

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4481839

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	DAVID SHERRER	06/10/2008
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	NUVOTRONICS, INC	
<b>Street Address:</b>	7586 OLD PEPPERS FERRY LOOP	
<b>City:</b>	RADFORD	
<b>State/Country:</b>	VIRGINIA	
<b>Postal Code:</b>	24141	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15405799	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(215)563-4044	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	2155634100	
<b>Email:</b>	nhaun@ddhs.com, fzapiec@ddhs.com	
<b>Correspondent Name:</b>	NIELS HAUN	
<b>Address Line 1:</b>	1601 MARKET ST	
<b>Address Line 2:</b>	SUITE 2400	
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103	
<b>ATTORNEY DOCKET NUMBER:</b>	5147-P05491US4	
<b>NAME OF SUBMITTER:</b>	NIELS HAUN	
<b>SIGNATURE:</b>	/Niels Haun/	
<b>DATE SIGNED:</b>	06/28/2017	
<b>Total Attachments: 20</b>		
source=Executed Assignment RH to Nuvo with Exb#page1.tif		
source=Executed Assignment RH to Nuvo with Exb#page2.tif		
source=Executed Assignment RH to Nuvo with Exb#page3.tif		
source=Executed Assignment RH to Nuvo with Exb#page4.tif		
source=Executed Assignment RH to Nuvo with Exb#page5.tif		

source=Executed Assignment RH to Nuvo with Exb#page6.tif  
source=Executed Assignment RH to Nuvo with Exb#page7.tif  
source=Executed Assignment RH to Nuvo with Exb#page8.tif  
source=Executed Assignment RH to Nuvo with Exb#page9.tif  
source=Executed Assignment RH to Nuvo with Exb#page10.tif  
source=Executed Assignment RH to Nuvo with Exb#page11.tif  
source=Nuvo LLC to Nuvo Inc#page1.tif  
source=Nuvo LLC to Nuvo Inc#page2.tif  
source=Nuvo LLC to Nuvo Inc#page3.tif  
source=Nuvo LLC to Nuvo Inc#page4.tif  
source=Nuvo LLC to Nuvo Inc#page5.tif  
source=Nuvo LLC to Nuvo Inc#page6.tif  
source=Nuvo LLC to Nuvo Inc#page7.tif  
source=Executed\_Assignment\_US1#page1.tif  
source=Executed\_Assignment\_US1#page2.tif

GLOBAL INTELLECTUAL PROPERTY ASSIGNMENT

This GLOBAL INTELLECTUAL PROPERTY ASSIGNMENT (the "Assignment") is effective as of July 8, 2008 (the "Effective Date") by and between Rohm and Haas Electronic Materials LLC, a Delaware limited liability company with its principal office located at 455 Forest Street, Marlborough, MA 01752, USA ("Seller"), Rohm and Haas Company, a Delaware corporation with its principal office located at 100 Independence Mall West, Philadelphia, PA 19106-2399 ("Seller's Affiliate") and Nuvotronics, LLC with its principal office located at 7586 Peppers Ferry Loop, Radford, Virginia 24141 ("Purchaser").

BACKGROUND

Seller and Purchaser entered an Asset Purchase Agreement dated as of June 30, 2008 (the "Purchase Agreement") pursuant to which Seller is selling, conveying, transferring and assigning certain assets to Purchaser in connection with the Seller's operations at its Blacksburg, Virginia facility (including, without limitation, all of Seller's right, title and interest in the Intellectual Property) and Buyer is purchasing such assets.

TERMS

NOW THEREFORE, in consideration of the above premises and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and with the intent to be legally bound, the parties hereto hereby agree as follows:

1. Effective as of the Effective Date, and subject to the terms and conditions of the Purchase Agreement, Seller or Seller's Affiliate hereby sells, conveys, transfers, and assigns to Purchaser all right, title and interest to and in the Intellectual Property including, but not limited to: (a) the patents and patent applications shown in Schedule 1.1(a) of the Purchase Agreement, which Schedule 1.1(a) is attached hereto, including all patents which may be granted therefore, and all divisions, reissues, substitutions, extensions, continuations, in whole or in part, re-examinations, reissues and extensions thereof, all applications claiming priority therefrom including United States, international and foreign applications, and all applications to which priority is claimed therein (the "Patents"); (b) all inventions described in the Patents; (c) those inventions described in invention disclosures shown in Schedule 1.1(a) of the Purchase Agreement (the "Invention Disclosures"); (d) all rights to obtain and rights to apply for any of such inventions, Patents and Invention Disclosures; (e) the trademarks as shown in Schedule 1.1(a) of the Purchase Agreement, which Schedule 1.1(a) is attached hereto, including all rights provided therein in the United States and other nations as provided by treaty or convention (the "Trademarks"); (f) all Goodwill associated with the Trademarks; (g) all rights under any agreements pertaining to the Patents or the Trademarks; and (g) all rights to sue and recover and retain damages (provisional or otherwise) and costs and attorneys' fees for present and past infringement of any of the rights set forth above, including the rights in the Patents and the Trademarks.

2. Seller and Seller's Affiliate shall, within a reasonable time after Closing, each take any and all additional actions as may be necessary or appropriate to effect the transactions contemplated by this Assignment. Such actions may include, without limitation: the execution of all papers and documents and swearing of all lawful oaths to perfect the rights in the Patents and the Trademarks; the execution of all documents to record the assignments and transfers made in this Assignment and assistance with the filing of such documents with the appropriate domestic and foreign governmental authorities.

3. Capitalized terms used herein without definition shall have the respective meanings ascribed to such terms in the Purchase Agreement. The terms and conditions of the Purchase Agreement shall govern, supersede and prevail over this Assignment.

4. No party hereto may assign, delegate or transfer its rights under this Assignment without the prior written consent of the other parties hereto, except that Purchaser may assign, delegate or transfer any such right without such consent. This Agreement is binding upon and shall inure to the benefit of the parties hereto and their respective successors and permitted assigns.

5. Subject to applicable law, this Assignment may be amended, modified and supplemented by written instrument authorized and executed by Purchaser, Seller and Seller's Affiliate at any time with respect to any of the terms contained herein. No waiver by any party hereto of any provisions hereof shall be effective unless explicitly set forth in writing and executed by the party so waiving. The waiver by any party hereto of a breach of any provisions of this Assignment shall not operate or be construed as a waiver of any other or subsequent breach.

6. This Assignment may be executed by the parties hereto in separate counterparts, each of which when so executed and delivered shall be an original, but all such counterparts shall together constitute one and the same instrument.

7. This Assignment shall be governed by and construed and enforced in accordance with the laws of the Commonwealth of Massachusetts, without regard to provisions regarding choice of laws.

IN WITNESS WHEREOF, the parties hereto have caused this Assignment to be executed as of this 8 day of July, 2008 to be effective as of the Effective Date.

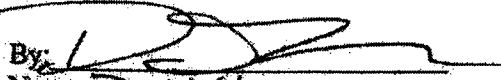
ROHM AND HAAS ELECTRONIC MATERIALS LLC

By: \_\_\_\_\_  
Name:  
Title:

ROHM AND HAAS COMPANY

By: \_\_\_\_\_  
Name:  
Title:

NUVOTRONICS, LLC

By:   
Name: David Sherrer  
Title: President

IN WITNESS WHEREOF, the parties hereto have caused this Assignment to be executed as of this 8 day of July, 2008 to be effective as of the Effective Date.

ROHM AND HAAS ELECTRONIC MATERIALS LLC

By: [Signature]  
Name: Daryl P. Fritchey  
Title: Asst. Secretary and  
Director of Patents

ROHM AND HAAS COMPANY

By: [Signature]  
Name: Daryl P. Fritchey  
Title: Asst. Secretary and  
Chief IP Counsel

NUVOTRONICS, LLC

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

SCHEDULE 1.1(a)  
PATENTS AND PATENT APPLICATIONS

DOCKET NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	GRANT DATE
51901	US	09/862037	21-May-01	6768590	27-Jul-04
51901-DIV	US	10/871689	2-Jun-04	7267781	11-Sep-07
51902-CON1	US	11/139270	27-May-05	7288756	30-Oct-07
51902-CON6	US	12/079248	25-Mar-08		
51902-CIP2	US	11/124775	9-May-05	7208725	24-Apr-07
51902-CON2	US	11/220884	7-Sep-05	7355166	8-Apr-08
51902-CON3	US	11/223402	9-Sep-05	7348550	25-Mar-08
51902-CON4	US	11/223403	9-Sep-05	7288758	30-Oct-07
51902-CON5	US	11/506250	18-Aug-06	7291833	6-Nov-07
51903	US	09/560418	27-Apr-00	6501619	31-Dec-02
51904	US	09/814526	22-Mar-01	6738145	18-May-04
51906	US	09/519165	6-Mar-00	6811853	2-Nov-04
51907	US	09/713117	15-Nov-00	6526204	25-Feb-03
51910	US	09/541394	31-Mar-00	6698295	2-Mar-04
51910-CIP	US	10/790339	1-Mar-04	7026697	11-Apr-06
51916	US	09/614155	11-Jul-00	6866426	15-Mar-05
51917	US	09/827183	6-Apr-01	6848839	1-Feb-05
51919-P	US	60/195,254	4-Apr-00		
51919	US	09/824205	3-Apr-01	6595700	22-Jul-03
51921-P	US	60/197,130	14-Apr-00		
51921	US	09/835863	16-Apr-01	6847764	25-Jan-05
51922-P	US	60/197154			
51922-P2	US	60/201347			
51922	US	09/835106	13-Apr-01	6826324	30-Nov-04
51922-CIP	US	10/356663	31-Jan-03	6842552	11-Jan-05
51923-P	US	60/201352	2-May-00		
51923	US	09/845773	2-May-01	6633691	14-Oct-03
51924-P	US	60/201348	2-May-00		
51924	US	09/847798	2-May-01	6627096	30-Sep-03
51927-P	US	60/204473	16-May-00		
51927-CIP	US	09/858999	16-May-01	7255978	14-Aug-07
51927-DIV	US	11/891721	13-Aug-07		
51930-P	US	60/221217	25-Jul-00		
51930	US	09/911834	25-Jul-01	6613243	2-Sep-03
51934	US	60/243446	26-Oct-00		
51934	US	10/037,971	24-Oct-01	6819858	16-Nov-04

DOCKET NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	GRANT DATE
51936-P	US	60/243445	26-Oct-00		
51936	US	09/999332	26-Oct-01	6759173	6-Jul-04
51946-P	US	60/243172	25-Oct-00		
51946	US	09/999517	24-Oct-01	7345316	18-Mar-08
51946-CON	US	11/503023	11-Aug-06		
51948-P	US	60/249792	16-Nov-00		
51948	US	09/988055	16-Nov-01	6898029	24-May-05
51949-P	US	60/249794	16-Nov-00		
51949	US	09/966973	28-Sep-01	6932519	23-Aug-05
51949-2C	US	11/080002	15-Mar-05	7246953	24-Jul-07
51950-P	US	60/249795	16-Nov-00		
51950	US	09/987766	15-Nov-01	6839474	4-Jan-05
51951-P	US	60/249806	16-Nov-00		
51951	US	10/054575	13-Nov-01	6799897	5-Oct-04
51952-P	US	60/243444	26-Oct-00		
51952-P2	US	60/249793	16-Nov-00		
51952	US	09/983984	26-Oct-01	7068870	27-Jan-06
51955-P	US	60/250943	1-Dec-00		
51955	US	09/990509	21-Nov-01	6827503	7-Dec-04
51958-P	US	60/255868	14-Dec-00		
51958-P2	US	60/287032	30-Apr-01		
51958-EP	EUROPE	01273979.3	14-Dec-01	1356327	16-Apr-08
51958-FR	FRANCE	01273979.3	14-Dec-01	1356327	16-Apr-08
51958-DE	GERMANY	01273979.3	14-Dec-01	1356327	16-Apr-08
51958-IT	ITALY	01273979.3	14-Dec-01	1356327	16-Apr-08
51958-UK	UNIT. KING.	01273979.3	14-Dec-01	1356327	16-Apr-08
51958	US	10/450475	12-Jun-03	6987919	17-Jan-06
51959-P	US	60/255865	14-Dec-00		
51959	US	10/013084	10-Dec-01	6883977	26-Apr-05
51962-P	US	60/257020	20-Dec-00		
51962	US	10/022726	20-Dec-01	6810162	26-Oct-04
51962-DIV	US	10/954467	30-Sep-04	7079725	18-Jul-06
51966-P	US	60/265191	31-Jan-01		
51966	US	10/066299	31-Jan-02	6917056	12-Jul-05
51967-P	US	60/266931	7-Feb-01		
51967	US	10/071261	7-Feb-02	6885786	26-Apr-06
51969-P	US	60/269011	14-Feb-01		
51969-P2	US	60/269010	14-Feb-01		
51969	US	10/076858	14-Feb-02	6964804	15-Nov-06



DOCKET NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	GRANT DATE
51969-DIV	US	11/273769	15-Nov-05		
51979-P	US	60/285152	20-Apr-01		
51979	US	10/124612	17-Apr-02		
51983-P	US	60/295175	1-Jun-01		
51983-P2	US	60/472914	23-May-03		
51983-CN	CHINA	200410090310.3	21-May-04		
51983-CN-DIV	CHINA	200710300512.X	21-May-04		
51983-EP	EUROPE	04252984.2	21-May-04	1480302	11-Jul-07
51983-EP2	EUROPE	07009584.9	21-May-04		
51983-FR	FRANCE	04252984.2	21-May-04	1480302	11-Jul-07
51983-DE	GERMANY	04252984.2	21-May-04	1480302	11-Jul-07
51983-TW	TAIWAN	93114389	21-May-04	1275222	1-Mar-07
51983-UK	UNIT. KING.	04252984.2	21-May-04	1480302	11-Jul-07
51983-JP	JAPAN	2004-151886	21-May-04		
51983	US	10/860810	24-May-04	7294280	13-Nov-07
51983-DIV	US	11/983843	13-Nov-07		
51986-P	US	60/285907	23-Apr-01		
51986	US	10/126491	19-Apr-02	6902098	7-Jun-05
51986-DIV	US	10/925410	25-Aug-04	6927492	9-Aug-05
51987-P	US	60/285906	23-Apr-01		
51987	US	10/126938	19-Apr-02	6782182	24-Aug-04
51994-P	US	60/300201	22-Jun-01		
51994-CN	CHINA	200410063905.X	21-May-04	200410063905.X	30-Jan-08
51994-TW	TAIWAN	93114390	21-May-04	1254025	1-May-06
51994	US	10/860809	24-May-04	7157016	2-Jan-07
51994-JP	JAPAN	2004-151958	21-May-04		
52000-P	US	60/306568	19-Jul-01		
52000-CN	CHINA	02816376.1	19-Jul-02		
52000-EP	EUROPE	02756559.7	19-Jul-02		
52000-JP	JAPAN	2003-513732	19-Jul-02		
52000-KR	KOREA	2004-7000893	19-Jul-02		
52000-CIP	US	10/199476	19-Jul-02	6907150	14-Jun-05
52000-CON	US	11/152671	14-Jun-05	7198727	3-Apr-07
52003-P	US	60/310378	6-Aug-01		
52003	US	10/214433	6-Aug-02	7078671	18-Jul-06
52003-CON	US	11/446819	5-Jun-06	7378646	27-May-08
52004-CN	CHINA	02819852.2	9-Sep-02	2819852.2	30-May-07
52004-EP	EUROPE	02759618.8	9-Sep-02		
52004-JP	JAPAN	2003-527469	9-Sep-02		

DOCKET NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	GRANT DATE
52004-P	US	60/318189	7-Sep-01		
52004	US	10/488569	18-Apr-05	7149399	12-Dec-06
52005-P	US	60/336933	5-Dec-01		
52005-JP	JAPAN	2003-551579	5-Dec-02		
52005	US	10/498182	3-Dec-04	7251406	31-Jul-07
52007-P	US	60/304927	11-Jul-01		
52007	US	10/194954	11-Jul-02	6865324	8-Mar-05
52008-P	US	60/223163	7-Aug-00		
52008	US	09/923842	7-Aug-01	7086134	8-Aug-06
52008-DIV	US	11/500061	7-Aug-06	7290321	6-Nov-07
52009-P	US	60/325043	26-Sep-01		
52009-JP	JAPAN	2003-531225	26-Sep-02		
52009	US	10/492281	9-Apr-04	7024090	4-Apr-06
52010-P	US	60/337007	8-Nov-01		
52010-CN	CHINA	02821649.0	8-Nov-02	2821649	28-Feb-07
52010-JP	JAPAN	2003-543074	8-Nov-02		
52010	US	10/494869	7-May-04		
52021-P	US	60/452073	4-Mar-03		
52021-CN	CHINA	200480012012.0	4-Mar-04		
52021-EP	EUROPE	04717433.9	4-Mar-04		
52021-HK	HONG KONG	06110925.3	4-Mar-04		
52021-TW	TAIWAN	93105667	4-Mar-04	1238513	21-Aug-05
52021	US	10/793574	4-Mar-04	7012489	14-Mar-06
52021-2CON	US	11/316417	22-Dec-05	7148772	12-Dec-06
52021-3CON	US	11/637629	12-Dec-06		
52021-4CON	US	Con of 11/637629	18-Jun-08		
52061-P	US	60/533689	31-Dec-03		
52061-CN	CHINA	200410081715.0	30-Dec-04		
52061-JP	JAPAN	2004-97058	29-Mar-04		
52061-TW	TAIWAN	93140189	23-Dec-04	1261363	1-Sep-06
52061	US	11/023763	28-Dec-04	7158708	2-Jan-07
52085-P	US	60/640741	30-Dec-04		
52085	US	11/316442	22-Dec-05		
52122-P	US	60/502868	15-Sep-03		
52122A-CA	CANADA	2481637	15-Sep-04		
52122B-CA	CANADA	2481616	15-Sep-04		
52122B-CN	CHINA	200410082074.0	15-Sep-04	200410082074	2-Apr-08
52122A-CN	CHINA	200410082073.6	15-Sep-04		
52122A-CN-	CHINA	200710104072.0	15-Sep-04		

DOCKET NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	GRANT DATE
DIV					
52122B-CN-DIV	CHINA	200710126459.6	11-Jun-07		
52122A-EP	EUROPE	04255516.9	13-Sep-04		
52122B-EP	EUROPE	04255517.7	13-Sep-04		
52122A-JP	JAPAN	2004-267167	14-Sep-04		
52122B-JP	JAPAN	2004267295	14-Sep-04		
52122A-KR	KOREA	10-2004-0073928	15-Sep-04		
52122B-KR	KOREA	10-2004-73928	15-Sep-04		
52122A-TW	TAIWAN	93127827	15-Sep-04	I233761	21-Apr-06
52122B-TW	TAIWAN	93127829	15-Sep-04	I241722	11-Oct-05
52122A	US	10/941668	15-Sep-04	7329056	12-Feb-08
52122B	US	10/941667	15-Sep-04	7129163	31-Oct-06
52122B-1	US	11/590592	31-Oct-06		
52122B-2	US	11/590629	31-Oct-06		
52122B-3	US	11/590099	31-Oct-06		
52352-P	US	60/878278	30-Dec-06		
52352-CN	CHINA	200710093280.5	28-Dec-07		
52352-EP	EUROPE	07150463.3	28-Dec-07		
52352-JP	JAPAN	2007-339396	28-Dec-07		
52352-KR	KOREA	10-2007-0141058	28-Dec-07		
52352-TW	TAIWAN	96150717	28-Dec-07		
52352	US	12/005936	28-Dec-07		
52388-P	US	60/708641	16-Aug-05		
52388-P2	US	60/708,552	15-Aug-05		
52388-CA	CANADA	2556117	14-Aug-06		
52388-CN	CHINA	200610121503.X	15-Aug-06		
52388-EP	EUROPE	06254278.2	15-Aug-06		
52388-JP	JAPAN	2006-220976	14-Aug-06		
52388-KR	KOREA	10-2006-0077231	16-Aug-06		
52388-TW	TAIWAN	95129736	14-Aug-06		
52388	US	11/504442	15-Aug-06		
52430-P	US	60/878319	30-Dec-06		
52430-CN	CHINA	200710180070.X	28-Dec-07		
52430-EP	EUROPE	07150465.8	28-Dec-07		
52430-JP	JAPAN	2007-339335	28-Dec-07		
52430-KR	KOREA	10-2007-0141057	28-Dec-07		
52430-TW	TAIWAN	96150718	28-Dec-07		
52430	US	12/005885	28-Dec-07		
52442-P	US	60/686543	1-Jun-05		

DOCKET NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	GRANT DATE
52442-CA	CANADA	2548857	30-May-06		
52442-CN	CHINA	200610092462.6	1-Jun-06		
52442-EP	EUROPE	06252810.4	31-May-06		
52442-JP	JAPAN	2006-150994	31-May-06		
52442-KR	KOREA	10-2006-0048439	30-May-06		
52442-TW	TAIWAN	95119101	30-May-06		
52442	US	11/445043	1-Jun-06		
52476-P	US	60/725196	11-Oct-05		
52476-CA	CANADA	2563182	11-Oct-06		
52476-EP	EUROPE	06255223.7	11-Oct-06		
52476-JP	JAPAN	2006-277300	11-Oct-06		
52476-TW	TAIWAN	95137285	11-Oct-06		
52476	US	11/545908	11-Oct-06	7352924	1-Apr-08
52528-P	US	60/903490	25-Feb-07		
52528-CN	CHINA	200810096308.5	25-Feb-08		
52528-EP	EUROPE	08151799.7	22-Feb-08		
52528-JP	JAPAN	2008-042222	25-Feb-08		
52528-KR	KOREA	10-2008-0016989	25-Feb-08		
52528-TW	TAIWAN	97106413	25-Feb-08		
52528	US	12/072157	22-Feb-08		
52557-P	US	61/008053	18-Dec-07		
52580-P	US	60/878270	30-Dec-06		
52580-CN	CHINA	200110093281.X	28-Dec-07		
52580-EP	EUROPE	07150467.4	28-Dec-07		
52580-JP	JAPAN	2007-339455	28-Dec-07		
52580-KR	KOREA	10-2007-0141060	28-Dec-07		
52580-TW	TAIWAN	96150719	28-Dec-07		
52580	US	12/005866	28-Dec-07		
52594-P	US	60/919124	20-Mar-07		
52594-KR	KOREA	10-2008-0026080			
52594-JP	JAPAN	2008-073894			
52594-EP	EUROPE	08153138.6	20-Mar-08		
52594	US	12/077546	20-Mar-08		
52595-P	US	60/895979	20-Mar-07		
52595-JP	JAPAN	2008-073961			
52595-KR	KOREA	10-2008-0026087			
52595-EP	EUROPE	08153144.4	20-Mar-08		
52595	US	12/077547	20-Mar-08		
52604-P	US	60/920515	27-Mar-07		

DOCKET NO.	COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO.	GRANT DATE
52604-EP	EUROPE	08251085.0	26-Mar-08		
52604-TW	TAIWAN	97110944	27-Mar-08		
52604-CN	CHINA	not yet assigned			
52604-KR	KOREA	10-2008-0028664	27-Mar-08		
52604-JP	JAPAN	2008-083742	27-Mar-08		
52604	USA	12/079513	26-Mar-08		
52678-P	US	61/009619	31-Dec-07		
52679-P	US	61/009621	31-Dec-07		
52695-P	US	61/066945	24-Feb-08		
A01726	US	60/650948	8-Feb-05		
A01726-CA	CANADA	2533974	25-Jan-06		
A01726-CN	CHINA	200610003761.8	8-Feb-06		
A01726-EP	EUROPE	06250481.6	28-Jan-06		
A01726-JP	JAPAN	2006029226	7-Feb-06		
A01726-KR	KOREA	20060008225	26-Jan-06		
A01726-TW	TAIWAN	95103015	26-Jan-06		
A01726-1	US	11/335722	19-Jan-06		

# Delaware

PAGE 1

*The First State*

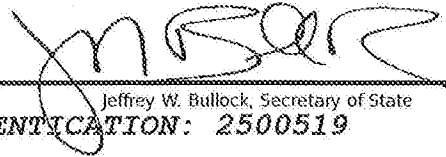
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A VIRGINIA LIMITED LIABILITY COMPANY UNDER THE NAME OF "NUVOTRONICS, LLC" TO A DELAWARE LIMITED LIABILITY COMPANY, FILED IN THIS OFFICE ON THE TWENTY-FIFTH DAY OF JUNE, A.D. 2015, AT 9:49 O'CLOCK A.M.



5773718 8100V

150970501

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2500519

DATE: 06-25-15

**PATENT**  
**REEL: 042845 FRAME: 0502**

STATE OF DELAWARE  
CERTIFICATE OF CONVERSION  
FROM A NON-DELAWARE LIMITED LIABILITY COMPANY TO  
A DELAWARE LIMITED LIABILITY COMPANY PURSUANT TO  
SECTION 18-214 OF THE LIMITED LIABILITY ACT

- 1.) The jurisdiction where the Non-Delaware Limited Liability Company first formed is Virginia.
- 2.) The jurisdiction immediately prior to filing this Certificate is Virginia.
- 3.) The date the Non-Delaware Limited Liability Company first formed is 06/09/2008.
- 4.) The name of the Non-Delaware Limited Liability Company immediately prior to filing this Certificate is Nuvotronics, LLC.
- 5.) The name of the Limited Liability Company as set forth in the Certificate of Formation is Nuvotronics, LLC.

IN WITNESS WHEREOF, the undersigned have executed this Certificate on the  
24th day of June, A.D. 2015.

By:   
Authorized Person

Name: Noel Heika, CEO  
Print or Type

# Delaware

PAGE 2

*The First State*


I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF  
DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND  
CORRECT COPY OF CERTIFICATE OF FORMATION OF "NUVOTRONICS, LLC"  
FILED IN THIS OFFICE ON THE TWENTY-FIFTH DAY OF JUNE, A.D. 2015,  
AT 9:49 O'CLOCK A.M.



5773718 8100V

150970501

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2500519

DATE: 06-25-15

**PATENT**  
**REEL: 042845 FRAME: 0504**



STATE of DELAWARE  
LIMITED LIABILITY COMPANY  
CERTIFICATE of FORMATION

• First: The name of the limited liability company is Nuvotronics, LLC

• Second: The address of its registered office in the State of Delaware is 1209  
Orange Street in the City of Wilmington  
Zip Code 19801

The name of its Registered agent at such address is The Corporation  
Trust Company

• Third: (Insert any other matters the members determine to include herein.)

In Witness Whereof, the undersigned have executed this Certificate of Formation this  
24th day of June, 2015.

By:   
Authorized Person(s)

Name: Noel Heiks, CEO  
Typed or Printed

# Delaware

PAGE 1

*The First State*

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE LIMITED LIABILITY COMPANY UNDER THE NAME OF "NUVOTRONICS, LLC" TO A DELAWARE CORPORATION, CHANGING ITS NAME FROM "NUVOTRONICS, LLC" TO "NUVOTRONICS, INC.", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D. 2015, AT 10:37 O'CLOCK A.M.

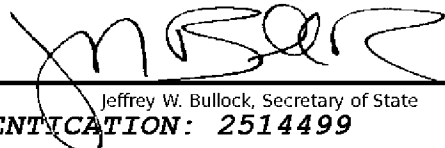
A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

5773718 8100V

150990605

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2514499

DATE: 06-30-15

PATENT  
REEL: 042845 FRAME: 0506

STATE OF DELAWARE  
CERTIFICATE OF CONVERSION  
FROM A LIMITED LIABILITY COMPANY TO A  
CORPORATION PURSUANT TO SECTION 265 OF  
THE DELAWARE GENERAL CORPORATION LAW

- 1.) The jurisdiction where the Limited Liability Company first formed is  
Virginia
- 2.) The jurisdiction immediately prior to filing this Certificate is Delaware
- 3.) The date the Limited Liability Company first formed is 6/25/15
- 4.) The name of the Limited Liability Company immediately prior to filing this  
Certificate is Nuvotronics, LLC
- 5.) The name of the Corporation as set forth in the Certificate of Incorporation is  
Nuvotronics, Inc.

IN WITNESS WHEREOF, the undersigned being duly authorized to sign on behalf  
of the converting Limited Liability Company have executed this Certificate on the  
30 day of June, A.D. 2015.

By: 

Name: David W. Sherrer  
Print or Type

Title: Manager and President  
Print or Type

# Delaware

PAGE 2

*The First State*

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF CERTIFICATE OF INCORPORATION OF "NUVOTRONICS, INC." FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D. 2015, AT 10:37 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



5773718 8100V

150990605

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2514499

DATE: 06-30-15

PATENT  
REEL: 042845 FRAME: 0508

**ASSIGNMENT**

WHEREAS, I, David W. SHERRER of Radford, Virginia and I, Jean-Marc ROLLIN of Blacksburg, Virginia, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "COAXIAL TRANSMISSION LINE MICROSTRUCTURES AND METHODS OF FORMATION THEREOF", for which an application for United States Letters Patent with the same title was filed with the United States Patent and Trademark Office on March 20, 2008 and assigned United States Patent Application Serial No. 12/077,546, which application corresponds to and claims priority of United States Provisional Application Serial No. 60/919,124, filed March 20, 2007; and

WHEREAS, Rohm and Haas Electronic Materials LLC, located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application; and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.



The Assignors also have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the Patent Law Department of Rohm and Haas Electronic Materials LLC the power to insert on this Assignment any further identification that 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.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Effective from the date of: March 20, 2007.

	Signatures	Date
1.	 _____ David W. SHERRER	<u>6/18/07</u>
2.	 _____ Jean-Marc ROLLIN	<u>06-10-08</u>