10-07-2003



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TATEIVIO C.	Patent & Trademark Office			
To the Commissioner of Patents: Please record the attached or				
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):			
YALURIS, George PUDESH I John Allen	Names WD Core C.C. C.			
RUDESILL, John Allen	Name: W.R. Grace & CoConn.			
	Internal Address - Detail Detail			
Additional name(s) of accuracing marty(ins) -44-1-10 V	Internal Address: Patent Department			
Additional name(s) of conveying party(ies) attached? Yes No				
140 🖾	Street Address: 7500 Grace Drive			
	Street Address: /500 Grace Drive			
3. Nature of Conveyance:				
at the same of company and the same of the				
☐ Assignment ☐ Merger ☐ Security Agreement	City: Columbia			
	State: Maryland Zip Code: 21044			
Change of Name Other:	State. Maryland Zip Code: 21044			
	Additional name(s) & address(es) attached? Yes No			
Execution Date: October 18, 2002	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
4. Application Number(s) or Patent Number(s): If this de	ocument is being filed together with a new application			
	ion date of this application is:			
the execution				
A. Patent Application No.(s): 10/274,811				
B. Patent No.(s):				
	Additional Numbers Attached? Yes No			
5. Name and address of party to whom correspondence	6. Total number of applications and patents			
concerning document should be mailed:	involved: 1			
j	_			
Name: Beverly J. Artale				
·				
Internal Address: Docket # W9556-01	7. Total Fee (37 CFR 3.41): \$40.00			
Patent Department				
W. R. Grace & CoConn.	Authorized to be charged to Deposit Account			
Street Address: 7500 Grace Dr.				
	8. Deposit Account Number: <u>07-1770</u>			
	P			
	(Duplicate copy of this sheet is attached.)			
City: Columbia	· · · · · · · · · · · · · · · · · · ·			
State: Maryland Zip Code: 21044				
DO NOT USE	THIS SPACE			
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 of the original document.				
andened copy is a inde copy of the original document.				
Beverly J. Artale Beverly J. Untalefrent 9/23/03				
Beverly J. Artale Surely J. Wilale Japan 1/23/03				
Name of Person Signing Signature	Date			
	ages including cover sheet attachments and document:			
	iges, metuding cover sheet, attachments, and document.			
	ith required cover sheet information to:			
Commissioner for Patents, Mail Stop Assignments				

P.O. Box 1450, Alexandria, VA 22313-1450

10/06/2003 GTON11 00000266 071770 10274811 OL FC:8021

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PATENT

REEL: 014549 FRAME: 0941

ASSIGNMENT

	Inventor or Inventors:	
George Yaluris	John Allen Rudesill	

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

 UNDERSIGNED hereby assign(s) to W. R. Grace & CoConn., a corporation organized
and existing under the laws of the of the State of Connecticut, its successors and assigns, herein referred to
collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries
including Patent Corporation Treaty (PCT), in and to UNDERSIGNED's (a) inventions described in the
patent application entitled:

NOx Reduction Compositions for Use in FCC Processes;

said application having been executed on the	day of	, 19	;		
and being further identified as U.S. Serial No.	, filed in	the United	States F	atent and Trademark	
Office on ; (b) all patents and patent applicati	ions (inclu	iding contin	uations	(e.g., continuations-in	_
part), re-issues and re-examinations) covering said i	inventions	s, or improv	ements	or modifications there	to
(collectively and individually referred to hereinafter	r as INVE	NTIONS(S)); (c) al	ll foreign applications.	
including PCT application; and (d) all rights of prior	rity create	ed by said a	pplication	on(s) under provisions	of
international conventions or treaties.	•			.,	

- (2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for, and documents relating to, obtaining patents and the prosecution thereof for said INVENTION(S) and any continuations or re-issues of such applications or substitutes therefor or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office, and any foreign patent office that ASSIGNEE may deem necessary or expedient.
- (3) UNDERSIGNED agree(s) that in the event of any application based on said assigned INVENTION(S) or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.
- (4) UNDERSIGNED agree(s) to perform, upon ASSIGNEE's request, any and all affirmative acts to obtain United States and foreign patents covering said INVENTION(S) and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.
- (5) UNDERSIGNED hereby authorize(s) ASSIGNEE's attorney to insert at paragraph 1, in this instrument, the date(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application, as well as the filing date and application number thereof when known.

Page 1 of 2

PATENT REEL: 014549 FRAME: 0942

IN WITNESS W opposite UNDERSIGNED		, this assignment has been executed	by UNDERSIGNED on the date
			Witness The Habil
Date 10/18/02	Inventor	John Allen Rudesill	Witness Schreff (154)
Date	Inventor	(LS)	Witness
Date	Inventor	(LS)	Witness
Date	Inventor	(LS)	Witness
Date	Inventor	(LS)	Witness
Date	Inventor	(LS)	Witness
Date	Inventor	(LS)	Witness
Date	Inventor	(LS)	Witness
Date	Inventor	(LS)	Witness

Page 2 of 2

ASSIGNMENT

	Inventor or Inventors:	
George Yaluris	John Allen Rudesill	

UNDERSIGNED hereby assign(s) to W. R. Grace & Co.-Conn., a corporation organized

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

and existing under the laws of the of the State of Connecticut, its successors and assigns, herein referred to

(1)

international conventions or treaties.

collectively as ASSIGNEE, the entire right, title ar	id interest, for the United States and all foreign countries
including Patent Corporation Treaty (PCT), in and	to UNDERSIGNED's (a) inventions described in the
patent application entitled:	
NOx Reduction Compositions for Use in FCC P	rocesses;
said application having been executed on the	day of , 19 ;
and being further identified as U.S. Serial No.	, filed in the United States Patent and Trademark
Office on ; (b) all patents and patent applicat	tions (including continuations (e.g., continuations-in-
part), re-issues and re-examinations) covering said	inventions, or improvements or modifications thereto
(collectively and individually referred to hereinafte	er as INVENTIONS(S)); (c) all foreign applications,

including PCT application; and (d) all rights of priority created by said application(s) under provisions of

- (2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for, and documents relating to, obtaining patents and the prosecution thereof for said INVENTION(S) and any continuations or re-issues of such applications or substitutes therefor or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office, and any foreign patent office that ASSIGNEE may deem necessary or expedient.
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Page 1 of 2

PATENT REEL: 014549 FRAME: 0944

opposi	ite UNDERSIGNED		this assignment has been executed	on the date
Date	10/18/02	Inventor	George Yaluris (LS)	Witness July Land
Date	10/18/02	Inventor	John allen Rudesill	Witness Schreff Cuta
				Witness
Date		Inventor	(LS)	Witness
Date		Inventor	(LS)	Witness
Date	· · · · · · · · · · · · · · · · · · ·	Inventor	(LS)	Witness
Date		Inventor	(LS)	Witness
Date		Inventor	(LS)	Witness
Date		Inventor	(LS)	Witness
Date		Inventor	(LS)	Witness

Page 2 of 2

ASSIGNMENT

	Inventor or Inventors:	
George Yaluris	John Allen Rudesill	

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(1)	UNDERSIGNED hereby assign(s) to W. R. Grace & CoConn., a corporation organized
and existing und	ler the laws of the of the State of Connecticut, its successors and assigns, herein referred to
collectively as A	ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries.
including Patent	t Corporation Treaty (PCT), in and to UNDERSIGNED's (a) inventions described in the
patent application	on entitled:

NOx Reduction Compositions for Use in FCC Processes;

said application having been executed on the	day of	, 19	;	
and being further identified as U.S. Serial No.	, filed in	the United	States I	Patent and Trademark
Office on ; (b) all patents and patent applicati				
part), re-issues and re-examinations) covering said	inventions	s, or improv	ements	or modifications thereto
(collectively and individually referred to hereinafter	r as INVE	NTIONS(S)); (c) a	Il foreign applications.
including PCT application; and (d) all rights of prior	ority create	d by said a	pplication	on(s) under provisions of
international conventions or treaties.	-	- ,		, F

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Page 1 of 2

PATENT REEL: 014549 FRAME: 0946

oppos	ite UNDERSIGNED		this assignment has been executed.	d by UNDERSIGNED on the date
Date	10/18/02	Inventor	George Yaluris (LS)	Witness June Later
Date	10/18/02	Inventor	John Allen Rudesill	Witness Schredy (1844)
				Witness
Date		Inventor	(LS)	Witness
Date		Inventor	(LS)	Witness
Date		Inventor	(LS)	Witness
Date		Inventor	(LS)	Witness
Date	***	Inventor	(LS)	Witness
Date	<u>-</u>	Inventor	(LS)	Witness
Date	7/	Inventor	(LS)	Witness

Page 2 of 2