

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ABB Research Ltd.	06/12/2009
RECEIVING PARTY DATA	
Name:	Drakar Toule Ltd., Limited Liability Company
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City:	Wilmington
State/Country:	DELAWARE
Postal Code:	19808
PROPERTY NUMBERS Total: 10	
Property Type	Number
Patent Number:	6760639
Patent Number:	7013411
Patent Number:	7100093
Patent Number:	6701209
Patent Number:	7127312
Patent Number:	7206968
Patent Number:	7200774
Patent Number:	7246265
Application Number:	10923093
Patent Number:	6633900
CORRESPONDENCE DATA	
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OP \$400.00 6760639

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NAME OF SUBMITTER:	Tracy Meeker
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Total Attachments: 5
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ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, ABB Research Ltd., a Swiss corporation with company number CH-020.3.900.114.6, with an office at Affolternstrasse 44, CH-8050 Zurich, Switzerland ("**Assignor**"), does hereby sell, assign, transfer, and convey unto Drakar Toule Ltd., Limited Liability Company, a Delaware limited liability company, with an address at 2711 Centerville Rd, Ste 400, Wilmington, DE 19808, United States of America ("**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 claims priority, or (II) for which any of the Patents directly forms a basis for priority;

(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 counterparts to any of the foregoing categories (a) through (c), including without limitation utility models and certificates of invention;

(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) that (I) are included in any claim in the Patents, (II) are subject matter capable of being reduced to a patent claim in a reissue or reexamination proceedings brought on any of the Patents, and/or (III) could have been included as a claim in any of the Patents and all other rights, analogous to patents, utility models and certificates of invention, 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 that correspond 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).

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
DE30009310 (DE05009310)	DE	1/19/2005 (1/29/2000)	SYSTEM AND METHOD FOR DETERMINING THE OVERALL EQUIPMENT EFFECTIVENESS OF PRODUCTION PLANTS, FAILURE EVENTS AND FAILURE CAUSES KALLELA JARI; VOLLMAR GERHARD; GREULICH MANUEL; MILANOVIC RAIKO
FR1250632 (FR00906247.2)	FR	1/19/2005 (1/29/2000)	SYSTEM AND METHOD FOR DETERMINING THE OVERALL EQUIPMENT EFFECTIVENESS OF PRODUCTION PLANTS, FAILURE EVENTS AND FAILURE CAUSES KALLELA JARI; VOLLMAR GERHARD; GREULICH MANUEL; MILANOVIC RAIKO
GB1250632 (GB00906247.2)	GB	1/19/2005 (1/29/2000)	SYSTEM AND METHOD FOR DETERMINING THE OVERALL EQUIPMENT EFFECTIVENESS OF PRODUCTION PLANTS, FAILURE EVENTS AND FAILURE CAUSES KALLELA JARI; VOLLMAR GERHARD; GREULICH MANUEL; MILANOVIC RAIKO
IT1250632 (IT00906247.2)	IT	1/19/2005 (1/29/2000)	SYSTEM AND METHOD FOR DETERMINING THE OVERALL EQUIPMENT EFFECTIVENESS OF PRODUCTION PLANTS, FAILURE EVENTS AND FAILURE CAUSES KALLELA JARI; VOLLMAR GERHARD; GREULICH MANUEL; MILANOVIC RAIKO
NL1250632 (NL00906247.2)	NL	1/19/2005 (1/29/2000)	SYSTEM AND METHOD FOR DETERMINING THE OVERALL EQUIPMENT EFFECTIVENESS OF PRODUCTION PLANTS, FAILURE EVENTS AND FAILURE CAUSES KALLELA JARI; VOLLMAR GERHARD; GREULICH MANUEL; MILANOVIC RAIKO
CH1250632 (CH00906247.2)	CH	1/19/2005 (1/29/2000)	SYSTEM AND METHOD FOR DETERMINING THE OVERALL EQUIPMENT EFFECTIVENESS OF PRODUCTION PLANTS, FAILURE EVENTS AND FAILURE CAUSES KALLELA JARI; VOLLMAR GERHARD; GREULICH MANUEL; MILANOVIC RAIKO
6,760,639 (10/209,383)	US	7/6/2004 (7/29/2002)	SYSTEM AND METHOD FOR DETERMINING THE EFFECTIVENESS OF PRODUCTION INSTALLATIONS, FAULT EVENTS AND THE CAUSES OF FAULTS Kallela, Jari; Vollmar, Gerhard; Greulich, Manuel; Milanovic, Ralko
DE50002501 (DE20005002501)	DE	7/1/2004 (1/29/2000)	METHOD FOR AUTOMATIC FAULT TREE SYNTHESIS KALLELA JARI; VOLLMAR GERHARD; SZOEKE SZANISZLO
EP1252556 (FR00918736.0)	FR	6/4/2003 (1/29/2000)	METHOD FOR AUTOMATIC FAULT TREE SYNTHESIS KALLELA JARI; VOLLMAR GERHARD; SZOEKE SZANISZLO
EP1252556 (GB00918736.0)	GB	4/6/2003 (1/29/2000)	METHOD FOR AUTOMATIC FAULT TREE SYNTHESIS KALLELA JARI; VOLLMAR GERHARD; SZOEKE SZANISZLO
7,013,411 (10/209,384)	US	3/14/2006 (7/29/2002)	METHOD FOR THE AUTOMATED GENERATION OF A FAULT TREE STRUCTURE Kallela, Jari; Vollmar, Gerhard; Szoke, Szaniszló
CN20008018695	CN	1/29/2000	METHOD FOR THE AUTOMATED DETECTION OF FAILURE EVENTS KALLELA J; VOLLMAR G; SZEKE S
DE50013070 (DE20005013070)	DE	7/12/2007 (1/29/2000)	METHOD FOR THE AUTOMATED DETECTION OF FAILURE EVENTS KALLELA JARI; VOLLMAR GERHARD; SZOEKE SZANISZLO
7,100,093 (10/209,382)	US	8/29/2006 (7/29/2002)	METHOD FOR THE AUTOMATED DETERMINATION OF FAULT EVENTS Kallela, Jari; Vollmar, Gerhard; Szoke, Szaniszló
DE50013073 (DE20005013073)	DE	7/12/2007 (3/21/2000)	SYSTEM AND METHOD FOR DETERMINING THE OPTIMAL OPERATING SPEED OF A PRODUCTION MACHINE SZOEKE SZANISZLO; VOLLMAR GERHARD
EP1266270 (FR00920522.0)	FR	6/21/2006 (3/21/2000)	SYSTEM AND METHOD FOR DETERMINING THE OPTIMAL OPERATING SPEED OF A PRODUCTION MACHINE SZOEKE SZANISZLO; VOLLMAR GERHARD

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
EP1266270 (GB00920622.0)	GB	6/21/2006 (3/21/2000)	SYSTEM AND METHOD FOR DETERMINING THE OPTIMAL OPERATING SPEED OF A PRODUCTION MACHINE SZOEKE SZANISZLO; VOLLMAR GERHARD
6,701,209 (10/262,321)	US	3/2/2004 (9/23/2002)	SYSTEM AND METHOD FOR ASCERTAINING THE OPTIMUM OPERATING SPEED OF A PRODUCTION MACHINE Szoke, Szaniszló; Vollmar, Gerhard
DE50014375 (EP1269358)	DE	5/30/2007 (4/1/2000)	METHOD AND SYSTEM FOR RECORDING AND SAVING DATA FROM A PRODUCTION PLANT SZOEKE SZANISZLO; VOLLMAR GERHARD
EP1269358 (FR00926791.5)	FR	5/30/2007 (4/1/2000)	METHOD AND SYSTEM FOR RECORDING AND SAVING DATA FROM A PRODUCTION PLANT SZOEKE SZANISZLO; VOLLMAR GERHARD
EP1269358 (GB00926791.5)	GB	5/30/2007 (4/1/2000)	METHOD AND SYSTEM FOR RECORDING AND SAVING DATA FROM A PRODUCTION PLANT SZOEKE SZANISZLO; VOLLMAR GERHARD
EP1269358 (EP00926791.5)	IT	5/30/2007 (4/1/2000)	METHOD AND SYSTEM FOR RECORDING AND SAVING DATA FROM A PRODUCTION PLANT SZOEKE SZANISZLO; VOLLMAR GERHARD
7,127,312 (10/262,145)	US	10/24/2006 (10/1/2002)	METHOD AND SYSTEM FOR ACQUIRING AND STORING DATA FROM A PRODUCTION PLANT Szoke, Szaniszló; Vollmar, Gerhard
EP00951432.4	EP	07/22/2000	SYSTEM AND METHOD FOR GENERATING AN XML-BASED ERROR MODEL VOLLMAR, Gerhard, HU, Zaijun, KALLELA, Jari, GREULICH, Manuel
7,206,988 (10/349,395)	US	4/17/2007 (1/22/2003)	SYSTEM AND METHOD FOR GENERATING AN XML-BASED FAULT MODEL Gerhard Vollmar, Meckenheim, (DE)
DE50014349 (EP1303797)	DE	5/23/2007 (7/22/2000)	SYSTEM FOR SUPPORT OF AN ERROR CAUSE ANALYSIS VOLLMAR GERHARD (DE); HU ZAIJUN (DE); KALLELA JARI (FI); GREULICH MANUEL (DE)
EP1303797 (GB00949399.0)	GB	5/23/2007 (7/22/2000)	SYSTEM FOR SUPPORT OF AN ERROR CAUSE ANALYSIS VOLLMAR GERHARD (DE); HU ZAIJUN (DE); KALLELA JARI (FI); GREULICH MANUEL (DE)
7,200,774 (10/349,394)	US	4/3/2007 (1/22/2003)	SYSTEM AND METHOD FOR SUPPORTING A FAULT CAUSE ANALYSIS VOLLMAR GERHARD (DE); HU ZAIJUN (DE); KALLELA JARI (FI); GREULICH MANUEL (DE)
DE10146901.2	DE	9/24/2001	METHOD AND SYSTEM FOR PROCESSING FAULT HYPOTHESES VOLLMAR GERHARD (DE); HU ZAIJUN (DE); KABORE POUSGA (DE)
EP02777189.8	EP	9/24/2002	METHOD AND SYSTEM FOR PROCESSING FAULT HYPOTHESES VOLLMAR GERHARD (DE); HU ZAIJUN (DE); KABORE POUSGA (DE)
7,248,266 (10/811,472)	US	7/17/2007 (3/24/2004)	METHOD AND SYSTEM FOR AUTOMATICALLY VERIFYING FAULT HYPOTHESES PREDETERMINED BY A USER VOLLMAR GERHARD (DE); HU ZAIJUN (DE); KABORE POUSGA (DE)
CN1647485 (CN0380891.1.4)	CN	02/21/2003	Communication method and system
US2006-138120 (US 10/923093)	US	02/21/2003	Communication method and system
CA2313112 (CA19992313112)	CA	4/11/2006 (1/8/1999)	MOBIL CREW MANAGEMENT SYSTEM FOR DISTRIBUTING WORK ORDERS TOMOBILE FIELD UNITS KHALESSI AMIR; ARDALAN SASAN H
EP89803024.0 (EP1046244)	EP	1/8/1999	MOBILE CREW MANAGEMENT SYSTEM KHALESSI AMIR; ARDALAN SASAN
MX216005 MX0006655	MX	1/8/1999	MOBILE CREW MANAGEMENT SYSTEM FOR DISTRIBUTING WORK ORDER ASSIGNMENTS TO MOBILE FIELD CREW UNITS

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6,633,900 (09/509,100)	US	10/14/2003 (1/8/1999)	Khalessi, Amir; Ardalan, Sasan H. MOBILE CREW MANAGEMENT SYSTEM FOR DISTRIBUTING WORK ORDER ASSIGNMENTS TO MOBILE FIELD CREW UNITS Khalessi, Amir; Ardalan, Sasan H.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models 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.

Assignor will, at the reasonable request of Assignee, 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. For inventors that are no longer employed by Assignor or by any of Assignor's Affiliates at the time of Assignee's request, Assignor's obligation shall be limited to reasonable efforts to provide Assignee with contact information in Assignor possession for such inventors, to the extent not restricted by applicable laws and regulations. Assignee shall reimburse all related Assignor's reasonable expenses in complying with such requests, provided that such expenses are pre-approved by Assignee.

This Assignment is not intended to confer any right or benefit on any third party (including, but not limited to, any employee or beneficiary of any party), and no action may be commenced or prosecuted against a party by any third party claiming as a third-party beneficiary of this Assignment. For the purposes of the foregoing sentence a third party does not include a successor, assign or legal representative of Assignor or Assignee.

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 Zürich on 12 June 09

Assignor:

ABB RESEARCH LTD.

By: *Peter Terwiesch*
Name: PETER TERWIESCH
Title: GROUP CTO

By: *Beat Weibel*
Name: BEAT WEIBEL
Title: GROUP IP COUNSEL

Assignee:

DRAKAR TOULE LTD., LIMITED
LIABILITY COMPANY

By: *Pat Mathews*
Name: Pat Mathews
Title: Authorized Person

(Assignor Signature MUST be attested)

ATTESTATION, *Beat Weibel*

The undersigned witnessed the signature of *Peter Terwiesch* to the above Assignment of Patent Rights on behalf of ABB Research Ltd. and makes the following statements:


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.

Peter Terwiesch / Beat Weibel personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on *12 June*, 2009 to execute the above Assignment of Patent Rights on behalf of ABB Research Ltd.

Peter Terwiesch / Beat Weibel subscribed to the above Assignment of Patent Rights on behalf of ABB Research Ltd.

I declare under penalty of perjury under the laws of Switzerland that the foregoing is true and correct.

EXECUTED on *12. June 09* (date)


Print Name: CHRISTINE HÜLSERMANN