Form PTO-1595	RECORDATION FO	
	PATENT	S ONLY Patent and Trademark Office
To the Honorabk	e Commissioner of Patents and Trademarks:	Please record the attached original documents or copy thereof.
1. Name of conveying 1. Yung-An CHAO 2. Shengyi Sl 3. Frank D. POPA Additional name(s) of conve 3. Nature of conveyant x Assignment Security Agreemen Other Execution Date: 5/10/ 4. Application number	ying party(les) attached? Yes X No nce: Merger t Change of Name	2. Name and address of receiving party(les): Name: Westinghouse Electric Co. LLC Street Address: Law Department - IPS P.O. Box 355 Pittsburgh, PA 15230-0355 Additional name(s) & address(es) attached? Yes X No Filling Date: 2/25/03
If this document is	being filed together with a new appli	cation, the execution date of the application is:
A. Patent Application	n No.(s)	B. Patent No.(s)
	Additional numbers attac	ched? Yes X No
Name and address concerning documents Name: Internal Address: Street Address:	ent should be mailed: Patricia Leshnock Westinghouse Electric Co. LLC Law Department - IPS Energy Center - Room 205E 4350 Northern Pike Monroeville, PA 15146-2866	6. Total number of applications and patents involved: 1
	•	7. Fotal fee (37 CFR 3.41)
		Deposit account number: 50-0947 (Attach duplicate copy of this page if paying by deposit account)
	DO NOT US	E THIS SPACE
9. Statement and sig To the best of and any attac Patricia Leshi Name of Pers	f my knowledge and belief, the forego hed copy is a true copy of the origina- nock on Signing	ing information is true and correct I document. C 3/03 Fure Date ver sheet, attachments, and document:
OMB No. 0651-0011 (exp	. 4/94)	

Docket No. ARF2002-017

ASSIGNMENT

In accordance with existing Employee Intellectual Property Agreement(s) and/or other undertakings, entered into for good and valuable consideration, receipt of which is hereby acknowledged, I, Yung-An CHAO, residing at 5391 Northmoberland St., Pittsburgh, PA 15217; Shengyi SI, residing at Building 35, Apt. 1305, 85 Guilin Street West, Shanghai 200233, Peoples Republic of China; and Frank D. POPA, residing at 3519 Ivy Drive, Murrysville, PA 15668; hereby sell and assign to WESTINGHOUSE ELECTRIC COMPANY LLC, a Limited Liability Company organized and existing under the laws of the state of Delaware, U.S.A., having its principal place of business at 4350 Northern Pike, Monroeville, Pennsylvania 15146-2866, U.S.A., its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention in METHOD OF ESTABLISHING A NUCLEAR REACTOR CORE FUEL ASSEMBLY LOADING PATTERN invented by me and the application for United States patent therefor, executed on the day of
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this day of, 20
Yung-An CHAO
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this <u>20</u> day of
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this day of, 20
Frank D. POPA

PATENT REEL: 013702 FRAME: 0011 Docket No. ARF2002-017

ASSIGNMENT

In accordance with existing Employee Intellectual Property Agreement(s) and/or other undertakings, entered into for good and valuable consideration, receipt of which is hereby acknowledged, I, Yung-An CHAO, residing at 5391 Northumberland St., Pittsburgh, PA 15217; Shengyi SI, residing at Building 35, Apt. 1305, 85 Guilin Street West, Shanghai 200233, Peoples Republic of China; and Frank D. POPA, residing at 3519 Ivy Drive, Murrysville, PA 15668; hereby sell and assign to WESTINGHOUSE ELECTRIC COMPANY LLC, a Limited Liability Company organized and existing under the laws of the state of Delaware, U.S.A., having its principal place of business at 4350 Northern Pike, Monroeville, Pennsylvania 15146-2866, U.S.A., its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention in METHOD OF ESTABLISHING A NUCLEAR REACTOR CORE FUEL ASSEMBLY LOADING PATTERN invented by me and the application for United States patent therefor, executed on the _, 20<u>_**07**;</u>

_, 20 day of ay of May and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents and Utility Model Registrations in countries foreign to the United States, and in and to any Letters Patent or Utility Model Registration which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent or Utility Model Registration to the said WESTINGHOUSE ELECTRIC COMPANY LLC its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that I have full right to convey the entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith, and agree that I will communicate to said Company, its successors, assigns, nominees or other legal representatives, all facts known to me respecting said invention, whenever requested, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said WESTINGHOUSE ELECTRIC COMPANY LLC its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, I will, upon request, sign all lawful papers requisite for the filing of such disclaimer, and I further covenant and agree that I will, at any time upon request, do everything legally possible to aid said Company, its successors, assigns, nominees or other legal representatives, either in its or their own name, to apply for, obtain and enforce proper patent and/or Utility Model protection for said invention in all countries, all without further consideration but at the expense of said WESTINGHOUSE ELECTRIC COMPANY LLC its successors, assigns, nominees or other legal representatives.

may	in testimony whereof, I have hereunto set my hand and seal this oday of
	IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this day of, 20
May	Shengyi SI IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 9th day of 2003. Frank D. POPA

PATENT REEL: 013702 FRAME: 0012