Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)	04 - 2008 U.S. DEPARTMENT OF COMMERCE <u>Jnited States Patent</u> and Trademark Office
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To the Director of the U.S. Patent and Tragement Office. I is	case record the attached documents or the new address(es) below.
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)
John R. Nottingham John W. Spirk	Name: Emerald Innovations, LLC
Trevor L. Jackson Don C. Fuchs, Jr.	Internal Address: Suite 200
	No.
3. Nature of conveyance/Execution Date(s):	Street Address: 245 Pittsburgh Rd.
Execution Date(s) 01/03/2008	
✓ Assignment	
Security Agreement Change of Name	City: Butler
Joint Research Agreement	State: PA
Government Interest Assignment	Oldic. 174
Executive Order 9424, Confirmatory License	Country: US Zip: 16001
Other	Additional name(s) & address(es) attached? Yes Vo
4. Application or patent number(s):	is document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
11/464,102	P 5
	attached? Tyes No
Additional numbers	Angel William
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: John D. Gugliotta, P.E., Esq.	7. Total fee (37 CFR 1.21(h) & 3.41) \$
Internal Address: Suite 200	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: 6100 Oaktree Blvd.	Enclosed
	None required (government interest not affecting title)
City: Independence	8. Payment Information
State: <u>ОН</u> Zip:44131	a. Credit Card Last 4 Numbers
	Expiration Date
Phone Number: 330-659-0065	b. Deposit Account Number <u>07-2380</u>
Fax Number: 330-253-6658	Authorized User Name John D. Gugliotta
Email Address: johng@inyentorshelp.com	
9. Signature:	January 29, 2008
Signature	Date
John D. Gugliotta, P.E., Esq. Name of Person Signing	Total number of pages including cover sheet state of pages including cover sheet she

Documents to be recorded (including cover sheet) should be faxed to (571) 272-8144, or mailed to:

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ADDITIONAL NAMES OF CONVEYING PARTIES

1. Name of conveying party (ies)

Doug Gall

PATENT REEL: 020461 FRAME: 0705

n1-14-2008 Docket No.: EI-2016 FORM PTO-1595 (Modified) U.S. DEPARTMENT OF COMMERCE SHEET (Rev. 03-01) Patent and Trademark Office OMB No. 0651-0027 (exp.5/31/2002) P08/REV04 103474815 Tab settings 🔷 🔷 To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof. 1.11.08 Name of conveying party(ies): 2. Name and address of receiving party(ies): John R. Nottingham John W. Spirk Name: Emerald Innovations, LLC Trevor L. Jackson Don C. Fuchs, Jr. Internal Address: Suite 200 Doug Gall Additional names(s) of conveying party(ies) ☐ Yes ☒ No Nature of conveyance: ☐ Merger Street Address: 245 Pittsburgh Road ☐ Security Agreement ☐ Change of Name Other City: Butler State: PA ZIP: 16003 Execution Date: Additional name(s) & address(es) attached? Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: 01/03/2008 A. Patent Application No.(s) Filing Date B. Patent No.(s) 11/464,102 08/11/2006 Additional numbers attached? ☐ Yes X No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: John D. Gugliotta, P.E., Esq. 7. Total fee (37 CFR 3.41):.....\$ 40.00 Internal Address: ☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account Authorized to be charged to deposit account 8. Deposit account number: Street Address: P.O. Box 506 81/11/2008 MJAMA1 00000089 072380 11464102 07-2380 01 FC:8021 40.00 DA City: Richfield State: OH ZIP: 44286 (Attach duplicate copy of this page if paying by deposit account)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy

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of the original document.

John D. Gugliotta, P.E., Esq.

Name of Person Signing

January 9, 2008

ignature Total number of pages including cover sheet, attachments, and document:

Date

	Assignment of Rights, Title and (Multiple inventors; si	! !	Docket No. EI-2016			
This is an As	ssignment of the following rights, title	and interest: (check all that apply):				
\boxtimes	United States of America rights, title	and interest in the invention				
X	Foreign rights, title and interest in th					
\boxtimes	United States Patent Application Ser	ial No. 11/464,102				
	Date of Execution:	Date of Filing: 08/11/2006				
	United States Provisional Patent App	lication Serial No.	 			
	United States Patent No(s).					
	Other (specify)					
Title of the I	nvention					
nventors (as	ssignors)					
	Name	Address				
John R. No	ttingham	19 East Hanna Lane, Bratenahl, OH 4410	8			
John W. S	pirk	7890 Brigham Rd., Gates Mills, OH 44040				
Trevor L. Ja	ackson	8562 Palomino Trail, Kirtland, OH 44094				
Don C. Fuc	chs, Jr.	8072 Edgewood, Mentor, OH 44060				
Doug Gall		14591 Mill Hollow Lane, Strongsville, OH 4	44136			
ssignee						
Name		Address				
Emerald Inn	novations, LLC	245 Pittsburgh Rd. Suite 200 Butler, PA 16003				

[Page 1 of 4]

AS03A/REV02

Assignment of Rights, Title and Interest in Invention (Multiple inventors; single assignee)

Docket No.

	E1-2010
Δ (Although notarization is not necessary, it will be considered prin	Notarization ma facie evidence of execution pursuant to 35 U.S.C. 261.)
Executed this 3 ed day of January	in the year 2008
interest OH10 County of Cuyahoga	(Signature of Saventor)
Before me personally appeared John R. Nottingham who acknowledged the foregoing instrument to be a free execute the same this 3rel day of Janua?	ϵ act and deed and also represented that he or she is authorized to ϵ
DRANDI BELANDEWIE Hetero Priblio – Birde of Uhio, Ruya Gep 185 U. Georgeion Capites April 18, 2019	Grand Drandewie
Executed this 3rd day of January	in the year 2008
tate of OHIO	(Signature of Inventor)
County of Luya Hog a Refore me personally appeared John W. Spirk Pho acknowledged the foregoing instrument to be a free Recute the same this 3Rd day of Janua Ry BRANDI BRANDEWME Notary Public - State of Ohio, Geya, Cip. Tay Commission Expires April 13, 2010	act and deed and also represented that he or she is authorized to in the year 7,00 8 Land Notary Public
Executed this 200 day of January	in the year 2008
tate of OHIO Tounty of Cayahoga	(Signature of Inventor)
efore me personally appeared Trevor L. Jackson	act and deed and also represented that he or she is authorized to in the year 2008 Branch Branclews

Assignment of Rights, Title and Interest in Invention (Multiple inventors; single assignee)

Docket No. E1-2016

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