

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>JOHN CROWLEY</td> <td>07/20/2007</td> </tr> <tr> <td>MAIKE WUBBEN</td> <td>07/20/2007</td> </tr> <tr> <td>JOSE MANUEL COCO MARTIN</td> <td>07/20/2007</td> </tr> </tbody> </table>		Name	Execution Date	JOHN CROWLEY	07/20/2007	MAIKE WUBBEN	07/20/2007	JOSE MANUEL COCO MARTIN	07/20/2007		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>DSM IP ASSETS B.V.</td> </tr> <tr> <td>Street Address:</td> <td>HET OVERLOON 1</td> </tr> <tr> <td>City:</td> <td>TE HEERLEN</td> </tr> <tr> <td>State/Country:</td> <td>NETHERLANDS</td> </tr> <tr> <td>Postal Code:</td> <td>6411</td> </tr> </table>		Name:	DSM IP ASSETS B.V.	Street Address:	HET OVERLOON 1	City:	TE HEERLEN	State/Country:	NETHERLANDS	Postal Code:	6411
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CORRESPONDENCE DATA											
Fax Number:	(312)913-0002										
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NAME OF SUBMITTER:	DAVID HARPER										
Signature:	/David Harper/										

Date:

10/16/2013

Total Attachments: 3

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ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) 1. CROWLEY, John
2. WUBBEN, Maïke
3. COCO MARTIN, Jose Manuel

(Assignee) DSM IP Assets B.V.
 (Address) Hof Overloon 1
6411 TE HEERLEN
The Netherlands

(Title) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as PROCESS FOR CELL CULTURING BY CONTINUOUS PERFUSION AND ALTERNATING TANGENTIAL FLOW
for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on 10/591,118 or has already filed U.S. appln. Serial No. August 30, 2006
The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

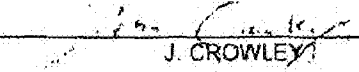
The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to 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.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof 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 agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. 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 Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

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

Date	<u>20 July 2007</u>	Signature of inventor	<u></u> J. CROWLEY
Date	<u>20 July 2007</u>	Signature of inventor	<u>M. WUBBEN</u>
Date	<u>20 July 2007</u>	Signature of inventor	<u>J.M. COCO MARTIN</u>
Date	_____	Signature of inventor	_____
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(Inventors) 1. CROWLEY, John
2. WUBBEN, Maïke
3. COCO MARTIN, Jose Manuel

(Assignee) 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
DSM IP Assets B.V.

(Address) Hat Overloon 1
6411 TE HEERLEN
The Netherlands

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