

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4340782

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT		
<b>SEQUENCE:</b>	3		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>		<b>Execution Date</b>	
THE DOW CHEMICAL COMPANY		09/07/2012	
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	DOW GLOBAL TECHNOLOGIES LLC		
<b>Street Address:</b>	2040 DOW CENTER		
<b>City:</b>	MIDLAND		
<b>State/Country:</b>	MICHIGAN		
<b>Postal Code:</b>	48674		
<b>PROPERTY NUMBERS Total: 1</b>			
<b>Property Type</b>	<b>Number</b>		
<b>Application Number:</b>	14405697		
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	(989)636-3237		
<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>	9896368537		
<b>Email:</b>	FGLMFRR@DOW.COM		
<b>Correspondent Name:</b>	KRISTIE ELLISON		
<b>Address Line 1:</b>	2040 DOW CENTER		
<b>Address Line 4:</b>	MIDLAND, MICHIGAN 48674		
<b>ATTORNEY DOCKET NUMBER:</b>	72863-US-PCT		
<b>NAME OF SUBMITTER:</b>	KRISTIE ELLISON		
<b>SIGNATURE:</b>	/Kristie Ellison/		
<b>DATE SIGNED:</b>	03/28/2017		
<b>Total Attachments: 3</b>			
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source=72863-US-PCT 20170328 TDCC to DGTL#page2.tif			
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This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number.

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FORM 440

# ASSIGNMENT

(with Priority Rights)  
and  
INVENTORSHIP DECLARATION

We, ASSIGNOR, of: **THE DOW CHEMICAL COMPANY**  
**2030 Dow Center**  
**Midland, Michigan 48674**  
**United States of America**

a corporation organized and existing under the laws of the State of Delaware, United States of America do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

Mou Paul, 6701 Indian Hills Road, Edina, Minnesota 55439, United States of America, Citizen of India and Abhishek Roy, 6701 Indian Hills Road, Edina, Minnesota 55439, United States of America, Citizen of India

by an Assignment dated: and, respectively of an invention relating to and entitled:

## THIN FILM COMPOSITE MEMBRANE DERIVED FROM TETRA-FUNCTIONAL ACYL HALIDE MONOMER

We do hereby declare, for good and valuable consideration, received, sell, assign, and transfer unto:

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**  
**2040 Dow Center**  
**Midland, Michigan 48674**  
**United States of America**

a limited liability company organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61/673,462	July 19, 2012	United States of America

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to insert here the corresponding Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Sworn by us at Midland, Michigan 48674, USA

this 7th day of September, 20 12

CORP.  
SEAL

THE DOW CHEMICAL COMPANY

By:

**DARRYL P. FRICKEY**

Assistant General Counsel - IP Law

Attach Notarial Certificate (Corporation)

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number

• 660 • 661 • 662 • 663 • 664 • 665 • 666 • 667 • 668 • 669 • 670 • 671 • 672 • 673 • 674 • 675 • 676 • 677 • 678 • 679 • 680 • 681 • 682 • 683 • 684 • 685 • 686 • 687 • 688 • 689 • 690 • 691 • 692 • 693 • 694 • 695 • 696 • 697 • 698 • 699 • 700 • 701 • 702 • 703 • 704 • 705 • 706 • 707 • 708 • 709 • 710 • 711 • 712 • 713 • 714 • 715 • 716 • 717 • 718 • 719 • 720 • 721 • 722 • 723 • 724 • 725 • 726 • 727 • 728 • 729 • 730 • 731 • 732 • 733 • 734 • 735 • 736 • 737 • 738 • 739 • 740 • 741 • 742 • 743 • 744 • 745 • 746 • 747 • 748 • 749 • 750 • 751 • 752 • 753 • 754 • 755 • 756 • 757 • 758 • 759 • 760 • 761 • 762 • 763 • 764 • 765 • 766 • 767 • 768 • 769 • 770 • 771 • 772 • 773 • 774 • 775 • 776 • 777 • 778 • 779 • 780 • 781 • 782 • 783 • 784 • 785 • 786 • 787 • 788 • 789 • 790 • 791 • 792 • 793 • 794 • 795 • 796 • 797 • 798 • 799 • 800 • 801 • 802 • 803 • 804 • 805 • 806 • 807 • 808 • 809 • 810 • 811 • 812 • 813 • 814 • 815 • 816 • 817 • 818 • 819 • 820 • 821 • 822 • 823 • 824 • 825 • 826 • 827 • 828 • 829 • 830 • 831 • 832 • 833 • 834 • 835 • 836 • 837 • 838 • 839 • 840 • 841 • 842 • 843 • 844 • 845 • 846 • 847 • 848 • 849 • 850 • 851 • 852 • 853 • 854 • 855 • 856 • 857 • 858 • 859 • 860 • 861 • 862 • 863 • 864 • 865 • 866 • 867 • 868 • 869 • 870 • 871 • 872 • 873 • 874 • 875 • 876 • 877 • 878 • 879 • 880 • 881 • 882 • 883 • 884 • 885 • 886 • 887 • 888 • 889 • 890 • 891 • 892 • 893 • 894 • 895 • 896 • 897 • 898 • 899 • 900 • 901 • 902 • 903 • 904 • 905 • 906 • 907 • 908 • 909 • 910 • 911 • 912 • 913 • 914 • 915 • 916 • 917 • 918 • 919 • 920 • 921 • 922 • 923 • 924 • 925 • 926 • 927 • 928 • 929 • 930 • 931 • 932 • 933 • 934 • 935 • 936 • 937 • 938 • 939 • 940 • 941 • 942 • 943 • 944 • 945 • 946 • 947 • 948 • 949 • 950 • 951 • 952 • 953 • 954 • 955 • 956 • 957 • 958 • 959 • 960 • 961 • 962 • 963 • 964 • 965 • 966 • 967 • 968 • 969 • 970 • 971 • 972 • 973 • 974 • 975 • 976 • 977 • 978 • 979 • 980 • 981 • 982 • 983 • 984 • 985 • 986 • 987 • 988 • 989 • 990 • 991 • 992 • 993 • 994 • 995 • 996 • 997 • 998 • 999 • 1000 •

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number  
FORM 660**ASSIGNEE ACCEPTANCE**

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**  
**2040 Dow Center**  
**Midland, Michigan 48674**  
**United States of America**

hereby accept the ASSIGNMENT attached hereto which is dated: September 7, 2012

From, the ASSIGNOR:  
**THE DOW CHEMICAL COMPANY**  
**2030 Dow Center**  
**Midland, Michigan 48674**  
**United States of America**

of the invention entitled:

**THIN FILM COMPOSITE MEMBRANE DERIVED FROM TETRA-FUNCTIONAL ACYL  
 HALIDE MONOMER**

without any restrictions and with all rights and obligations deriving therefrom and declare that this  
 confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA

this 10 day of September, 20 12

CORP.  
 SEAL

**DOW GLOBAL TECHNOLOGIES LLC**

By: Susan M Zerull  
**SUSAN M. ZERULL**  
 Authorized Representative

**NOTARIAL CERTIFICATE (Corporation)**

UNITED STATES OF AMERICA )  
 STATE OF MICHIGAN ) SS  
 County/Parish of Midland )

On this 10 day of September, 20 12, personally appeared  
 before me, **SUSAN M. ZERULL, Authorized Representative**,  
 known or identified to me to be the individual described in and who executed the foregoing document  
 and acknowledged the same as a free act and deed for uses and purposes therein expressed by  
 authority of the said limited liability company under the laws of the **State of Delaware, United**  
**States of America.**

I further certify that said authority, dated **June 1, 2012**, is based on

**A delegation of signature authority of said Limited Liability Company**

which I have seen, appointing the said individual Authorized Representative with full power to sign  
 the foregoing document on behalf of the said limited liability company and that the purposes for  
 which said document is granted are within the scope of the objects or activities of said limited  
 liability company.

SEAL

Kathy Sue Wertz  
**Kathy Sue Wertz**  
 NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN  
 MY COMMISSION EXPIRES APRIL 07, 2018

[illegible]

This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 number.