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U.S. Department of Commerce Patent and Trademark Office PATENT



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Conveying Party(ies)	Mark if additional na	mes of conveying pa	rties attached Execution Date Month Day Year
Name (line 1) PENNLINE, Henry W.			11/28/2001
Name (line 2)			
Second Party			Execution Date Month Day Year
Name (line 1) GRANITE, Evan J.			11/28/2001
Name (line 2)			
Receiving Party	Mark	if additional names o	f receiving parties attached
Name (line 1) U. S. Department of Energy			If document to be recorded
realite (interty) c. S. Department of Burigy			is an assignment and the receiving party is not
Name (line 2)			domiciled in the United States, an appointment
Address (line 1) 1000 Independence Avenue, S.W.			of a domestic representative is attached. (Designation must be a
Address (line 1) 1000 independence Avenue, 5.44.			separate document from Assignment.)
Address (line 2)			Assignment.)
Address (line 3) Washington	D.C.	2058	5-0162
City	2101		_
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Domestic Representative Name and Ac	State/Country	Zip the first Receiving Pa	
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Domestic Representative Name and Ac	State/Country		
Name Address (line 1)	State/Country		
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U.S. Department of Commerce Patent and Trademark Office PATENT

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Correspondent Name and Address	Area Code and Telephone Number	202-586-2810
Name Betty A. Winchester		
Address (line 1) MS 6F-067 (FORSTL), GC-62		
Address (line 2) United States Department of Energy	У	
Address (line 3) 1000 Independence Avenue, S. W.		
Address (line 4) Washington, D. C. 20585-0162		
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attached copy is a true copy of the indicated herein. Betty A. Winchester	pelief, the foregoing information is true original document. Charges to depo	e and correct and any sit account are authorized, as JUN 1 9 2002 Date
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Conveying F	Conveying Parties	mark ii additional	names of conveying parties a	Execution Date
-	FREEMAN, Mark C.		JUN 1 9 2002 S	Month Day Year
			Jun 1 3 2002	11/20/2001
Name (line 2)			To re LD	Execution Date Month Day Year
Name (line 1)	HARGIS, Richard A.		N. A. I. A.	11/28/2001
Name (line 2)				7
Na (1: d)	O'DOWD, William J.			Execution Date Month Day Year
Name (line 1)	O DOWD, William J.			11/28/2001
Name (line 2)	*			_
Receiving P	arty	Ma	rk if additional names of rece	iving parties attached
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Name (line 2)				receiving party is not domiciled in the United States, an appointment of a domestic
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Address (line 2)				Assignment.)
Address (line 3)	City	State/Country	Zip Code	
г	Ony	State/Sound y	Zip code	If document to be recorded
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Name (line 2)				domiciled in the United States, an appointment of a domestic
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Address (line 2)				Assignment.)
Address (line 3)				
	City	State/Country	Zip Code	
	Number(s) or Patent No		<u></u>	numbers attached
	e Patent Application Number or th	e Patent Number (DO NOT ENTE		
Pa	tent Application Number(s)		Patent Number	er(s)
10/040758				

PATENT REEL: 013012 FRAME: 0052

U.S. Department of Energy

PATENT ASSIGNMENT FORM

WHEREAS WE Henry W Pennline Evan J. Granite Mark C. Freeman

militario, me, incini, me i distributio, et al. distribution of the committee		
<u>Richard A. Hargis and William J. O'Dowd</u> , citizens of the United States		
residing		
<pre>in_Bethel Park</pre>		
in Wexford , County of Allegheny , State of Pennsylvania ;		
in_South Park Townshipunty of Allegheny . State of Pennsylvania ;		
in Canonsburg . County of Washington . State of Pennsylvania ;		
in_Charleroi, County of Washington, State of Pennsylvania;		
have invented certain new and useful improvements in <u>THE THIEF PROCESS FOR</u>		
THE REMOVAL OF MERCURY FROM FLUE GAS , for which we are about to file an		
application for United States Letters Patent identified as <u>S-96,044</u> and		
executed by us on the 25^{m} day of 100° 2001; and on the 25^{m} day of		
Nov 2001; and on the 28th day of NOV 2001; and on the 28th		
day of NOV 2001; and on the 28th day of NOV 2001;		
WHEREAS, the Government of the United States desires to acquire the entire right, title, and interest in and to said invention and in and to any Letters Patent wherever they may be issued thereon;		

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar to us in hand paid by the Government of the United States, and for other good and valuable consideration, the receipt of which is hereby acknowledged, we by these presents do sell, assign, and transfer unto the said Government of the United States, as represented by the united States Department of Energy, and/or its assigns, the entire right, title, and interest in and to the said invention and in and to any and all Letters Patent wherever they may be granted thereon as well as reissues and extensions of said Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held or enjoyed by us had this assignment not been made.

We agree to make, execute, and deliver unto the Government of the United States, or to the United States Department of Energy, any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other forms, terms and contents as may be required by the United States Department of Energy, or its duly authorized representative, in or incident to the prosecution or conduct of any and all applications, before as well as after the issuance of any Letters thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said applications may encounter or in which they may become involved and we agree that we will encounter or in which they may become involved and we agree that we will aid the Government of the United States in every way in protecting the inventions as may be requested by the United States Department of Energy or its assigns, except that any expenses arising through extending such assistance will be paid for by proper arrangement with the Government of the United States.

PATENT REEL: 013012 FRAME: 0053

WITNESS: (SEAL)	INVENTORS: /demw. Pill Date 11/28/01
WITNESS: Charle Dunlap (SEAL)	INVENTORS: 2m f Site Date 11/28/01
WITNESS: Willey (SEAL)	Date 11/280
WITNESS: (SEAL)	INVENTORS: Rulano Ottlaj Date 11/28/01
WITNESS: (SEAL)	Date 1./28/01
Approved and consented to this	day of, 20
ATTEST:	
(SEAL)	ByThe University of Chicago Its
Accepted for the Benefit of the Go	vernment of the United States.
	UNITED STATES DEPARTMENT OF ENERGY
WITNESS:	By Cattle Assistant General Counsel for Patents
	A3313 Carlo derici di

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PATENT REEL: 013012 FRAME: 0054