PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Commissariat a l'Energie Atomique	01/09/2008

RECEIVING PARTY DATA

Name:	Intellectual Ventures Fund 23 LLC
Street Address:	7251 W. Lake Mead Blvd., Ste. 300
City:	Las Vegas
State/Country:	NEVADA
Postal Code:	89128

PROPERTY NUMBERS Total: 12

Property Type	Number
Application Number:	07310726
Application Number:	08185472
Patent Number:	5408511
Application Number:	08390087
Patent Number:	5638091
Patent Number:	5862397
Patent Number:	6115413
Patent Number:	6296387
Patent Number:	6748007
Patent Number:	6877986
Patent Number:	6888915
Application Number:	10955037

CH $480.00 07310726

CORRESPONDENCE DATA

Fax Number: (202)293-6229
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone:	202-331-7111
Email:	jgluck@cblh.com
Correspondent Name:	Connolly Bove Lodge & Hutz LLP
Address Line 1:	1875 Eye Street NW, Suite 1100
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20006

ATTORNEY DOCKET NUMBER:	27592-00287
NAME OF SUBMITTER:	Jeffrey W. Gluck

Total Attachments: 10
source=CEA 2007 Signed Exh. B to IV Fund 23#page1.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page2.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page3.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page4.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page5.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page6.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page7.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page8.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page9.tif
source=CEA 2007 Signed Exh. B to IV Fund 23#page10.tif

Exhibit B

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, the Commissariat à l'Energie Atomique, a French state-owned research entity with a scientific, technical and industrial activity duly organised under the laws of France having offices at and having its registered office located at 25, rue Leblanc, Immeuble « Le Ponant D », 75015, Paris, France, ("***Assignor***") and represented by Mr Jean Therme, does hereby sell, assign, transfer, and convey unto Intellectual Ventures Fund 23 LLC, a Nevada limited liability company, with an address at 7251 W Lake Mead Blvd, Ste 300 Las Vegas, NV 89128 ("***Assignee***"), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the "***Patent Rights***"):

(a) the provisional patent applications, patent applications and patents listed in the table below (the "***Patents***");

(b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, (ii) for which any of the Patents directly or indirectly forms a basis for priority, and/or (iii) that were co-owned applications that directly or indirectly incorporate by reference the Patents;

(c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);

(d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, and utility models;

(e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents below and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(f) all inventions, invention disclosures, and discoveries described in any item in any of the foregoing categories (a) through (e) and all other rights arising out of such inventions, invention disclosures, and discoveries;

(g) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (f), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

(h) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (b) through (g), including, without limitation, all causes of action and other enforcement rights for

(i) damages,
(ii) injunctive relief, and
(iii) any other remedies of any kind

for past, current, and future infringement; and

(i) all rights to collect royalties and other payments under or on account of any of the Patents

and/or any item in any of the foregoing categories (b) through (h).

Patent or Application No.	Country	Filing Date	Title of Patent and First Named Inventor
US5124914 (US 07/310726)	US	6/23/1992 (05/20/1988)	METHOD AND DEVICE FOR OBTAINING TRIDIMENSIONAL OPTICAL IMAGE FORMATION FROM BIDIMENSIONAL MEASUREMENTS OF ATTENUATION OF RADIATION THROUGH AN OBJECT Grangeat, Pierre; FR
DE3885650 (DE88401234)	DE	11/18/1993 (5/20/1988)	Method and device for the three-dimensional imaging from two-dimensional measurements of radiation attenuation GRANGEAT PIERRE (FR)
GB0292402 (GB88401234)	GB	11/18/1993 (5/20/1988)	Method and device for the three-dimensional imaging from two-dimensional measurements of radiation attenuation GRANGEAT PIERRE (FR)
IT0292402 (IT88401234)	IT	11/18/1993 (5/20/1988)	Method and device for the three-dimensional imaging from two-dimensional measurements of radiation attenuation GRANGEAT PIERRE (FR)
FR0292402 (FR88401234)	FR	11/18/1993 (05/20/1988)	Method and device for the three-dimensional imaging from two-dimensional measurements of radiation attenuation GRANGEAT PIERRE (FR)
US5406478 (US08/185472)	US	4/11/1995 (1/24/1994)	METHOD FOR RECONSTRUCTING THREE-DIMENSIONAL IMAGES OF A CHANGING OBJECT Delageniere, Solange; FR; Grangeat, Pierre; FR
DE69421303 (DE94400176)	DE	10/27/1999 (1/27/1994)	Three-dimensional picture reconstruction process of evolving object DELAGENIERE SOLANGE (FR); GRANGEAT PIERRE (FR)
FR0611181 (FR94400176)	FR	10/27/1999 (1/27/1994)	Three-dimensional picture reconstruction process of evolving object DELAGENIERE SOLANGE (FR); GRANGEAT PIERRE (FR)

PATENT
REEL: 020403 FRAME: 0561
Volkswagen Exhibit 1049, Page 4 of 12
Volkswagen v. Longhorn - IPR2025-01064

GB0611181 (GB94400176)	GB	10/27/1999 (1/27/1994)	THREE-DIMENSIONAL PICTURE RECONSTRUCTION PROCESS OF EVOLVING OBJECT DELAGENIERE SOLANGE (FR); GRANGEAT PIERRE (FR)
FR2692061 (FR9206844)	FR	07/22/1994 (6/5/1992)	Method for the reconstruction of 3D images of an object from measures using a cone beam source and a two dimensional detector array PIERRE GRANGEAT; REGIS GUILLEMAUD; PHILIPPE RIZO
US5408511 (US65142)	US	4/18/1995 (5/21/1993)	PROCESS FOR THE RECONSTRUCTION OF THREE-DIMENSIONAL IMAGES OF AN OBJECT BY MEASUREMENTS USING A CONICAL RADIATION AND A BIDIMENSIONAL DETECTOR ARRAY Grangeat, Pierre; FR; Guillemaud, Regis; FR; Rizo, Philippe; FR
DE69326857 (DE93401423)	DE	10/27/1999 (6/3/1993)	Method for the reconstruction of 3D images of an object from measures using a cone beam source and a two dimensional detector array GRANGEAT PIERRE (FR); GUILLEMAUD REGIS (FR); RIZO PHILIPPE (FR)
GB0573364 (GB93401423)	GB	10/27/1999 (6/3/1993)	METHOD FOR THE RECONSTRUCTION OF 3D IMAGES OF AN OBJECT FROM MEASURES USING A CONE BEAM SOURCE AND A TWO DIMENSIONAL DETECTOR ARRAY GRANGEAT PIERRE (FR); GUILLEMAUD REGIS (FR); RIZO PHILIPPE (FR)
US5574333 (US08/390087)	US	11/12/1996 (2/17/1995)	METHOD FOR MANUFACTURING A CATHODE FOR FLUORESCENT DISPLAY SCREENS OF THE MICROTIP-TYPE Clerc, Jean-Frederic; FR
DE69500372	DE	06/25/1997	Method of manufacturing a

PATENT
REEL: 020403 FRAME: 0562
Volkswagen Exhibit 1049, Page 5 of 12
Volkswagen v. Longhorn - IPR2025-01064

(DE95410012)		(2/20/1995)	cathode of a microtip fluorescent display and its product CLERC JEAN-FREDERIC (FR)
FR0668604 (FR95410012)	FR	6/25/1997 (2/20/1995)	Method of manufacturing a cathode of a microtip fluorescent display and its product CLERC JEAN-FREDERIC (FR)
GB0668604 (GB95410012)	GB	6/25/1997 (2/20/1995)	METHOD OF MANUFACTURING A CATHODE OF A MICROTIP FLUORESCENT DISPLAY AND ITS PRODUCT CLERC JEAN-FREDERIC (FR)
IT0668604 (IT95410012)	IT	6/25/1997 (2/20/1995)	METHOD OF MANUFACTURING A CATHODE OF A MICROTIP FLUORESCENT DISPLAY AND ITS PRODUCT CLERC JEAN-FREDERIC (FR)
JP3616418 (JP07-055178)	JP	11/12/2004 (2/21/1995)	MANUFACTURE OF CATHODE FOR MICROCHIP TYPE FLUORESCENCE DISPLAY SCREEN CLERC JEAN-FREDERIC (FR)
JP3453141 (JP93519953) JP05-519953T	JP	07/18/2003 (5/18/1993)	METHOD FOR DISPLAYING DIFFERENT LEVELS OF GRAY AND SYSTEM FOR IMPLEMENTING SUCH METHOD SARRASIN DENIS (FR)
DE69304199 (DE93910133)	DE	8/21/1996 (5/18/1993)	METHOD FOR DISPLAYING DIFFERENT LEVELS OF GRAY AND SYSTEM FOR IMPLEMENTING SUCH METHOD SARRASIN DENIS (FR)
FR0641475 (FR93910133)	FR	8/21/1996 (5/18/1993)	METHOD FOR DISPLAYING DIFFERENT LEVELS OF GRAY AND SYSTEM FOR IMPLEMENTING SUCH METHOD SARRASIN DENIS (FR)
GB0641475 (GB93910133)	GB	8/21/1996 (5/18/1993)	METHOD FOR DISPLAYING DIFFERENT LEVELS OF GRAY AND SYSTEM FOR IMPLEMENTING SUCH METHOD

PATENT
REEL: 020403 FRAME: 0563
Volkswagen Exhibit 1049, Page 6 of 12
Volkswagen v. Longhorn - IPR2025-01064

			SARRASIN DENIS (FR)
IT0641475 (IT93910133)	IT	8/21/1996 (5/18/1993)	METHOD FOR DISPLAYING DIFFERENT LEVELS OF GRAY AND SYSTEM FOR IMPLEMENTING SUCH METHOD SARRASIN DENIS (FR)
US5638091 (US08/338570)	US	6/10/1997 05/18/1993	PROCESS FOR THE DISPLAY OF DIFFERENT GREY LEVELS AND SYSTEM FOR PERFORMING THIS PROCESS Sarrasin, Denis; FR
FR2742560 (FR9515049)	FR	01/16/1998 (12/19/1995)	Architecture of a system of array processors with multiple parallel structures ESSAFI HASSANE; D HUMIERES DOMINIQUE; PIC MARC
US5862397 (US08/761757)	US	1/19/1999 (12/5/1996)	ARRAY SYSTEM ARCHITECTURE OF MULTIPLE PARALLEL STRUCTURE PROCESSORS Essafi, Hassane; FR; D'Humieres, Dominique; FR; Pic, Marc; FR
FR2757330 (FR9615569)	FR	01/15/1999 (12/18/1996)	Method of multipath signal reception LATTARD DIDIER; LEQUEPEYS JEAN RENE; DANIELE NORBERT; PIAGET BERNARD
US6115413 (US08/975459)	US	9/5/2000 (11/21/1997)	PROCESS FOR THE TRANSMISSION OF INFORMATION BY PULSE RESPONSE AND THE CORRESPONDING RECEIVER Lattard, Didier; FR; Lequepeys, Jean-Rene; FR; Daniele, Norbert; FR; Piaget, Bernard; FR
DE69733991 (DE97403054)	DE	8/17/2005 (12/16/1997)	Method of multipath signal reception LATTARD DIDIER (FR); LEQUEREYS JEAN-RENE (FR); DANIELE NORBERT (FR); PIAGET BERNARD (FR)
GB0849889 (GB97403054)	GB	8/17/2005 (12/16/1997)	Method of multipath signal reception

			LATTARD DIDIER (FR); LEQUEREYS JEAN-RENE (FR); DANIELE NORBERT (FR); PIAGET BERNARD (FR)
IT0849889 (IT97403054)	IT	8/17/2005 (12/16/1997)	Method of multipath signal reception LATTARD DIDIER (FR); LEQUEREYS JEAN-RENE (FR); DANIELE NORBERT (FR); PIAGET BERNARD (FR)
FR2786648 (FR9815044)	FR	01/05/2001 (11/30/1998)	Method for correcting image artifacts in a matrix type X or gamma-ray detector GUILLEMAUD REGIS
US6296387 (US09/438367)	US	10/2/2001 (11/12/1999)	METHOD FOR CORRECTING IMAGE DEFECTS FROM A MATRIX-TYPE X OR Y-RAY DETECTOR Guillemaud, Regis; FR
EP 1006719 (EP99402949)	EP	(11/26/1999)	Method for correcting image artifacts in a matrix type X or gamma-ray detector GUILLEMAUD REGIS (FR)
FR2794586 (FR9906947)	FR	08/03/2001 (6/2/1999)	Method for processing an impulse signal with an adaptive threshold and corresponding receiver LATTARD DIDIER; LEQUEPEYS JEAN RENE; VARREAU DIDIER; BOUVIER DES NOES MATHIEU
DE60021478 (DE00401505)	DE	7/27/2005 (5/29/2000)	Method for processing an impulse signal with an adaptive threshold and corresponding receiver LATTARD DIDIER (FR); LEQUEPEYS JEAN-RENE (FR); VARREAU DIDIER (FR); BOUVIER DES NOES MATHIEU (FR)
GB1058402 (GB00401505)	GB	7/27/2005 (5/29/2000)	Method for processing an impulse signal with an adaptive threshold and corresponding receiver LATTARD DIDIER (FR); LEQUEPEYS JEAN-RENE (FR); VARREAU DIDIER (FR); BOUVIER DES NOES MATHIEU (FR)

IT1058402 (IT00401505)	IT	7/27/2005 (5/29/2000)	Method for processing an impulse signal with an adaptive threshold and corresponding receiver LATTARD DIDIER (FR); LEQUEPEYS JEAN-RENE (FR); VARREAU DIDIER (FR); BOUVIER DES NOES MATHIEU (FR)
US6748007 (US09/583746)	US	6/8/2004 (5/31/2000)	METHOD OF PROCESSING A PULSE RESPONSE WITH AN ADAPTIVE THRESHOLD AND CORRESPONDING RECEIVER Lattard, Didier; FR; Lequepeys, Jean-Rene; FR; Varreau, Didier; FR; Bouvier des Noes, Mathieu; FR
FR2810779 (FR0007928)	FR	06/13/2003 (6/21/2000)	Apparatus with variable surface relief for conveying tactile or visual information has wax-filled cavities and heating elements under deformable membrane FOURNIER RAYMOND; RIWAN ALAIN
(CA2412479)	CA	(6/20/2001)	ELEMENT WITH EXPANSIBLE RELIEF FOURNIER RAYMOND (FR); RIWAN ALAIN (FR)
JP2002-503853	JP	(6/20/2001)	ELEMENT WITH EXPANSIBLE RELIEF FOURNIER RAYMOND (FR); RIWAN ALAIN (FR)
DE60109927 (DE01947540)	DE	4/6/2005 (6/20/2001)	ELEMENT WITH EXPANSIBLE RELIEF FOURNIER RAYMOND (FR); RIWAN ALAIN (FR)
GB1297516 (GB01947540)	GB	4/6/2005 (6/20/2001)	ELEMENT WITH EXPANSIBLE RELIEF FOURNIER RAYMOND (FR); RIWAN ALAIN (FR)
IT1297516 (IT01947540)	IT	4/6/2005 (6/20/2001)	ELEMENT WITH EXPANSIBLE RELIEF FOURNIER RAYMOND (FR); RIWAN ALAIN (FR)
US6877986 (US10/312489)	US	4/12/2005 (06/20/2001)	ELEMENT WITH EXPANSIBLE RELIEF

			Fournier, Raymond; FR; Riwan, Alain; FR
FR2826157 (FR0107918)	FR	06/25/2004 (6/15/2001)	Method for reconstruction of an image of a moving object, uses retroprojection to give partial results from which movement laws can be deduced and used to fill in anticipated position of image points over time KOENIG ANNE; GRANGEAT PIERRE
EP1417646 (EP02745634)	EP	(6/14/2002)	METHOD FOR RECONSTRUCTION OF AN IMAGE OF A MOVING OBJECT KOENIG ANNE (FR); GRANGEAT PIERRE (FR)
US6888915 (US10/480742)	US	5/3/2005 (06/14/2002)	METHOD FOR RECONSTRUCTION OF AN IMAGE OF A MOVING OBJECT Koenig, Anne; FR; Grangeat, Pierre; FR
FR2860630 (FR0350631)	FR	04/28/2006 (10/01/2003)	METHOD OF RECONSTRUCTING AN IMAGE WITH DATA ACQUISITION ACCORDING TO SEVERAL IMAGERY MODES AND SYNCHRONISATION OF IMAGE SERIES Bonnet, Stephane Grangeat, Pierre
EP1521214 (EP04104611)	EP	(09/23/2004)	METHOD OF RECONSTRUCTING AN IMAGE WITH DATA ACQUISITION ACCORDING TO SEVERAL IMAGERY MODES AND SYNCHRONISATION OF IMAGE SERIES Bonnet, Stephane Grangeat, Pierre
(US10/955037)	US	(09/30/2004)	METHOD OF RECONSTRUCTING AN IMAGE WITH DATA ACQUISITION ACCORDING TO SEVERAL IMAGERY MODES AND SYNCHRONISATION OF IMAGE SERIES Bonnet, Stephane Grangeat, Pierre

Assignor represents, warrants and covenants that:

(1) Assignor has the full power and authority, and has obtained all third party consents, approvals and/or other authorizations required to enter into this Agreement and to carry out its obligations hereunder, including the assignment of the Patent Rights to Assignee; and

(2) Assignor owns, and by this document assigns to Assignee, all right, title, and interest to the Patent Rights, including, without limitation, all right, title, and interest to sue for infringement of the Patent Rights. Assignor has obtained and properly recorded previously executed assignments for the Patent Rights as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction. The Patent Rights are free and clear of all liens, claims, mortgages, security interests or other encumbrances, and restrictions. There are no actions, suits, investigations, claims or proceedings threatened, pending or in progress relating in any way to the Patent Rights. There are no existing contracts, agreements, options, commitments, proposals, bids, offers, or rights with, to, or in any person to acquire any of the Patent Rights.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

At the reasonable request of Assignee, Assignor will execute and deliver such other instruments and do and perform such other acts and things as may be necessary or desirable for effecting completely the consummation of the transactions contemplated hereby, including, without limitation, execution, acknowledgment, and recordation of other such papers, and using commercially reasonable efforts to obtain the same from the respective inventors, as necessary or desirable for fully perfecting and conveying unto Assignee the benefit of the transactions contemplated hereby.

The terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Grenoble on January 01, 2008.

CEA:

Commissariat à l'Energie Atomique

By: JEAN THERME
Name:
Title: Directeur de la Recherche Technologique
(Signature MUST be notarized)

Signature(s) certifiée(s) par l'un des membres de la S.C.P. titulaire d'un office notarial à Grenoble, 6 rue Denfert Rochereau.

Me Christian NOVEL - Notaire
Grenoble Cour d'Appel

Volkswagen Exhibit 1049, Page 11 of 12
Volkswagen v. Longhorn - IPR2025-01064

ATTESTATION

The undersigned witnessed the signature of [illegible] to the above Assignment of Patent Rights on behalf of **Commissariat à l'Energie Atomique** and makes the following statements:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.

2. [illegible] is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on JAN 08, 2008 to execute the above Assignment of Patent Rights on behalf of [Seller].

3. [illegible] subscribed to the above Assignment of Patent Rights on behalf of **Commissariat à l'Energie Atomique**.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

EXECUTED on [illegible] (date)

Print Name: [illegible]

Me Christian NOVEL - Notaire
Grenoble Cour d'Appel

signature(s) certifiée(s) par l'un des membres de la S.C.P. titulaire d'un office notarial
Grenoble, 6 rue Denfert Rochereau