

PATENT ASSIGNMENT

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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>Richard L. Penny</td> <td>12/12/2012</td> </tr> <tr> <td>Jason A. Caplan</td> <td>12/11/2012</td> </tr> <tr> <td>Marika Suominen-Yeh</td> <td>12/11/2012</td> </tr> </tbody> </table>		Name	Execution Date	Richard L. Penny	12/12/2012	Jason A. Caplan	12/11/2012	Marika Suominen-Yeh	12/11/2012				
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Ensolve Biosystems, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>5805 Departure Drive</td> </tr> <tr> <td>Internal Address:</td> <td>Suite B</td> </tr> <tr> <td>City:</td> <td>Raleigh</td> </tr> <tr> <td>State/Country:</td> <td>NORTH CAROLINA</td> </tr> <tr> <td>Postal Code:</td> <td>27616</td> </tr> </table>		Name:	Ensolve Biosystems, Inc.	Street Address:	5805 Departure Drive	Internal Address:	Suite B	City:	Raleigh	State/Country:	NORTH CAROLINA	Postal Code:	27616
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CORRESPONDENCE DATA													
Fax Number: 3366077500 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 336/607-7300 Email: lsmith@kilpatricktownsend.com Correspondent Name: Charles Calkins - Kilpatrick Townsend Address Line 1: 1001 West Fourth Street Address Line 4: Winston-Salem, NORTH CAROLINA 27101													
ATTORNEY DOCKET NUMBER:	32111/853381												
NAME OF SUBMITTER:	Laura J. Smith												

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Total Attachments: 5

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ASSIGNMENT OF PATENT APPLICATION

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned,

Richard L. Penny, 126 Sound View Drive, Hampstead, NC 28443
Jason A. Caplan, 1309 Weidmann Drive, Raleigh, NC 27614
Marika Suominen-Yeh, 2008 Garden Wall Court, Raleigh, NC 27614

("the Inventors" or "the Assignors") do hereby sell, assign, and transfer to Ensolve Biosystems, Inc., a corporation of the State of North Carolina, having its principal place of business at 5805 Departure Drive, Suite B, Raleigh, NC 27616 ("the Assignee"), and the Assignee's successors and assigns, all right, title, and interest for all countries in and to the patent application entitled

BIO-MECHANICAL WASTESOLUTION TREATMENT SYSTEM

identified as U.S. Provisional Application No. 61/627,489, filed October 13, 2011, and U.S. Utility Application No. 13/650,259, filed October 12, 2012, (referred to as "the Application"), and in and to any and all inventions disclosed in the Applications ("the Invention") and all nonprovisional applications for United States Patent, including divisional, continuing, substitute, renewal, and reissue thereof, and all other applications for United States Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on one or more of the Inventions, and in and to all original and reissued patents or related foreign documents that have been or shall be issued on one or more of the Inventions.

We, the Assignors, in accordance with this assignment, authorize and request the Commissioner for Patents of the United States to issue to the Assignee or the Assignee's successors and assigns, in accordance with this assignment, any and all United States Letters Patents that claim or disclose one or more of the Inventions.

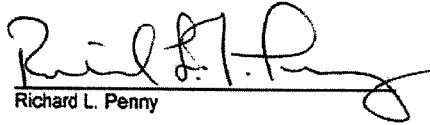
We, the Assignors, further agree, for good and valuable consideration, the receipt of which is hereby acknowledged, that the Assignee or the Assignee's successors and assigns may apply for and receive foreign Letters Patents or similar such rights and, in doing so, may make a claim of priority to the Application under the provisions of any bilateral or multilateral treaty or international agreement, including but not limited to, the International Convention of 1883 and later modifications thereof ("the Paris Convention"), the Patent Cooperation Treaty, the European Patent Convention, the Eurasian Patent Convention, the agreement(s) of the African Regional Intellectual Property Organization, the agreement(s) of the Organisation Africaine de la Propriete Intellectuelle, and the agreement(s) of the Cooperation Council for the Arab States of the Gulf; and that, when requested, without charge to the Assignee or the Assignee's successors and assigns, to carry out in good faith the intent and purpose of this assignment, the Inventors, or their executors or administrators, will, for the United States and any and all foreign countries: (i) execute any and all documents related to any application for patent in the United States or a foreign country, where such application discloses one or more of the Inventions; (ii) execute any and all oaths, declarations, assignments, confirmatory assignments, powers of attorney and other papers concerning one or more of the Inventions and any and all patent applications thereon, whether in the United States or a foreign country; and (iii) perform other such acts, at the request of the Assignee or the Assignee's successors and assigns, to obtain or maintain any and all patents or related property rights in the United States or any foreign country

on one or more of the Inventions or any improvements thereto and to vest title thereto in the Assignee or the Assignee's successors and assigns.

In testimony whereof, we, the Assignors, have signed our names below on the date indicated. By such signature, we, the Assignors, acknowledge that we are of sound mind and health, that we have read and understood all terms recited above, and that we are signing this of our own free will for the purposes stated herein.

SIGNATURES ARE ON THE FOLLOWING PAGES

(Remainder of page intentionally left blank)


Richard L. Penny

12 DECEMBER 2012
Date

SIGNATURE WITNESSED BY

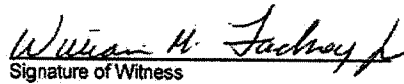
Joyce Ladney
Name of Witness (Printed)


Signature of Witness

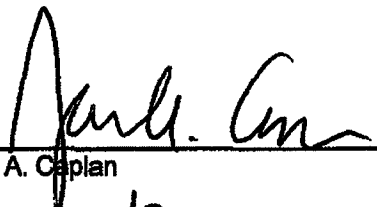
12/12/12
Date Witnessed

SIGNATURE WITNESSED BY

WILLIAM M. LADNEY JR
Name of Witness (Printed)


Signature of Witness

12/12/12
Date Witnessed

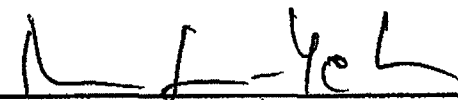


Jason A. Caplan
12-4-12

Date


SIGNATURE WITNESSED BY


Name of Witness (Printed)




Signature of Witness
12/11/12

Date Witnessed

SIGNATURE WITNESSED BY


Name of Witness (Printed)



Signature of Witness
12-11-2012

Date Witnessed

M L-Yeh

Marika Suominen-Yeh

12/11/12

Date

SIGNATURE WITNESSED BY

Jason A. Gates

Name of Witness (Printed)

Marika Suominen-Yeh

Signature of Witness

12-11-12

Date Witnessed

SIGNATURE WITNESSED BY

JEFFREY PAUL GATES

Name of Witness (Printed)

Jeffrey Paul Gates

Signature of Witness

12-11-2012

Date Witnessed