

04-09-2010



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**HEET** 

i. Name of conveying party(ies):  2. Name and address of receiving party(ies):	To the Director of the U.S. Patent and Trademark Office: Please re	ecord the attached original documents or copy thereof.
1) Name: Incos Technologies (Vinyls) Limited Street Address: Hawkslease, Chapel Lane, Lyndhurst City: Hampshire   State/Country: United Kingdom Zip: SO43 7FG		
Street Address: Hawkslease, Chapel Lane, Lyndhurst City: Hampshire    Additional name/s of conveying party/ies attached?	1 Ineos Vinyls UK Limited 5	
City: Hampshire  State/Country: United Kingdom Zip: SO43 7FG  Additional name/s of conveyance:    Assignment   Merger   Street Address:   City: Bampshire   Change of Name   Street Address:   City: Agent Application number(s) or patent number(s):   A Patent Application number(s) or patent number(s):   A Patent Application number(s) or patent number(s):   A Patent Application No(s). (1) 697582,887 (2) (3)   Additional numbers attached   Yes   No    Name and address of party to whom correspondence concerning document should be mailed:   Name: Leonard C. Mitchard   Mitchard   Leonard C. Mitchard   Street Address: Nixon & Vanderhye P.C.   Soll North Glebe Road   11th Floor   14-1140.    This assignment is being filed together with a new application.   B. Patent No(s). (1)6,777,373 (2) (3)	2 6	
Additional name/s of conveying party/ies attached?    3. Nature of conveyance:	7	· · · · · · · · · · · · · · · · · · ·
State/Country: United Kingdom   Zip: SO43 7FG	8	City: Hampshire
Additional name/s of conveying party/ies attached?   3. Nature of conveyance:   Assignment		State/Country: United Kingdom Zin: SO43 7FG
3. Nature of conveyance: Security Assignment Change of Name Street Address: Other  Execution Date: December 4, 2009  4. Application number(s) or patent number(s): A. Patent Application No(s). (1) 09/582.887 (2) (3)  Additional numbers attached Yes No  5. Name and address of party to whom correspondence concerning document should be mailed: Name: Leonard C. Mitchard  Internal Address: Street Address: Nixon & Vanderhye P.C. 901 North Glebe Road 11th Floor City: Arlington State: VA Zip: 22203  9. Statements 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 of the original document.  Leonard C. Mitchard  DO NOT USE THIS SPACE  9. Statements 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 of the original document.  Leonard C. Mitchard Name of Person Signing	Additional name/s of conveying party/ies attached?	Suite Country. Since Images 21pt 50 to 12
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Security Assignment   Change of Name   City: State:   Zip:		l ′
Other   Execution Date:   December 4, 2009   Additional name/s & address/es attached?   Yes   No		City:
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City: Arlington State: VA Zip: 22203 filed in this application by this firm) to our Account No.  14-1140.  DO NOT USE THIS SPACE  9. Statements 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 of the original document.  Leonard C. Mitchard March 18, 2010 Name of Person Signing Date		
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Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:	Documents to be recorded (including cover sheet) should be faxed	to (571) 273-0140, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

04/07/2010 SSANDARA 00000008 09582887

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and

INEOS TECHNOLOGIES (VINYLS) LIMITED

**DEED OF ASSIGNMENT OF PATENTS** 

Slaughter and May, One Bunhill Row, London EC1Y 8YY

Ref: CAYC/DJOB

CE093310020

## BETWEEN:

- (1) INEOS VINYLS UK LIMITED whose registered office is at Runcorn Site HQ, South Parade, PO Box 9, Runcorn, Cheshire, WA7 4JE (registered in England No. 00547640) (the "Assignor"); and
- (2) INEOS TECHNOLOGIES (VINYLS) LIMITED whose registered office is at Hawkslease, Chapel Lane, Lyndhurst, Hampshire SO43 7FG (registered in England No. 07085219) (the "Assignee").

## WHEREAS:

- (A) The Assignor is the owner of the patents and the patent applications, details of which are set out in the Schedule hereto (the "Patents").
- (B) The Assignor has agreed to assign the Patents to the Assignee.

## NOW THIS DEED WITNESSETH AS FOLLOWS:

## 1. ASSIGNMENT

In consideration of the sum of ten euros (10 euros), receipt of which is acknowledged, the Assignor hereby assigns to the Assignee all its right, title and interest in and to the Patents together with all rights, privileges and advantages thereto including, without limitation, the right to take proceedings and recover damages and obtain all other remedies in respect of past infringements thereof to hold unto the Assignee absolutely for the full term of the Patents.

#### 2. FURTHER ASSURANCE

The Assignor shall, at the request and cost of the Assignee, execute any further documents that may be necessary to secure the vesting in the Assignee of all rights assigned to the Assignee hereunder.

## 3. GOVERNING LAW

This Deed of Assignment shall be governed by and construed in accordance with English law. Any matter, claim or dispute out of or in connection with this Deed of Assignment, whether contractual or non-contractual, is to be governed by and determined in accordance with English law. The parties hereby submit to the exclusive jurisdiction of the English Courts in relation to all matters arising out of this Deed of Assignment.

PATENT

REEL: 024202 FRAME: 0081

IN WITNESS WHEREOF this Deed of Assignment has been executed and delivered as a deed on the date which first appears on page 1 above.

## SCHEDULE

# <u>Patents</u>

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EVC TECHNOLOGY AG	Brunei Darussalam	Granted	9421136.4	20-Oct-94	30/98	21-May-99	20-Oct-14	Vinyl chloride production process
INEOS VINYLS UK LIMITED	China (Peoples Republic)	Granted	95196727.4	27-Sep-95	ZL95196727.4	14-Jan-04	27-Sep-15	Vinyl chioride production process
INEOS VINYLS UK LIMITED	Germany	Granted	95932878.2	27-Sep-95	69516163.6	05-Apr-00	27-Sep-15	Vinyt chloride production process
INEOS VINYLS UK LIMITED	France	Granted	95932878.2	27- <u>Sep-95</u>	0787117	05-Apr-00	27-Sep-15	Vinyl chloride production process
INEOS VINYLS UK LIMITED	United Kingdom	Granted	95932878.2	27-Sep-95	0787117	05-Apr-00	27-Sep-15	Vinyl chloride production process
EVC TECHNOLOGY AG	United Kingdom	Granted	9421136.4	20-Oct-94	2294262	09-Jun-98	20-Oct-14	Vinyl chloride production process
EVC TECHNOLOGY AG	India	Granted	1819/DEL/95	04-Oct-95	192197	13-Jun-05	04-Oct-15	Vinyl chloride production process
INEOS VINYLS UK LIMITED	ltaly	Granted	95932878.2	27-Sep-95	0787117	05-Apr-00	27-Sep-15	Vinyl chloride production process
INEOS VINYLS UK LIMITED	Japan	Granted	513753/96	27-Sep-95	3014456	17-Dec-99	27-Sep-15	Vinyl chloride production process
INEOS VINYLS UK LIMITED	Korea, Republic of	Granted	702578/97	27-Sep-95	274270	08-Sep-00	27-Sep-15	Vinyl chloride production process
INEOS VINYLS UK LIMITED	Malaysia	Granted	PI97001653	16-Apr-97	MY-115079-A	31-Mar-03	31-Mar-18	Vinyl chloride production process
TECHNOLOGY AG	Qatar	Pending		26-Sep-95				Vinyl chloride production process
EVC TECHNOLOGY AG	Saudi Arabia	Granted	95160426	29-Nov-95	486	23-Nov-05	29-Nov-15	Vinyl chloride production process
INEOS VINYLS UK LIMITED	Thailand	Granted	28193	29-Sep-95	11715	17-Jan-02	29-Sep-15	Vinyl chloride production process
INEOS VINYLS UK LIMITED	Taiwan	Granted	84110765	13-Oct-95	NI-086563	11-Sep-97	13-Oct-15	Vinyl chloride production process
INEOS VINYLS UK LIMITED	United States of America	Granted	08/817415	27-Sep-95	6180841	30-Jan-01	27-Sep-15	Vinyl chloride production process
EVC TECHNOLOGÝ AG	Venezuela	Pending	1790/95	10-Oct-95			10-Oct-15	Vinyl chloride production process
INEOS VINYLS								Oxychlorination of Ethylene in Two Stage Fixed-Bed
UK LIMITED	Belgium	Granted	96902403,5	01-Feb-96	0810985	08-Dec-99	01-Feb-16	Reactor Oxychlorination of Ethylene in
INEOS VINYLS UK LIMITED	China (Peoples Republic)	Granted	96192064.5	01-Feb-96	ZL96192064.5	17-Feb-01	01-Feb-16	Two Stage Fixed-Bed Reactor
(NEOS VINYLS								Oxychlorination of Ethylene in Two Stage Fixed-Bad
UK LIMITED	Japan Korea,	Granted	525532/96	01-Feb-96	3058696	21-Apr-00	01-Feb-16	Oxychlorinatio of Ethylene in
UKLIMITED	Republic of	Granted	705081/97	01-Feb-96	241085	01-Nov-99	01-Feb-16	Two Stage Fixed-Bed

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CONSTRUCTOR SALVAGE TO								Reactor
								Oxychlorination of Ethylene in Two Stage
INEOS VINYLS UK LIMITED	Taiwan	Granted	85101631	09-Feb-96	NI-105151	11~Jul-99	09-Feb-16	Fixed-Bed Reactor
INEOS VINYLS	United States of							Oxychlorination of Ethylene in Two Stage Fixed-Bed
UKLIMITED	America	Granted	08/694288	01-Feb-96	5841009	24-Nov-98	01-Feb-16	Reactor Catalyst, Process for its
INEOS VINYLS				1				Preparation, and its use in the Synthesis of 1,2-
UK LIMITED	Belgium	Granted	99900096.1	06-Jan-99	1045731	05~Jun-02	06-Jan-19	Dichloroethane Catalyst,
INEOS VINYLS	Czech							Process for its Preparation, and its use in the Synthesis of 1,2-
UK LIMITED	Republic	Granted	PV2000-2511	06-Jan-99	299892	12-Nov-08	06-Jan-19	Dichloroethane Catalyst, Process for its
INEOS VINYLS							20.1.40	Preparation, and its use in the Synthesis of 1,2-
UK LIMITED	Germany	Granted	99900096,1	06-Jan-99	69901676.2	05-Jun-02	06-Jan-19	Dichloroethane Catalyst,
INEOS VINYLS				 				Process for its Preparation, and its use in the Synthesis of 1,2-
UK LIMITED	France	Granted	99900096.1	06-Jan-99	1045731	05-Jun-02	06-Jan-19	Dichloroethane Catalyst,
INEOS VINYLS			-					Process for its Preparation, and its use in the Synthesis
UK LIMITED	Japan	Pending	2000-527353	06-Jan-99		<del></del>		of 1,2- Dichloroethane
INEOS VINYLS		Control	20000 40 4	00 11-00	200404	02-Oct-06	06-Jan-19	Catalyst, Process for its Preparation, and its use in the Synthesis of 1,2-
UK LIMITED	Norway	Granted	20003494	06-Jan-99	322404	02-061-06	00-Jan-19	Dichloroethane Catalyst, Process for its
INEOS VINYLS UK LIMITED	Ukraine	Granted	2000084711	06-Jan-99	63987	16-Feb-04	06-Jan-19	Preparation, and its use in the Synthesis of 1,2- Dichloroethane
	MILES		200004111	00 3211-05	3300			Catalyst, Process for its Preparation,
INEOS VINYLS UK LIMITED	United States of America	Granted	09/582887	06-Jan-99	6777373	17- <u>Aug</u> -04	06-Jan-19	and its use in the Synthesis of 1,2- Dichlorosthane
INEOS VINYLS UK LIMITED	Beiglum	Granted	99303973.4	21-May-99	1053789	14~Jul-04	21-May-19	Catalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	Czech Republic	Granted	PV2000-1490	21-Apr-00	296101	07-Nov-05	21-Apr-20	Catalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	Germany	Granted	99303973.4	21-May-99	69918672.2	14-Jul-04	21-May-19	Catalyst and oxychiorination
INEOS VINYLS UK LIMITED	Spain	Granted	99303973.4	21-May-99	1053789	14-Jul-04	21-May-19	Catalyst and oxychlorination

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INEOS VINYLS UK LIMITED	France	Granted	99303973.4	21-May-99	1053789	14-Jul-04	21-May-19	oxychiorination process using it
INEOS VINYLS UK LIMITED	United Kingdom	Granted	99303973.4	21-May-99	1053789	14-Jul-04	21-May-19	Catalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	Italy	Granted	99303973.4	21-May-99	1053789	14-Jul-04	21-May-19	Catalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	Japan	Pending	2000-135406	09-May-00			09-May-21	Catalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	Korea, Republic of	Granted	23236/2000	01-May-00	613656	10-Aug-06	01-May-20	Catalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	Netherlands	Granted	99303973.4	21-May-99	1053789	14-Jul-04	21-May-19	Catalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	Sweden	Granted	99303973.4	21-May-99	1053789	14-Jul-04	21-May-19	Cetalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	<u> Talwan</u>	Granted	89106790	12-Apr-00	1282749	21-Jun-07	12-Apr-20	Catalyst and exychlorination process using it
INEOS VINYLS UK LIMITED	United States of America	Granted	09/567282	08-May-00	6465701	15-Oct-02	08-May-20	Catalyst and oxychlorination process using it
INEOS VINYLS UK LIMITED	Belgium	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Brazil	Pending	Pi0519028-2	14-Dec-05			14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Canada	Pending	2589790	14-Dec-05			14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	China (Péoples Republic)	Allowed	200580042576. 3	14-Dec-05			14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Czech Republic	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Germany	Granted	05818356.7	14-Dec-05	602005009018.5	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Spain	Granted	05818356.7	14-Dec-05	2309824	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	France	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	United Kingdom	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Hungary	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITÉD	Indonesia	Published	W-00 2007 01840	14-Dec-05			14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	India	Published	4158/DELNP/ 2007	14-Dec-05			14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Iran (Islamic Republic of)	Pending	387071106	19- <u>Oct-08</u>			14-Dec-25	Polymerisation of vlnyt chloride monomer
INEOS VINYLS UK LIMITED	Italy	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Japan	Pending	2007-546177	14-Dec-05				Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Korea, Republic of	Pending	2007-7013350	14-Dec-05			14-Dec-25	Polymerisation of vinyl chloride monomer

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INEOS VINYLS UK LIMITED	Mexico	Pending	MX/a/2007/007 085	14-Dec-05	- J. (** ) J		14-Dec-25	Polymerisation of vinyl chlorida monomer
INEOS VINYLS UK LIMITED	Netherlands	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyt chloride monomer
INEOS VINYLS UK LIMITED	Poland	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Portugal	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Romania	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Sweden	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Slovakia	Granted	05818356.7	14-Dec-05	1824892	13-Aug-08	14-Dec-25	Polymenisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	United States of America	Pending	11/792085	14-Dec-05	100.1002	15 1135 00		Polymerisation of vinys chloride monomer
INEOS VINYLS UK LIMITED	Viet Nam	Pending	1-2007-01420	14-Dec-05			14-Dec-25	Polymerisation of vinyl chloride monomer
INEOS VINYLS UK LIMITED	Viet Nam	Pending	1-2008-00550	14-Dec-05			14-Dec-25	Polymerisation of vinyl chloride monomer
								Metallic monolith catalyst support for selective gas phase reactions in
INEOS VINYLS  UK LIMITED	Belgium	Granted	00308126.2	18-Sep-00	1110605	26-Nov-08	18-Sep-20	tubular fixed bed reactors
INEOS VINYLS								Metallic monolith catalyst support for selective gas phase reactions in tubular fixed
UKLIMITED	Germany	Granted	00308126.2	18-Sep-00	60040898.1-08	26-Nov-08	18-Sep-20	bed reactors Metallic
INEOS VINYLS UK LIMITED	France	Granted	00308126.2	18-Sep-00	1110505	26-Nov-08	18-Sep-20	monolith catalyst support for selective gas phase reactions in tubular fixed bed reactors
INEOS VINYLS	United States of America	Buhkahad	09/746040	22.000.00				Metallic monolith catalyst support for selective gas phase reactions in tubular fixed bed reactors
INEOS VINYLS UK LIMITED	China (Peoples Republic)	Published	09/746219	22-Dec-00	ZL03155026.6	25-Jul-07	31-Jul-23	A hollow pellet suitable as carrier of catalysts for selective exothermic reactions
INEOS VINYLS	European Patent Convention	Published	02255354.9	31-Jul-03	2103103026.6	20-)UI-U/	31-Jul-23	A hollow pellet suitable as carrier of catalysts for selective exothermic

कार्यक्रमा के प्रियम स्थापन के राज्य म			े हुए। कराडी रेस्ट्रिक्स्पर्ये १९५३ कार व इंडिक्टर कराडी रेस्ट्रिक्स्पर्ये १९५३		4 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2			्रेस्ट प्राप्त कर भगति है। इस
AF HEIGHNES	w Children Co	2013/11/40	أأرب فالمؤول للأوار أأفروس	11.75	1991681885 NEX	4	15-71	965
EVC TECHNOLOGY AG	India	Pending	889/DEL/2003	11-Jul-03			11-Jul-23	A hollow pellet suitable as carrier of catalysts for selective exothermic reactions
INEOS VINYLS UK LIMITED	Japan	Pending	2003-283606	31-Jul-03			31-Jul-23	A hollow peliet suitable as carrier of catalysts for selective exothermic reactions
INEOS VINYLS UK LIMITED	Korea, Republic of	Pending	51377/2003	25-Jul-03			25-Jul-23	A hollow pelfet suitable as carrier of catalysts for selective exothermic reactions
INEOS VINYLS UK LIMITED	Talwan	Granted	092120227	24~Jul-03	1283605	11-Jul-07	24-Jul-23	A hollow petiet suitable as carrier of catalysts for selective exothermic reactions
INEOS VINYLS UK LIMITED	United States of America	Granted	10/630551	29-Jul-03	7141708	28-Nov-06	29~Jul- <u>2</u> 3	A hollow pellet suitable as carrier of catalysts for selective exothermic reactions

PATENT.

REEL: 024202 FRAME: 0087

Executed as a deed by NEOS VINYLS UK LIMITED acting by two directors	) Director
	) ) Director
Executed as a deed by NEOS TECHNOLOGIES (VINYLS) LIMITED acting by two directors	) Director

**PATENT** 

REEL: 024202 FRAME: 0088

INEOS VINYLS UK LIMITED acting by two directors	) Director
	) Director
Executed as a deed by INEOS TECHNOLOGIES (VINYLS) LIMITED acting by two directors	) ) ) Director
	) ) ) Director

Sountry	Case No.	' Agent	Agents Ref	Status	Appin No.	Filing Date Patent No. Grant Date Expiry Date
Vo. 81300806 10 6 mm aga	V133	NOXIN	4702-69	Allowed	11/792085	14-Dec-05
	V141	NIXON	4702-116	Allowed	09/746219	22-Dec-00

**RECORDED: 03/18/2010**