

## PATENT ASSIGNMENT

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CONVEYING PARTY DATA	
Name	Execution Date
Sharp Kabushiki Kaisha	11/01/2012
RECEIVING PARTY DATA	
Name:	Merck Patent GmbH
Street Address:	Frankfurter Strasse 250
City:	Darmstadt
State/Country:	GERMANY
Postal Code:	D-64293
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	7169449
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PATENT - US

**GREER, BURNS & CRAIN, LTD.**  
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## **PATENT ASSIGNMENT**

WHEREAS, **SHARP KABUSHIKI KAISHA**, a corporation of Japan, whose address is 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan (hereinafter "**SHARP**"), is a non-exclusive owner by assignment of U.S. Patent No. 7,169,449, issued January 30, 2007.

WHEREAS, **MERCK PATENT GmbH**, a corporation of Germany, whose address is Frankfurter Strasse 250, D-64293 Darmstadt, Germany (hereinafter "**MERCK**"); is another co-owner of U.S. Patent No. 7,169,449, and is desirous of acquiring the entire right, title and interest in, to and under U.S. Patent No. 7,169,449.

NOW, THEREFORE, in consideration of and in exchange for the sum of One Dollar (\$1.00) to **SHARP** in hand paid by **MERCK** and other good and valuable consideration, the receipt of which is hereby acknowledged, **SHARP** has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over, to **MERCK**, all of **SHARP**'S interest in U.S. Patent No. 7,169,449, and any reissues thereof, the same to be held and enjoyed by **MERCK** for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or legal representatives, to the end of the term or terms for which the said patent is or may be granted or reissued.

IN WITNESS WHEREOF, **SHARP** has caused this Patent Assignment to  
be executed by its duly authorized officer on this 1 day of November  
2012.

SHARP KABUSHIKI KAISHA

By: Kiyoshi Yonetsu

Name: Kiyoshi Yonetsu

Title: Group Deputy General Manager, Corporate Research and Development Group  
Division General Manager, Intellectual Property Center