

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

FORM PTO-1595  
1-31-92

PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

**RUAG Land Systems AG**

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):

Name: RUAG Schweiz AG

Address: Seetalstrasse 175  
CH-6032 Emmen, Switzerland

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

- Assignment
- Merger
- Security Agreement
- Change of Name
- Other \_\_\_\_\_

Execution Date: May 23, 2011

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

**U.S. Patent Application Serial No. 12/998,995**

**Filed: June 22, 2011**

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence should be mailed:

Name: Collard & Roe, P.C.

Internal Address: \_\_\_\_\_

Street Address: 1077 Northern Boulevard

City: Roslyn State: NY ZIP: 11576

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): ..... \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number: 03-2468

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Frederick J. Dorchak

Name of Person Signing

September 30, 2013

Date

**PATENT**

Total number of pages including cover sheet, attachments, and document: \_\_\_\_\_

REEL: 031358 FRAME: 0944

CH \$40.00 032468 12998995



## Commercial Register of the Canton of Lucerne - Main Register

Company no. CH-100.3.021.761-7	Legal status Joint public company	Entry date 24.09.1998	Cancellation	Transfer 785 22430/24717 from: to:	1
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## All entries

Entry	Canc.	Company	Ref.	Reg. office
30		RUAG Schweiz AG	1	Emmen
30		(RUAG Suisse SA) (RUAG Svizzera SA) (RUAG Switzerland Ltd)		

Ref.	Canc.	Share capital (CHF)	Paid-in share capital (CHF)	Share split	Ref.	Company address
39		112,200,000.00	112,200,000.00	112,200 registered shares with a value of CHF 1,000.00 each	1	Seetalstrasse 175 6032 Emmen

Entry	Canc.	Purpose	Ref.
39		Research and development, production, sale of and trade with as well as distribution and maintenance of all types of goods destined for military and civil use, in the area of air and space travel, missiles, anti-aircraft, all types of vehicles including armoured vehicles, mortar systems, light and heavy infantry weapon systems, ammunition systems, simulation and multimedia, training, leadership and communication, recycling and disposal of ammunition, explosives, refrigeration and electronic equipment, forming, machinery and applied surface finishing techniques to metal components and provision of services in these areas; in the interests of national defense, the company contributes to ensuring that the Armed Forces are equipped; Manufacture, processing and sale of products and installations of all types; Production of components for the mechanical engineering, paper, printing, energy, construction and related industries and for state authorities, including the manufacture and sale of railway equipment; Execution of contract manufacturing work of all types; Acquisition, monitoring, administration and sale of patents, brands and licenses; taking-up of loans and bonds, including for the granting of loans to companies therein she holds interests or group companies do business with; acquisition of interests in companies; acquisition of interests in companies; purchase, administration, encumbrance and sale of real property, performance of transactions in the interest of the group companies, particularly by participating in cash-pooling, thereby contributing to the funding of the group.	

Entry	Canc.	Comments	Ref.	Date of arts. of assoc.
1		The registered shares have limited transferability.	1	23.09.1998
35		Further address: Schaffhauserstrasse 580, 8052 Zurich.	1	16.06.1999
35		Further address: Industriezone Schächenwald, 6460, Altdorf.	4	26.04.2001
39		Notifications shall be in writing, by fax or by electronic mail.	25	26.05.2008
39		Further address: Stauffacherstrasse 65, 3000 Bern 22.	30	08.05.2009
39		Further address: Allmendstrasse 86, 3602 Thun.	32	28.05.2009
			35	10.06.2010
			39	23.05.2011

Entry	Canc.	Specific circumstances	Ref.	Official medium of publication
12		Transfers of Assets: The company, pursuant to the agreement of 02.06.2005, transfers assets of CHF 391,984.99 and liabilities (borrowed capital) of CHF 542,106.23 to RUAG Electronics, in Berne (CH-035.3.019.931-5). Consideration: CHF 49,878.76.	1	Swiss Official Gazette of Commerce (SOGC)
12		Transfers of Assets: The company, pursuant to the agreement of 02.06.2005, transfers assets of CHF 1,847,242.-- and liabilities (borrowed capital) of CHF 170,812.50 to RUAG IT Services, in Berne (CH-035.3.033.735-5). Consideration: CHF 1,676,429.50.		
1		To achieve the existing purpose upon its constitution, the company took-over, upon increasing its capital pursuant to the agreement for in-kind contributions of 27.05.1999, and the balance sheet of 01.01.1999 of the Swiss Confederation, the Federal Department of Defence, Civil Protection and Sport (DDPS), in Berne, the entire assets of CHF 327,043,688.94 and the entire borrowed capital of CHF 277,344,675.95 of its existing armament company SF Schweizerische Unternehmung für Flugzeuge und Systeme (including real property) at the price of CHF 49,699,012.99, for which 46,900 registered shares of 1,000 CHF were issued.		
17		Merger takeover of the assets and liabilities of Sun Aircraft Services SA, in Agno (CH-514.3.003.230-3), pursuant to the merger agreement of 21.06.2006 and the balance sheet of 31.12.2005. Assets of CHF 1,988,890.23 and liabilities (borrowed capital) of CHF 1,733,419.68 pass to the acquiring company. Given that the acquiring company holds all the shares of the transferring company, there was neither a capital increase nor an allocation of shares.		
17		Merger takeover of the assets and liabilities of Derendinger & Cie SA, in Plan-lez-Ouates (CH-660-0140975-0), pursuant to the merger agreement of 21.06.2006 and the balance sheet of 31.12.2005. Assets of CHF 39,911,011.00 and liabilities (borrowed capital) of CHF 42,399,903.00 pass to the acquiring company. Given that the same shareholder holds the entire shareholding in the companies involved in the merger, there was neither a capital increase nor an allocation of shares. In accordance with the confirmation of the specially qualified auditor, there is a subordination with a scope of the capital loss and the overindebtedness.		



PATENT

REEL: 031358 FRAME: 0912



Commercial Register of the Canton of Lucerne - Main Register

CH-100.3.021.761-7	RUAG Schweiz AG	Emmen	2
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All entries

17	<p>Merger: takeover of the assets and liabilities of Mecanex SA, in Nyon (CH-550-0107260-4), pursuant to the merger agreement of 21.06.2006 and the balance sheet of 31.12.2005. Assets of CHF 9,077,645.00 and liabilities (borrowed capital) of CHF 5,203,448.00 pass to the acquiring company. Given that the same shareholder holds the entire shareholding in the companies involved in the merger, there was neither a capital increase nor an allocation of shares.</p>
17	<p>Merger: takeover of the assets and liabilities of ASB Aircraft Service Bern-Belp AG, in Belp (CH-035.3.010.749-2), pursuant to the merger agreement of 21.06.2006 and the balance sheet of 31.12.2005. Assets of CHF 5,977,926.65 and liabilities (borrowed capital) of CHF 5,695,055.52 pass to the acquiring company. Given that the acquiring company holds all the shares of the transferring company, there was neither a capital increase nor an allocation of shares.</p>
17	<p>Merger: takeover of the assets and liabilities of HTS AG, in Wallisellen (CH-020.3.002.958-8), pursuant to the merger agreement of 21.06.2006 and the balance sheet of 31.12.2005. Assets of CHF 8,607,635.00 and liabilities (borrowed capital) of CHF 7,943,186.00 pass to the acquiring company. Given that the same shareholder holds the entire shareholding and participation certificates in the companies involved in the merger, there was neither a capital increase nor a share or participation certificate allocation.</p>
24	<p>Merger: takeover of the assets and liabilities of TSA Transairco SA, in Meyrin (CH-660-0305979-7), pursuant to the merger agreement of 26.05.2008 and the balance sheet of 31.12.2007. Assets of CHF 19,129,639.00 and liabilities (borrowed capital) of CHF 12,442,450.00 pass to the acquiring company. Given that the acquiring company holds all the shares of the transferring company, there was neither a capital increase nor an allocation of shares.</p>
31	<p>Transfers of Assets: RUAG Schweiz AG, pursuant to the agreement of 04.06.2009, transfers assets of CHF 111,133,626.43 and liabilities (borrowed capital) of CHF 66,133,626.43 to RUAG Real Estate AG, in Berne (CH-035.3.019.940-6). Consideration: none</p>
32	<p>Merger: takeover of the assets and liabilities of RUAG Components AG, in Schattdorf (CH-092.3.002.075-1), pursuant to the merger agreement of 28.05.2009 and the balance sheet of 31.12.2008. Assets of CHF 82,034,585.40 and liabilities (borrowed capital) of CHF 51,492,144.13 pass to the acquiring company. Capital increase of CHF 16,000,000.00 as a result of the merger. The sole shareholder of the transferring company receives 16,000 registered shares of the acquiring company with a value of CHF 1,000.00 each.</p>
35	<p>Merger: takeover of the assets and liabilities of RUAG Space AG, in Zurich (CH-020.3.022.462-5), pursuant to the merger agreement of 10.06.2010 and the balance sheet of 31.12.2009. Assets of CHF 192,068,051.00 and liabilities (borrowed capital) of CHF 149,844,873.00 pass to the acquiring company. Pursuant to the confirmation of the audit firm under official state supervision, declarations of subordination provided by creditors are available in the amount of the shortfall and the excess liabilities of the acquiring company. The sole shareholder of both companies receives as shareholder of the acquiring company 15,000 registered shares with a value of CHF 1,000.00 each. Capital increase of CHF 15,000,000.00 as a result of the merger.</p>
36	<p>By change of the agreement of transfers of assets of 04.06.2009, the assets have been revalued and transferred only of CHF 109,139,909.43 (and not CHF 111,133,626.43 pursuant to the amendment of transfers of assets of 04.06.2009) to RUAG Real Estate AG, in Berne (CH-035.3.019.940-6).</p>
36	<p>Transfers of Assets: RUAG Schweiz AG, pursuant to the agreement of 16.06.2010, transfers assets of CHF 13,744,320.00 and liabilities (borrowed capital) of CHF 3,744,320.00 to RUAG Real Estate AG, in Berne (CH-035.3.019.940-6). Counterperformance: none</p>
39	<p>Merger: takeover of the assets and liabilities of RUAG Land Systems AG, in Thun (CH-092.3.004.244-9), pursuant to the merger agreement of 23.05.2011 and the balance sheet of 31.12.2010. Assets of CHF 221,392,930.42 and liabilities (borrowed capital) of CHF 173,440,665.20 pass to the acquiring company. The sole shareholder of the transferring company receives 30,100 registered shares of the acquiring company with a value of CHF 1,000.00 each.</p>
39	<p>Merger: takeover of the assets and liabilities of RUAG Electronics AG, in Berne (CH-035.3.019.931-5), pursuant to the merger agreement of 23.05.2011 and the balance sheet of 31.12.2010. Assets of CHF 115,610,157.00 and liabilities (borrowed capital) of CHF 82,360,047.00 pass to the acquiring company. The sole shareholder of the transferring company receives 4,100 registered shares of the acquiring company with a value of CHF 1,000.00 each. Capital increase overall of CHF 34,200,000.00 as a result of the merger.</p>
40	<p>Transfers of Assets: The company, pursuant to the agreement of 25.05.2011, transfers assets of CHF 65,516,000.00 to RUAG Real Estate AG, in Berne (CH-035.3.019.940-6). Consideration: Credit for a loan receivable in the amount of CHF 65,516,000.00.</p>
49	<p>Transfers of Assets: The company, pursuant to the agreement of 15.06.2012, transfers assets of CHF 29,637,488.94 and liabilities (borrowed capital) of CHF 5,429,488.94 to RUAG Mechanical Engineering AG, in Schattdorf (CH-120.3.000.110-6). Consideration: 100 registered shares with a value of CHF 1,000.00 each and a loan receivable credit in the amount of CHF 13,900,000.00.</p>



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All entries

49	Transfers of Assets: The company, pursuant to the agreement of 15.06.2012, transfers assets of CHF 7,545,480.76 and liabilities (borrowed capital) of CHF 1,870,480.76 to RUAG Environment AG, in Schattdorf (CH-120.3.000.112-2). Consideration: 100 registered shares with a value of CHF 1,000.00 each and a loan receivable credit in the amount of CHF 2,630,000.00.
49	Transfers of Assets: The company, pursuant to the agreement of 15.06.2012, transfers assets of CHF 8,150,922.70 and liabilities (borrowed capital) of CHF 2,500,922.70 to RUAG Coatings AG, in Schattdorf (CH-120.3.000.113.8). Consideration: 100 registered shares with a value of CHF 1,000.00 each and a loan receivable credit in the amount of CHF 3,000,000.00.
49	Transfers of Assets: The company, pursuant to the agreement of 15.06.2012, transfers assets of CHF 5,405,213.63 and liabilities (borrowed capital) of CHF 1,920,213.63 to RUAG Automotive AG, in Schattdorf (CH-120.3.000.111-4). Consideration: 100 registered shares with a value of CHF 1,000.00 each and a loan receivable credit in the amount of CHF 1,700,000.00.

Entry	Canc.	Branch	Entry	Canc.	Branch
26		Meyrin (CH-660.6.252.008-3)			

Inits	Ref.	Journal no.	Journal date	SOGC	SOGC date	Page	Inits	Ref.	Journal no.	Journal date	SOGC	SOGC date	Page
LU	0		(Issue)		(Issue)		LU	28	1610	19.02.2009	38	25.02.2009	13/4897234
LU	1	2588	21.06.1999	127	05.07.1999	4520	LU	29	2971	15.04.2009	75	21.04.2009	11/4982402
LU	2	2523	09.06.2000	116	16.06.2000	4071	LU	30	4060	26.05.2009	103	02.06.2009	13/5044856
LU	3	1087	28.02.2001	45	06.03.2001	1665	LU	31	4585	10.06.2009	113	16.06.2009	16/5069826
LU	4	1996	30.04.2001	86	04.05.2001	3331	LU	32	5215	25.06.2009	124	01.07.2009	20/5104030
LU	5	1201	08.03.2002	51	14.03.2002	9/384712	LU	33	8985	12.11.2009	224	18.11.2009	10/5348942
LU	6	3272	09.07.2002	138	19.07.2002	14/560750	LU	34	284	11.01.2010	10	15.01.2010	9/5443044
LU	7	4064	03.09.2002	173	09.09.2002	8/632766	LU	35	4714	16.06.2010	118	22.06.2010	11/5686384
LU	8	245	14.01.2004	12	20.01.2004	10/2079652	LU	36	5091	28.06.2010	126	02.07.2010	17/5707780
LU	9	1812	15.04.2004	76	21.04.2004	10/2225708	LU	37	7575	13.10.2010	203	19.10.2010	10/5858500
LU	10	3175	06.07.2004	132	12.07.2004	11/2353512	LU	38	312	12.01.2011	12	18.01.2011	11/5990452
LU	11	1107	18.02.2005	39	24.02.2005	7/2717060	LU	39	3124	24.05.2011	103	27.05.2011	6180988
LU	12	3116	06.06.2005	111	10.06.2005	8/2876758	LU	40	3330	03.06.2011	110	08.06.2011	6196764
LU	13	4072	25.07.2005	146	29.07.2005	7/2955542	LU	41	4410	15.07.2011	139	20.07.2011	6264590
LU	14	5294	13.10.2005	203	19.10.2005	9/3066580	LU	42	5269	31.08.2011	171	05.09.2011	6321834
LU	15	1485	02.03.2006	47	08.03.2006	10/3277808	LU	43	7128	14.11.2011	224	17.11.2011	6420652
LU	16	2357	21.04.2006	81	27.04.2006	8/3351746	LU	44	8156	23.12.2011	253	29.12.2011	6483622
LU	17	3610	23.06.2006	124	29.06.2006	11/3439646	LU	45	722	27.01.2012	22	01.02.2012	6529186
LU	18	4286	24.07.2006	145	28.07.2006	8/3487954	LU	46	1278	21.02.2012	39	24.02.2012	6567595
LU	19	1293	02.03.2007	47	08.03.2007	11/3817772	LU	47	2027	26.03.2012	63	29.03.2012	6616568
LU	20	3412	27.06.2007	126	03.07.2007	12/4004958	LU	48	2515	16.04.2012	76	19.04.2012	6644666
LU	21	3741	12.07.2007	137	18.07.2007	11/4030450	LU	49	4241	20.06.2012	121	25.06.2012	6734596
LU	22	4933	20.09.2007	186	26.09.2007	11/4127340	LU	50	3834	23.08.2012	166	28.08.2012	6826026
LU	23	819	13.02.2008	34	19.02.2008	9/4345500	LU	51	6116	04.09.2012	174	07.09.2012	6839138
LU	24	2807	28.05.2008	105	03.06.2008	11/4503202	LU	52	1318	26.02.2013	42	01.03.2013	7086172
LU	25	3359	23.06.2008	123	27.06.2008	12/4546490	LU	53	2029	22.03.2013	60	27.03.2013	7123602
LU	26	3932	15.07.2008	139	21.07.2008	10/4582588	LU	54	4856	11.07.2013	135	16.07.2013	979685
LU	27	4563	21.08.2008	165	27.08.2008	12/4626420							

Entry	Ch.	Canc.	Personal Data	Function	Signing authority
	15		Kicner, Urs, of Hasle near Burgdorf, domiciled in Wengi	Member	Collective signature for two
	23		PricewaterhouseCoopers Ltd, domiciled in Berne (CH-035.9.019.917-2)	Audit	Collective signature for two
33	33		Guggenbach, Dr. Peter, of Zurich, domiciled in Samen		Collective signature for two
			Hans, Dr. Peter, German citizen, domiciled in Bachenbülach		Collective signature for two
33	33		Loeliger, Paul, of Münchenstein, domiciled in Münchenstein		Collective signature for two
33	33		Murer, Hans Jörg, of Beckenried, domiciled in Beckenried		Collective signature for two
			Scherrer, Peter, of Mosnang, domiciled in St. Gallen		Collective signature for two
			Spiess, Roland, of Tuggen, domiciled in Altdorf UR		Collective signature for two
			Walker, Edgar, of Schattdorf, domiciled in Altdorf UR		Collective signature for two
	33		Wildi, Dr. Jürg, of Sutz, domiciled in Menziken		Collective signature for two
35			Dirren, Marco, of Bürchen, domiciled in Risch		Collective signature for two
35			Schiewe, Oliver, German citizen, domiciled in Winterthur		Collective signature for two
37			Hadorn, Patrick, of Toffen, domiciled in Buchrain		Collective signature for two
38			Bühlmann Martin, of Bonstetten, domiciled in Kilchberg ZH		Collective signature for two
38			Büsser, Martin, of Arden, domiciled in Stansstad		Collective signature for two



PATENT

REEL: 031358 FRAME: 0914



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CH-100.3.021.761-7	RUAG Schweiz AG	Emmen	4
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All entries

38		Clavadetscher, Gian-Matthias, of Malans, domiciled in Ennetbürgen		Collective signature for two
38		Jezler, Stephan, of Schaffhausen, domiciled in Gansingen		Collective signature for two
38		Müller, Alexander, German citizen, domiciled in Thierhaupten (Germany)		Collective signature for two
38	39	Scholl, Heinz, of Amriswil, domiciled in Horw		Collective signature for two
	39	Berner, Philipp Marc, of Schafisheim, domiciled in Kilchberg ZH		Collective signature for two
39		Schulze, Frank, German citizen, domiciled in Hünenberg		Collective signature for two
39		Berger, Andreas, of Linden, domiciled in Basel		Collective signature for two
39		Cotarelo Campos, Marcos, of Grafschaft, domiciled in Thierachern		Collective signature for two
39		Hexspoor, Marc Alexander, of Rudolfstetten-Friedlisberg, domiciled in Bassersdorf		Collective signature for two
39		Hürlimann, Theodor, of Walchwil, domiciled in Steffisburg		Collective signature for two
39		Machere, Benoît, of Fribourg and Autigny, domiciled in Avry		Collective signature for two
39	39	Mamin, Pascal, of La Tour-de-Peilz, domiciled in Berne	Member and Secretary	Collective signature for two
		Kopp, Thomas, of Niederönz, domiciled in Aeschi near Spiez		Collective signature for two
42		Sattler, Michael, German citizen, domiciled in Binzen (Germany)		Collective signature for two
44		Ivorra Grosse, Marie-Thérèse, of Onex, domiciled in Lonay		Collective signature for two
44		Manzoni Didier, of Villmergen, domiciled in Villmergen		Collective signature for two
44		Neff, Roland, of Winterthur, domiciled in Seuzach		Collective signature for two
44		Schwander, Jean-Pierre, of Eptingen, domiciled in Rüdlingen		Collective signature for two
45		von Saldern, Philipp Siverd Botho, German citizen, domiciled in Illnau-Effretikon		Collective signature for two
46		Wüthrich, Heinz, of Trub, domiciled in Glarus Süd		Collective signature for two
47		Wentscher, Dr. Holger Gerd Peter, German citizen, domiciled in Zurich		Collective signature for two
48		Huber, Rolf, of Nebikon, domiciled in Dietlikon		Collective signature for two
50		Baumann, Werner, of Wassen, domiciled in Altdorf UR		Collective signature for two
50	52	Meyer, Oliver, of Roggwil BE, domiciled in Roggwil BE		Collective signature for two
		Petzold, Dr. Thomas, German citizen, domiciled in Küssnacht SZ		Joint procurator for two
52		Schlegel, Esther, of Giebenach, domiciled in Meilen		Collective signature for two
52	54	Strässle, Marco, of Kirchberg SG, domiciled in Thalwil	President	Collective signature for two
		Breitmaier, Urs, called Breitmeier, of Zurich, domiciled in Uetendorf		Collective signature for two

Lucerne, 09.08.2013 11:39 HUB

Remark: This extract has no validity unless it is accompanied by the appended authentication stamp.  
 This extract contains all of the currently valid entries for this company. Earlier circumstances already deleted and any previous journal entries and SOGC notifications are shown only for previous entries in the main register (company register).



AUTHENTICATED  
 09<sup>th</sup> Aug. 2013  
 COMMERCIAL REGISTER  
 OF THE CANTON OF LUCERNE  
 [Signature]

**LEGALIZATION**

Errol M. Küffer, notary public of the Canton of Berne (Switzerland),  
registered in the register of the notaries public of the Canton of Berne, with office at Berne,

certifies:

The present document (containing 2 sheets) is the translation of the valid extract of the Commercial Register of the Canton of Lucerne of 9<sup>th</sup> August 2013, in German language, which has been presented to him.

Certified at the office of the notary public on the fourteenth of August two thousand and thirteen.

14<sup>th</sup> August 2013



The notary public:

A handwritten signature in black ink, appearing to read "Errol M. Küffer". The signature is written over a horizontal line and is partially enclosed by a large, loopy flourish that extends downwards and to the left.

