

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4309036

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	HITACHI APPLIANCES, INC.	12/14/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	JOHNSON CONTROLS-HITACHI AIR CONDITIONING TECHNOLOGY (HONG KONG) LIMITED	
<b>Street Address:</b>	12/F OCTA TOWER, 8 LAM CHAK ST	
<b>City:</b>	KOWLOON BAY KLN	
<b>State/Country:</b>	HONG KONG	
<b>PROPERTY NUMBERS Total: 4</b>		
	<b>Property Type</b>	<b>Number</b>
	Patent Number:	8786155
	Patent Number:	8836192
	Patent Number:	8937422
	Patent Number:	6690137
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(202)628-8844	
<i>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.</i>		
<b>Phone:</b>	202-624-2500	
<b>Email:</b>	afield@crowell.com	
<b>Correspondent Name:</b>	CROWELL & MORING LLP	
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<b>ATTORNEY DOCKET NUMBER:</b>	108256.05026US	
<b>NAME OF SUBMITTER:</b>	MICHAEL H. JACOBS	
<b>SIGNATURE:</b>	/Michael H. Jacobs/	
<b>DATE SIGNED:</b>	03/08/2017	
<b>Total Attachments: 2</b>		
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## ASSIGNMENT

**Hitachi Appliances, Inc.** (hereinafter "Assignor") is an owner of record of the U.S. Patents listed in Schedule A attached hereto by virtue of assignments recorded in the U.S. Patent and Trademark Office; and

WHEREAS, **Johnson Controls-Hitachi Air Conditioning Technology (Hong Kong) Limited** (hereinafter "Assignee"), of 12/F Octa Tower, 8 Lam Chak St, Kowloon Bay KLN, HONG KONG, is desirous of acquiring assignor's share of the entire right, title, and interest in and to the said patents and inventions and in and to any Letters Patent issuing therefrom in any form or embodiment thereof;

NOW, THEREFOR, for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignor, as the legal and beneficial owner, does hereby sell and assign to the Assignee, its successors and assigns, its share of the entire right, title, and interest in and to said applications and inventions, and in and to any said Letters Patent, once issued, and all the rights, powers, liberties, and immunities conferred on the Assignor by the grant of the Patents, including rights to sue for damages and other remedies in respect of any infringement of the Patents, which may have occurred prior to the date hereof, and the right to recover for all past infringement; and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and the Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for said inventions, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee.

IN WITNESS WHEREOF, Assignor has caused this Assignment to be duly executed by its authorized representative on the date set forth below.

**HITACHI APPLIANCES, INC.**

By: 梁永祥光

Printed Name: Yoshiteru FUKAMIZU

Title: General Manager  
Corporate Planning Office  
(Authorized Signing Officer)

Date: December 14, 2016

**SCHEDULE A**

U.S. Patents

- 1. 8,786,155 (13/210,468)**
- 2. 8,836,192 (12/979,568)**
- 3. 8,937,422 (12/909,875)**
- 4. 6,690,137 (10/053,694)**