

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5444042

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the DOCUMENT DATE OF THE SIGNATURE BY THE INVENTOR previously recorded on Reel 048531 Frame 0615. Assignor(s) hereby confirms the ASSIGNMENT.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NAO ITABASHI	08/08/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BROTHER KOGYO KABUSHIKI KAISHA
<b>Street Address:</b>	15-1 NAESHIRO-CHO, MIZUHO-KU
<b>City:</b>	NAGOYA-SHI, AICHI-KEN
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	467-8561
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16295531
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(612)332-9081
<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>Email:</b>	dlizama@merchantgould.com
<b>Correspondent Name:</b>	E. JOSEPH GESS
<b>Address Line 1:</b>	P.O. BOX 2903
<b>Address Line 2:</b>	MERCHANT & GOULD PC
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402-0903
<b>ATTORNEY DOCKET NUMBER:</b>	04492.0187FPC2
<b>NAME OF SUBMITTER:</b>	E. JOSEPH GESS
<b>SIGNATURE:</b>	/E. Joseph Gess/
<b>DATE SIGNED:</b>	03/27/2019
<b>Total Attachments: 4</b>	
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<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NAO ITABASHI	08/12/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BROTHER KOGYO KABUSHIKI KAISHA
<b>Street Address:</b>	15-1 NAESHIRO-CHO, MIZUHO-KU
<b>City:</b>	NAGOYA-SHI, AICHI-KEN
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	467-8561
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16295531

**CORRESPONDENCE DATA****Fax Number:** (612)332-9081**Email:** dlizama@merchantgould.com

*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.*

**Correspondent Name:** E. JOSEPH GESS**Address Line 1:** P.O. BOX 2903**Address Line 2:** MERCHANT & GOULD PC**Address Line 4:** MINNEAPOLIS, MINNESOTA  
55402-0903**ATTORNEY DOCKET NUMBER:** 04492.0187FPC2**NAME OF SUBMITTER:** MARK L. GLEASON**Signature:** /Mark L. Gleason/**Date:** 03/07/2019

**Total Attachments: 1**  
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**RECEIPT INFORMATION****EPAS ID:** PAT5410009**Receipt Date:** 03/07/2019



**ASSIGNMENT**

(1-8) Insert Name(s) of Inventor(s)

(1) Nao ITABASHI (5) \_\_\_\_\_  
 (2) \_\_\_\_\_ (6) \_\_\_\_\_  
 (3) \_\_\_\_\_ (7) \_\_\_\_\_  
 (4) \_\_\_\_\_ (8) \_\_\_\_\_

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee (9) BROTHER KOGYO KABUSHIKI KAISHA  
 (10) Insert Address of Assignee (10) 15-1 Naeshiro-cho, Mizuho-ku, Nagoya, Aichi, 467-8561, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification of Invention such as Title, Case Number, or Foreign Application Number (11) CARTRIDGE HAVING DETECTION BODY  
 (Attorney Docket No. \_\_\_\_\_)

for which the undersigned has (have) executed an application for patent in the United States of America

(12) Insert Date of Signing of Application (12) on Aug. 8, 2012

(13) Alternative Identification for filed applications (13) U.S. application Serial Number 16/295,531  
 filed March 7, 2019

1) The undersigned agree(s) to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict herewith.

6) The undersigned hereby grant(s) the firm of **Banner & Witcoff, LTD** 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 United States Patent and Trademark Office for recordation of this document.

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

Date	<u>Aug. 8, 2012</u>	Name of Inventor	<u>Nao Itabashi</u> Nao ITABASHI	(SEAL)
Date	_____	Name of Inventor	_____	(SEAL)
Date	_____	Name of Inventor	_____	(SEAL)
Date	_____	Name of Inventor	_____	(SEAL)
Date	_____	Name of Inventor	_____	(SEAL)
Date	_____	Name of Inventor	_____	(SEAL)

**PATENT**