

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>TAKAJI WAKITA</td> <td>08/28/2013</td> </tr> <tr> <td>ASAKO MURAYAMA</td> <td>08/28/2013</td> </tr> <tr> <td>TAKANOBU KATO</td> <td>08/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	TAKAJI WAKITA	08/28/2013	ASAKO MURAYAMA	08/28/2013	TAKANOBU KATO	08/28/2013				
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number:	(215)656-2498												
Phone:	215-656-3381												
Email:	pto.phil@dlapiper.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													

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Correspondent Name: IP GROUP OF DLA PIPER LLP (US)
Address Line 1: ONE LIBERTY PLACE
Address Line 2: 1650 MARKET ST, SUITE 4900
Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	HIR-13-1599 (312443-020)
NAME OF SUBMITTER:	LESLIE J. HOOD
Signature:	/LJH/
Date:	11/26/2013

Total Attachments: 2
source=Assignment#page1.tif
source=Assignment#page2.tif

Attorney's Docket No.: HIR-13-1599**Assignment of Application**

WHEREAS, I (WE) _____

Takaji WAKITA of 3-19-1-101, Hyakunin-cho, Shinjuku-ku, Tokyo 162-0052 Japan,
Asako MURAYAMA of 12-1-2304, Tomihisa-cho, Shinjuku-ku, Tokyo 162-0067 Japan
 and **Takanobu KATO** of 2-190-3-502, Nishitobe-cho, Nishi-ku, Yokohama-shi, Kanagawa
 220-0046 Japan

_____, respectively,
 have invented certain new and useful improvements in: _____

**MUTANT REPLICON DERIVED FROM GENOME OF HEPATITIS C VIRUS
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for which an application for Letters Patent was executed on _____
 (Application No. PCT/JP2012/064070 &, filed May 31, 2012), and
US 14/122,450 November 26, 2013

WHEREAS, _____

**JAPAN AS REPRESENTED BY DIRECTOR-GENERAL OF NATIONAL
 INSTITUTE OF INFECTIOUS DISEASES and TORAY INDUSTRIES, INC.**

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____
23-1, Toyama 1-chome, Shinjuku-ku, Tokyo 162-8640 Japan and
1-1, Nihonbashi-Muromachi 2-chome, Chuo-ku, Tokyo 103-8666 Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all


of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of DLA Piper US LLP of One Liberty Place 1650 Market Street-Suite 4900 Philadelphia Pennsylvania 19103 U.S.A the power to insert on this assignment any further identification, including the application number and filing date, 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.

Date: August 28, 2013 
(Signature of inventor) Takaji WAKITA

Date: Aug. 28, 2013 村山 麻子
(Signature of inventor) Asako MURAYAMA

Date: Aug. 28, 2013 
(Signature of inventor) Takanobu KATO