

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LITLE & CO.	07/12/2017
RECEIVING PARTY DATA		
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PROPERTY NUMBERS Total: 1		
Property Type	Number	
Patent Number:	8892468	
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DATE SIGNED:	07/14/2017	
Total Attachments: 4		
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ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Litle & Co. a Delaware corporation with an office at 900 Chelmsford Street, Lowell, Massachusetts 01851 ("*Assignors*"), do hereby sell, assign, transfer, and convey unto Vantiv, LLC, a Delaware corporation with an address at 8500 Governors Hill Drive, Cincinnati, Ohio 45249 ("*Assignee*"), 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*");

1. All patent applications and patents listed in Exhibit 1 (the "*Patents*") attached hereto, which Exhibit 1 is hereby incorporated by reference into this agreement in its entirety;
2. All provisionals, continuations, divisionals, continuations-in-part, reissues, reexaminations, extensions, substitute applications, continuing prosecution applications, requests for continuing examinations, utility models, design patents, invention certificates, and registrations of the Patents, and all patents and patent applications to which any of the Patents directly or indirectly claim priority, and all patents and patent applications for which any of the Patents directly or indirectly forms a basis for priority; and
3. All foreign patents, patent applications, and counterparts relating to the Patents.

Assignors hereby authorize 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.

Assignors will, at the request and expense of Assignee, do all things reasonably necessary, proper, or advisable, including without limitation, the execution, delivery, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents, to assist Assignee in obtaining and perfecting the Patent Rights.

Assignors further assign to Assignee all rights to collect royalties or other payments under or on account of the Patents as well as all causes of action (whether known or unknown) and other enforcement rights based on, under or on account of the Patents, including, without limitation, all causes of action and other enforcement rights for damages, injunctive relief, and any other remedies of any kind for past, current and future infringement of such Patents. Assignee shall have with no obligation to account to Assignors in relation to any such royalties, payments, damages or other remedies.

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 Assignors, their respective successors, assigns, and other legal representatives.

[Signature Pages Follow]

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand on this 12th day of July, 2016. 2017

**ASSIGNOR:
LITTLE & CO.**

By: Z. Ly L.
Name: Naomi Voeghi
Title: Chief IP Counsel

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand on this 12th day of July, 2016. 2017

ASSIGNEE:
VANTIV, LLC.

By: [Signature]
Name: Marina Vosti
Title: Chief IP Counsel

EXHIBIT 1

PATENT NO. or SERIAL NO.	COUNTRY	ISSUE DATE And/or FILING DATE	PATENT TITLE and INVENTOR(S)
8,892,468	U.S.	Issued 11/8/2014	CUSTOMER REFUNDS BY A MERCHANT AGENT Inventor: Thomas J. Little