMITTED TO THE SIGHT BY PROVIDING A PLATE 4 IS OPENED FOR CLOSING OF DAMPING MEANS 5, INTERPOSED BETWEEN THE VIEWFINDER COMPRISING THE MIRROR 8 AND THE CRADLE 3; MEASURING MEANS 13 AND 17 ARE PROVIDED FOR LOCATING THE ANGULAR VARIATIONS OF THE PLATE WITH RESPECT TO THE CRADLE; IT TAKES INTO ACCOUNT IN THE SLAVING THE ANGULAR VARIATIONS BETWEEN THE SIGHT AND THE WEAPON TO NULLIFY THE EFFECT ANISOELASTIQUE DISCERNED BY THE GYROSCOPE.

THIS METHOD AND THIS DEVICE ARE APPLICABLE IN THE SLAVING THE POINTING AXIS OF A WEAPON HAS A LINE OF SIGHT.

Inventors

BABY JAMES FERNAND LOUIS

Latest standardized assignees - inventors removed

FRANCE ETAT

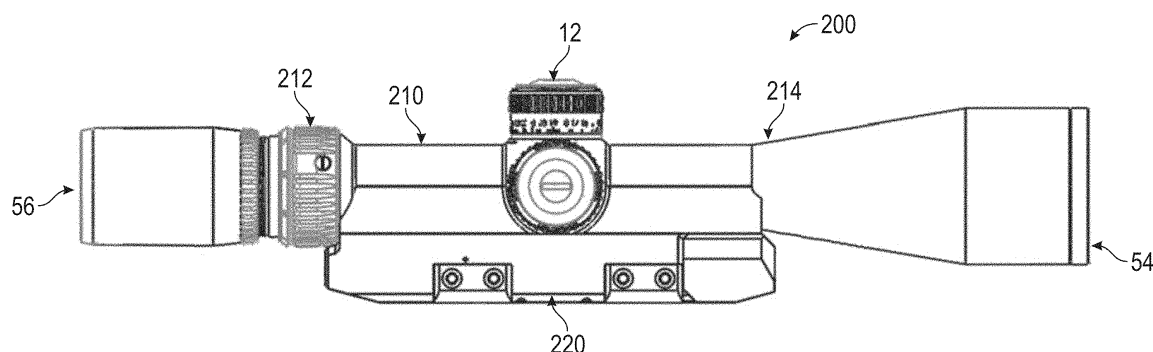
Family 5/15 - FAMPAT - ©Questel

Title

(EP3577509)

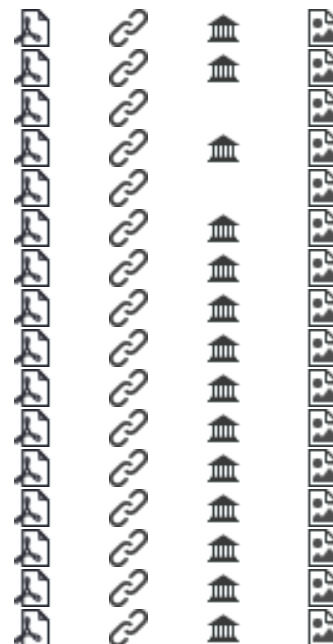
Viewing optic with an integrated display system

Images



Publication numbers with kind code & date

US10520716	B2	2019-12-31	US10520716
EP3577509	A1	2019-12-11	EP3577509
KR10-2019-0126784	A	2019-11-12	KR20190126784
CN110402406	A	2019-11-01	CN110402406
PH12019501819	A1	2019-10-07	PH12019501819
IL268505	A	2019-09-26	IL-268505
AU2018214674	A1	2019-08-22	AU2018214674
US20190146205	A1	2019-05-16	US20190146205
US10180565	B2	2019-01-15	US10180565
CA3052469	A1	2018-08-09	CA3052469
US20180224241	A1	2018-08-09	US20180224241
US20180224244	A1	2018-08-09	US20180224244
US20180224650	A1	2018-08-09	US20180224650
US20180224651	A1	2018-08-09	US20180224651
US20180224652	A1	2018-08-09	US20180224652
WO2018/145097	A1	2018-08-09	WO2018145097



Abstract

(EP3577509)

The disclosure relates to a viewing optic. In one embodiment, the disclosure relates to a viewing optic having an integrated display system. In one embodiment, the disclosure relates to a viewing optic having an integrated display system for generating images that are projected into the first focal plane of an optical system.

Inventors

HAVENS CALEN

LOWRY WILL

KLEMM IAN

HAMILTON SAMUEL

BOLLIG GARRISON

SCHULTZ CRAIG

CARLSON ANDREW

LYLE JASON

HAMILTON DAVID M

Latest standardized assignees - inventors removed

SHELTERED WINGS

Family 6/15 - FAMPAT - ©Questel

Title

(FR1002098)

Supply method, power supply and cooling to the firearms, and firearm submachine gun or other such as, for the implementation of these methods

Publication numbers with kind code & date

FR1002098	A	1952-03-03	FR1002098
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**Inventors**

DANHAERIN RAPHAEL-ROGER-PIERR

Family 7/15 - FAMPAT - ©Questel

Title

(EP2888712)

Integration of a robotic system with one or more mobile computing devices

Images

Inventors

SOFMAN BORIS

TAPPEINER HANS

PALATUCCI MARK MATTHEW

DENEALE PATRICK LEE

Latest standardized assignees - inventors removed

ANKI

Family 8/15 - FAMPAT - ©Questel

Title

(IN2012DE01216)

Simulation based integrated test facility

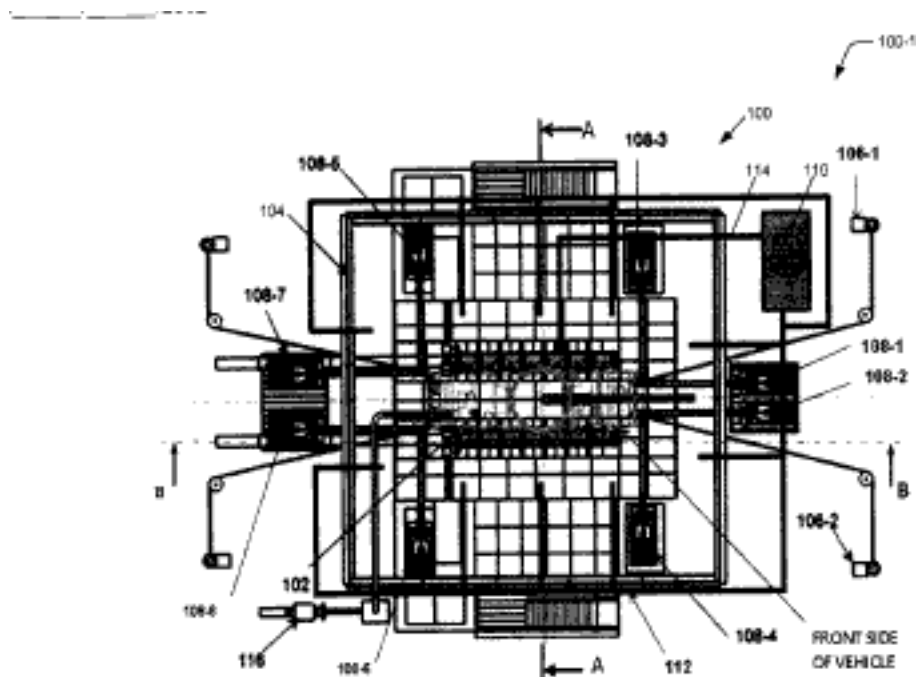
Images

Fig. 1a

Publication numbers with kind code & date[IN1216DE2012](#)

A

2015-07-17

IN2012DE01216

**Abstract**

(IN1216DE2012)

A simulation based integrated test facility (100, 200) for testing performance of a combat military **vehicle** (CMV) (102, 204) is disclosed. The simulation based test facility (100, 200) includes a test chamber (104) configured to provide a temperature controlled environment to evaluate performance of the CMV (102, 204). The CMV (102, 204) is mounted on a test bed (122, 216) within the test chamber (104). The simulation based test facility (100, 200) also includes an adjustment means (105) coupled to the test bed (122, 216). The adjustment means (105) is configured to position and hold the CMV (102, 204) on the test bed (122, 216). The simulation based test facility (100, 200) includes a plurality of hardware and software simulators associated with the test chamber (104). The plurality of hardware and software simulators are configured to simulate a realistic field environment for testing the CMV (102, 204).

Inventors

SANTHANAM RAMESH

BALASUBRAMANIAN ROHINI

SUNDARAM JOTHI

Latest standardized assignees - inventors removed

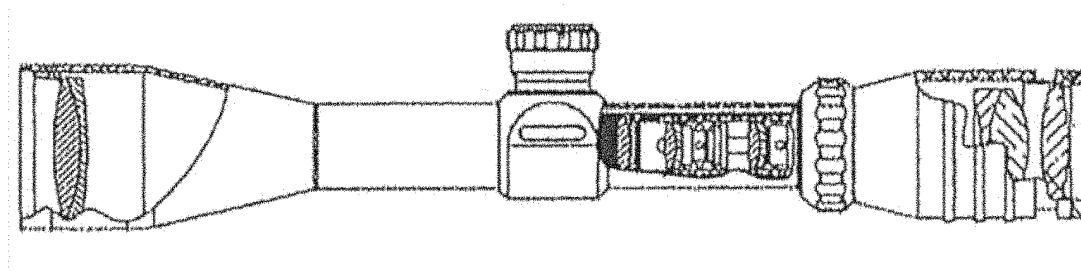
DRDO - DEFENCE RESEARCH & DEVELOPMENT ORGANIZATION

Family 9/15 - FAMPAT - ©Questel

Title

(WO2019204811)

Viewing optic with direct active reticle targeting

Images**Publication numbers with kind code & date**[US20190324260](#)

A1 2019-10-24

US20190324260

[WO2019/204811](#)

A1 2019-10-24

WO2019204811

**Abstract**

(WO2019/204811)

The disclosure relates to a viewing optic. In one embodiment, the disclosure relates to a viewing optic having an integrated display system. In one embodiment, the disclosure relates to a viewing optic having an integrated display system for generating images that are projected into the first focal plane of an optical system.

Inventors

HAMILTON SAMUEL J

HAVENS CALEN

KLEMM IAN

HAMILTON DAVID M

LOWRY WILL

BOLLIG GARRISON

SCHULTZ CRAIG

CARLSON ANDREW

Latest standardized assignees - inventors removed

SHELTERED WINGS

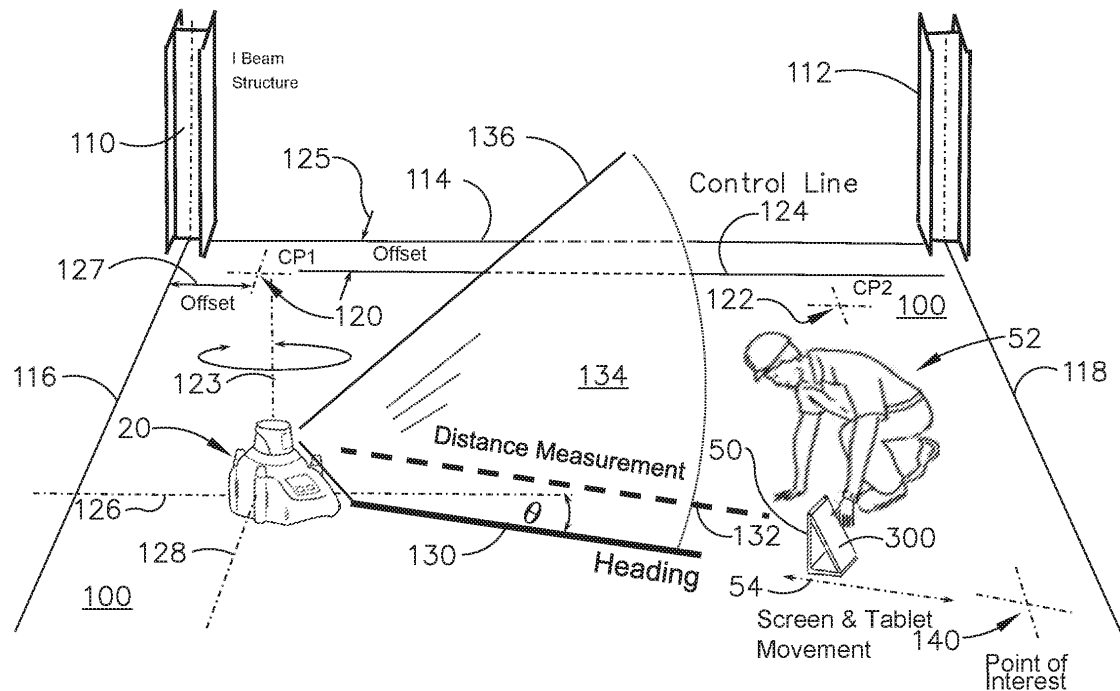
Family 10/15 - FAMPAT - ©Questel

Title

(EP3571469)

Point layout system using single laser transmitter

Images



Publication numbers with kind code & date

EP3571469	A1	2019-11-27	EP3571469
CN110192082	A	2019-08-30	CN110192082
WO2018/136319	A1	2018-07-26	WO2018136319
US20180202805	A1	2018-07-19	US20180202805



Abstract

(EP3571469)

A laser controller having an electronic distance measuring instrument and a laser light transmitter creating a vertical laser plane is used with a remote controller and a movable target for point layout tasks. The electronic distance measurer and laser transmitter are mounted on the same vertical pivot axis. Once the system is set-up for a particular jobsite, the laser plane can be aimed at a specific point of interest on the jobsite floor, and a visible laser light line will then appear on the floor, from the laser controller, all the way to that point of interest. The distance measuring instrument is aimed along the same heading as the laser plane, and it gives the distance to the movable target, which is moved along the visible laser light line, until reaching the specified distance, and thereby find the point of interest.

Inventors

UNGER ERIC KEITH

HAYES JAMES N

SNYDER CHRIS W

Latest standardized assignees - inventors removed

TRIMBLE NAVIGATION

Family 11/15 - FAMPAT - ©Questel

Title

(EP1489970)

Apparatus for screening and diagnosing by dual stethoscopic and doppler detection

Images

the ultrasonic and stethoscopic signals. The probe is connected to a transducer processing circuit (37) capable of supplying, from a Doppler signal, an audio signal by coupling the processing circuit to a loudspeaker (34) in contact with the ear trumpet for stethoscopic-type listening, and a video signal by coupling the processing circuit (37) to display means (39) to provide visual information.

Inventors

BINDEFELD HERVE

Latest standardized assignees - inventors removed

BINDEFELD HERVE

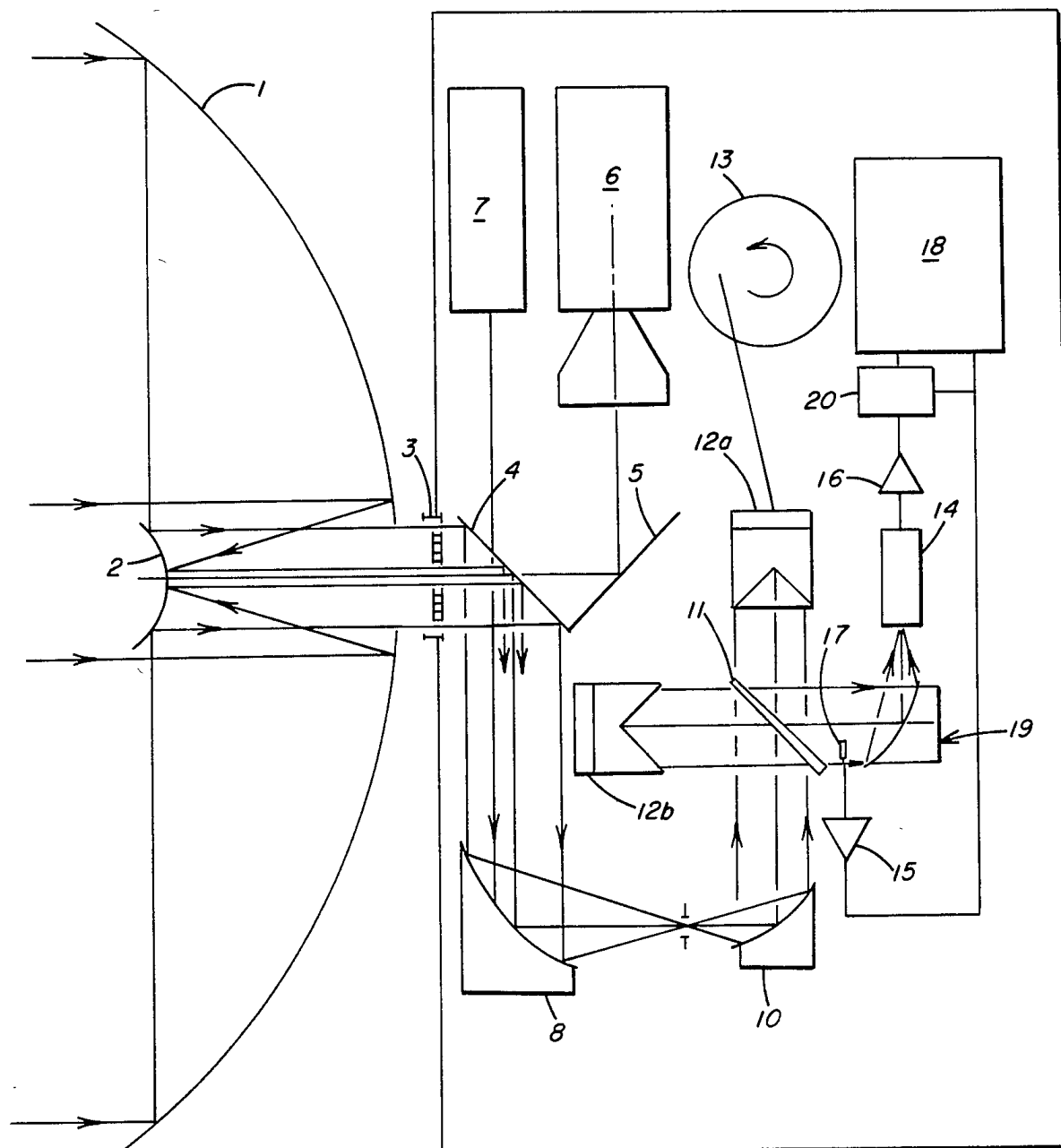
Family 12/15 - FAMPAT - ©Questel

Title

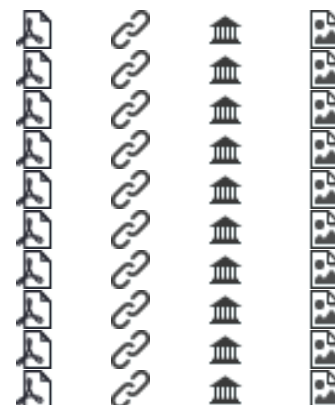
(EP-287929)

Remote sensing gas analyzer.

Images

**FIG 1****Publication numbers with kind code & date**

JP2733592	B2	1998-03-30	JP2733592
DE3887768	T2	1994-05-19	DE3887768
DE3887768	D1	1994-03-24	DE3887768
EP0287929	B1	1994-02-16	EP-287929
CA1321262	C	1993-08-10	CA1321262
EP0287929	A3	1990-03-28	EP-287929
JP01078134	A	1989-03-23	JP01078134
JPS6478134	A	1989-03-23	JP64078134
US4795253	A	1989-01-03	US4795253
EP0287929	A2	1988-10-26	EP-287929

**Abstract**

(EP0287929)

A particular area or areas are monitored for the presence of gaseous materials, particularly pollutants by collecting background radiation (both visible and infrared radiation) present in the selected area, analyzing the radiation collected with a spectrometer and making the results of this analysis available in a form understandable to the person or device monitoring the area for the presence of specified gaseous materials. The results of the spectrometric analysis may, for example, be displayed on a video unit or they may be printed. In a preferred embodiment, the results of the spectrometric analysis are displayed on a video unit simultaneously or sequentially with the image of the area from which the background radiation had been collected. Apparatus useful in the practice of this invention generally includes large energy collecting mirrors, an interferometer of the Michaelson-Morely type, a sensitive infrared detector, electronic data processing, and a device which records and/or displays the results of the determination(s). In a preferred apparatus, a "hot" mirror, a video camera, a computer and a video display unit are also employed.

Inventors

SANDRIDGE ROBERT L

HUNT ROBERT N

Latest standardized assignees - inventors removed

AIL SYSTEMS

Family 13/15 - FAMPAT - ©Questel

Title

(EP3166447)

Mounting apparatus

Images

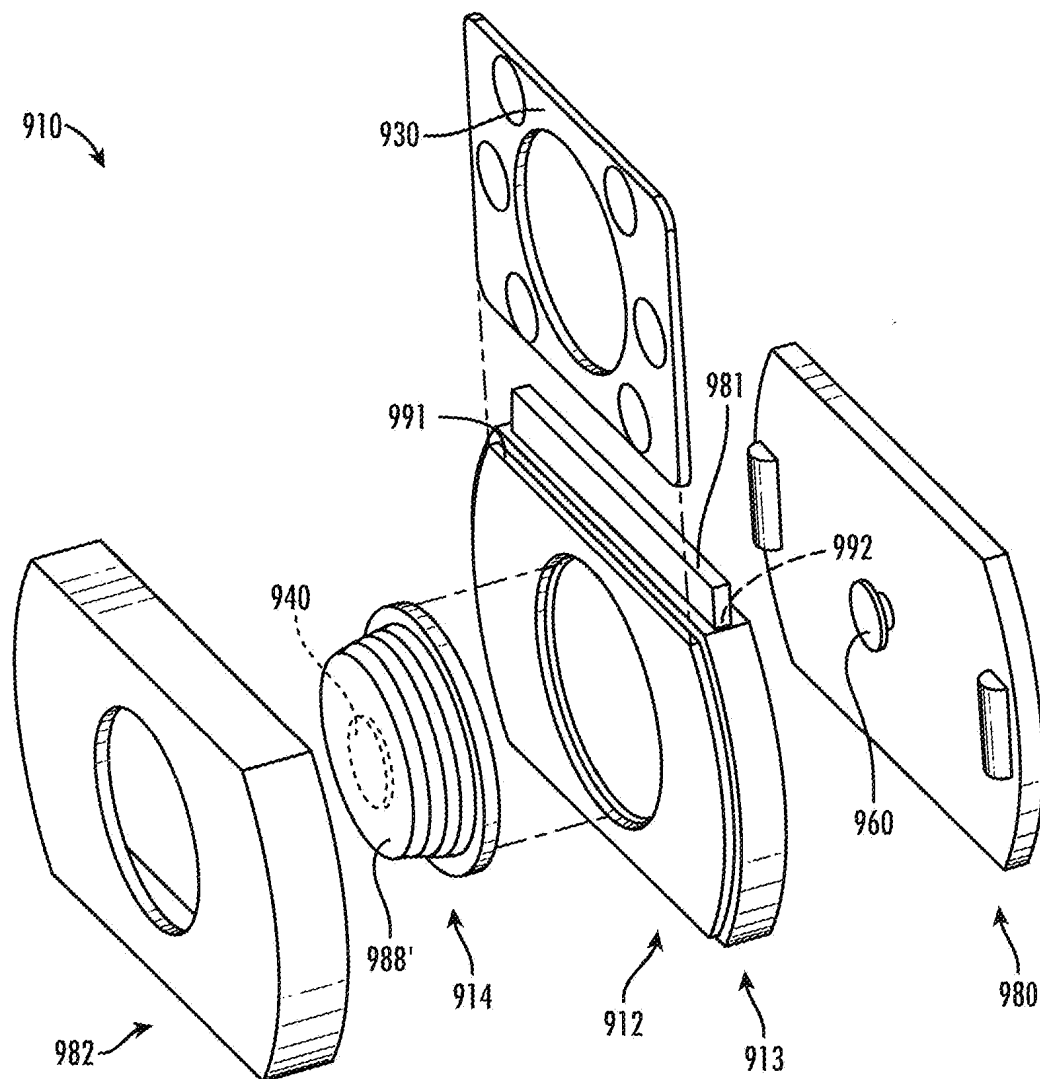


FIG. 28A

Publication numbers with kind code & date

RU2679178	C2	2019-02-06	RU2679178
RU2017104124	A3	2018-11-26	RU2017104124
RU2017104124	A	2018-08-08	RU2017104124
EP3166447	A4	2018-03-21	EP3166447
JP2017534305	A	2017-11-24	JP2017534305
CN107072415	A	2017-08-18	CN107072415
MX2017000402	A	2017-06-20	MX2017000402
KR20170067712	A	2017-06-16	KR20170067712
EP3166447	A1	2017-05-17	EP3166447
IN201717004609	A	2017-04-28	IN201717004609
AU2015287896	A1	2017-03-02	AU2015287896
TW201621205	A	2016-06-16	TW201621205
WO2016/007619	A1	2016-01-14	WO201607619

Abstract

(EP3166447)

A mounting apparatus and system and method for making the same are provided. The mounting apparatus allows an



object to be mounted to a mounting surface via magnetic attractions between different planes of engagement. Through the movement of planes of magnets, an object that is brought in proximity to the mounting apparatus may engage one of the magnetic planes and then be moved further to engage the other magnetic plane, with the combined magnetic force being configured to **support** the particular object for which the mounting apparatus is designed. The engagement and/or disengagement of the object from the mounting apparatus can thus occur in stages, by degrees, and/or in a tiered manner.

Inventors

FRANKLIN LEE CHRISTOPHER

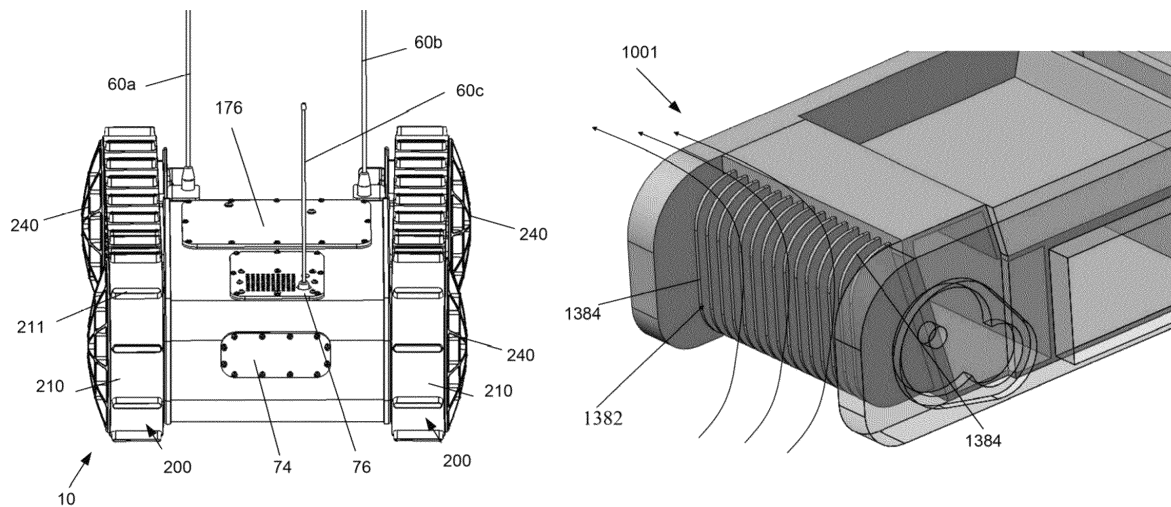
Family 14/15 - FAMPAT - ©Questel

Title

(WO2013169312)

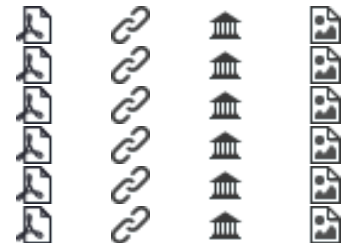
Robotic system and methods of use

Images



Publication numbers with kind code & date

US9050888	B2	2015-06-09	US9050888
CN104428197	A	2015-03-18	CN104428197
US20150021108	A1	2015-01-22	US20150021108
US20140076642	A1	2014-03-20	US20140076642
TW201345776	A	2013-11-16	TW201345776
WO2013/169312	A1	2013-11-14	WO2013169312



Abstract

(WO2013/169312)

A robotic system that can have a body and four flippers is described. Any or all of the flippers can be rotated. The flippers can have self-cleaning tracks. The tracks can be driven or passive. The robotic system can be controlled by, and send audio and/or video to and/or from, a remote operator control module. The methods of using and making the robotic system are also described.

Inventors

GETTINGS NATHAN D

GETTINGS ADAM M

PENN TAYLOR J

SILER EDWARD JOHN LLL

STEVENS ANDREW G

SCHNEIDER MICHAEL

APPLEBY JON

GAWLOWSKI MATTHEW

Latest standardized assignees - inventors removed

ROBOTEX

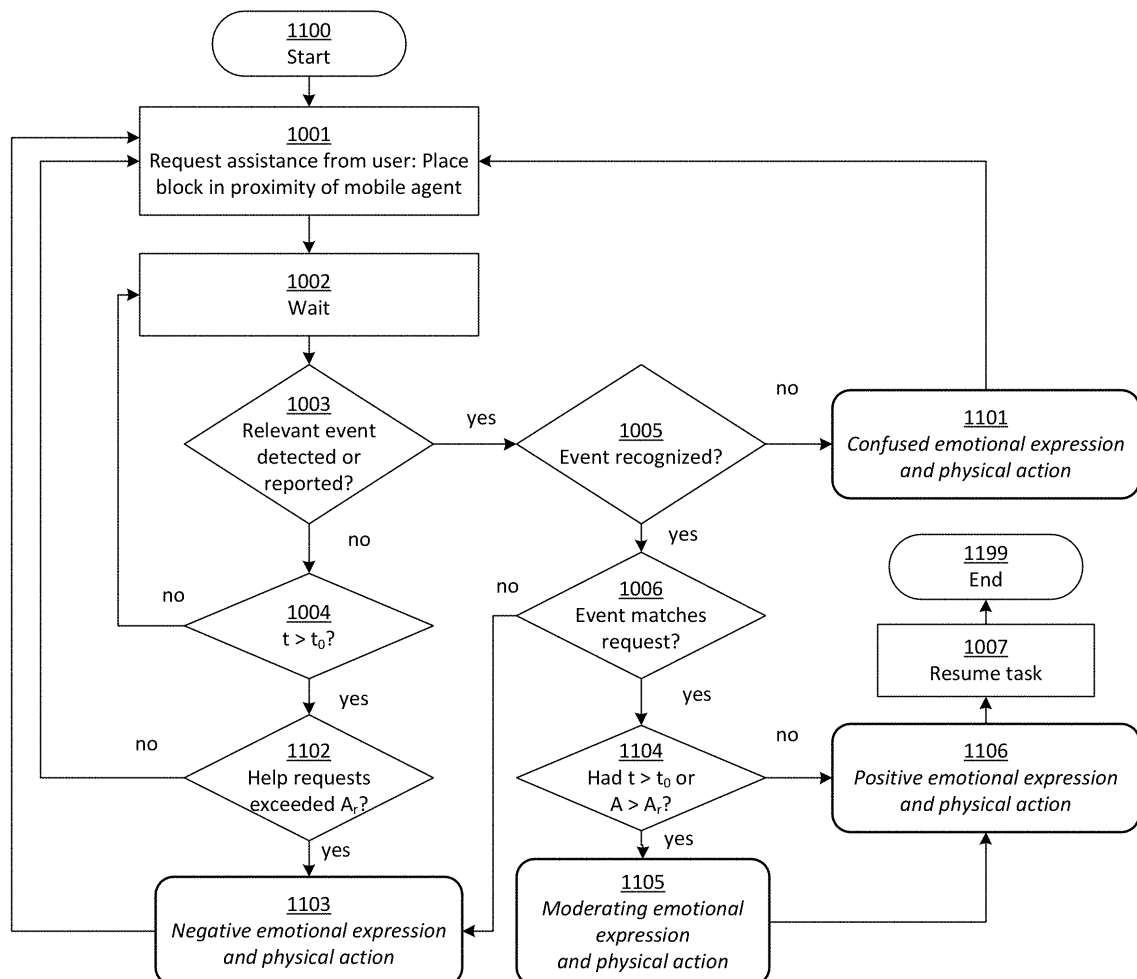
Family 15/15 - FAMPAT - ©Questel

Title

(US20180154271)

Virtual representation of physical agent

Images



Publication numbers with kind code & date

US20180207541	A1	2018-07-26	US20180207541
US20180154271	A1	2018-06-07	US20180154271
US9919232	B2	2018-03-20	US9919232
US20150375129	A1	2015-12-31	US20150375129



Abstract

(US20180154271)

A robotic system is integrated with one or more mobile computing devices. Physical configurations of individual components of the system in physical space, or agents, under control of a user or users, are duplicated in a representation in virtual space. Some degree of real-time parity is maintained between the physical and virtual spaces, so as to implement a virtual environment that mirrors the physical one. Events occurring within one environment can directly influence and bear consequence on the course of events occurring within the other environment. Elements of virtual space thereby become truly interdependent and unified on a peer footing with elements in physical space. In at least one embodiment, the system is implemented as an application in entertainment, such as the manifestation of a video game in physical space.

Inventors

SOFMAN BORIS

TAPPEINER HANNIS

PALATUCCI MARK MATTHEW

DENEALE PATRICK LEE

Latest standardized assignees - inventors removed

ANKI