PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3184893

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHAN ÅKERBERG	01/08/2015
LINUS THRYBOM	01/07/2015

RECEIVING PARTY DATA

Name:	ABB RESEARCH LTD
Street Address:	AFFOLTERNSTRASSE 44
City:	ZÜRICH
State/Country:	SWITZERLAND
Postal Code:	CH-8050

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14414032

CORRESPONDENCE DATA

Fax Number: (703)205-8050

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 703-205-8000

Email: tu.t.tan@bskb.com, mailroom@bskb.com
Correspondent Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Address Line 1: P.O. BOX 747

Address Line 4: FALLS CHURCH, VIRGINIA 22040-0747

ATTORNEY DOCKET NUMBER:	6046-0220PUS1	
NAME OF SUBMITTER:	TAN TU	
SIGNATURE:	/Tu T. Tan/	
DATE SIGNED:	01/14/2015	

Total Attachments: 2

source=assignment#page1.tif source=assignment#page2.tif

PATENT 503138282 REEL: 034729 FRAME: 0068

BIRCH, STEWART, KOLASCH & BIRCH, LLP

United States Patent Rights, or United States Plus all Poreign Patent Rights

ASSIGNMENT

Application No:	14/414,032	Filed:	01/09/2015	
1900				
Disect Name(s	WHEREAS, Johan ÅKE			
investios(s)	(hereinafter designated	as the undersigned) h	as (bave) invented certain new and useful	improvements in:
insert Title of invention	METHODS AND DEVI	CES FOR SECURITY	KEY RENEWAL IN A COMMUNICATIO	N SYSTEM
	for which an applicat undersigned (except in	ion for Letters Pater the case of a provision	at of the United States of America has nal-application)	been executed by the
insert Date of Signing of Appin	on January	07, 2015 and Januar	y 08, 2015	; and
Irsert Name of Assigner	WHEREAS, ABB RESE	ARCH LTD		
insert Additses of Assignee	of Affolternstrasse 44, C	∃H-8050 ZÜRICH, Sw	itzerland,	
		ht, title and interest in	d assigns (hereinafter designated as the , and to said invention and in and to any Lanerica and	
Check itox if Appropriate	in any foreign cou	ntries.		
	undersigned has (have) unto said Assignee the territories, dependencial Patent(s) which may be possessions, and if the	sold, assigned and tra e full and exclusive a es and possessions and be granted therefor in box above is designat	consideration, the receipt of which is her insferred, and by these presents does (do) right to the said invention in the United d the entire right, title and interest in an the United States of America, its territored, in any and all foreign countries; and in insions thereof for the full term or terms in	sell, assign and transfer I States of America, its id to any and all Letters ories, dependencies and to any and all divisions,

Attorney Docket No.: 6046-0220PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 275-4-68	Name of Inventor	Shen Alloy)
Date 2015-01-07	Name of	(Signature) Johan ÅKERBERG
	Name of	(Signature) Linus THRYBOM
Date	Inventor Name of	(Signature)
Date	Inventor	(Signature)
Date	Name of Inventor	(Signature)

BIRCH, STEWART, KOLASCH & BIRCH, LUP

Page 2

BSEB-ASSIGN-SINGLE (09-12) PCL/FCL/tdv