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To the Honorable Commissioner of Patents and

ial documents or copy thereof.

1. Name of conveying party(ies): YAOXIAO ZHU, ZHI ZHENG, QINGQUAN ZENG, XIUZHEN NING, LANGHONG LOU, SHIQUN XU, GUOQING WANG and QINGJU BAI

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

2. Name and address of receiving party(ies) Name: 1) CHINA PETRO-CHEMICAL CORPORATION

Address: No. 6A Hui Xin East St. Chao Yang District, Beijing 100029, China

City: \_ State: \_ Zip: \_

Additional name(s) and address(es) attached? [X] Yes [ ] No

3. Nature of conveyance:

[X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name

[ ] Other

Execution Date: November 8, 1999

4. Application number(s) or patent number(s)

If this document is being filed together with a new application, the execution date of the application is \_\_\_\_

A. Patent Application No.(s) Serial No. (09/396,639) filed September 16, 1999.

B. Patent No.(s)

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Ronald B. Hildreth

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Address: 30 Rockefeller Plaza - 44 Fl.

City: New York State: NY Zip: 10112

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

[ ] Enclosed [X] Authorized to be charged to deposit account

8. Deposit account number:

02-4377

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To the best of my knowledge and belief, the foregoing instrumentation is true and correct and any attached copy is a true copy of the original document.

Ronald B. Hildreth

Name of Person Signing

[Handwritten Signature]

Signature

December 10, 1999

Date

Total number of pages including cover sheet, attachments and document: 8

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10. Name of **receiving** party(ies):

Name: 2) INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA

Address: No. 72 Wenhua Road, Shenyang 110015, China

Name: 3) CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY

Address: P.O. Box 1442, He Ping Li, Chaoyang District, Beijing 100013, China

11. Application number(s) or registration number(s):

A. Patent Application No.(s)

B. Patent Registration No.(s)

Page \_\_\_\_ of \_\_\_\_

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A S S I G N M E N T

WHEREAS, WE, YAOXIAO ZHU, ZHI ZHENG, QINGQUAN ZENG, XIUZHEN NING, LANGHONG LOU, SHIQUN XU, GUOQING WANG and QINGJU BAI, citizens of China, respectively, residing in China whose post office addresses are No. 91, Wencui Road, Dongling District, Shenyang 110015, China, No. 91, Wencui Road, Dongling District, Shenyang 110015, China, Box 1442, Hepingli, Beijing 100013, China, No. 91, Wencui Road, Dongling District, Shenyang 110015, China, No. 91, Wencui Road, Dongling District, Shenyang 110015, China, 6A Huixindong Street, Chaoyang District, Beijing 100029, China, P.O. Box 1442, Hepingli, Beijing 100013, China and No. 91, Wencui Road, Dongling District, Shenyang 110015, China, respectively, have made an invention entitled "A HEAT EXCHANGER TUBE, A METHOD FOR MAKING THE SAME, AND A CRACKING FURNACE OR OTHER TUBULAR HEAT FURNACES USING THE HEAT EXCHANGER TUBE " as set forth and described in application for Letters Patent of the United States, Serial No. 09/396,639, filed September 16, 1999; and

WHEREAS, CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, corporations organized and existing under the laws of China, and having offices for the transaction of business at No. 6A Hui Xin East St. Chao Yang District, Beijing 100029, China, No. 72 Wenhua Road, Shenyang 110015, China and P.O. Box 1442, He Ping Li, Chaoyang District, Beijing 100013, China, are desirous of acquiring the entire right, title and interest in and to said invention and any improvements thereon, and in and to the said application for Letters Patent therefor, and any Letters Patent which may be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said YAOXIAO ZHU, ZHI ZHENG, QINGQUAN ZENG, XIUZHEN NING, LANGHONG LOU, SHIQUN XU, GUOQING WANG and QINGJU BAI, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, and other valuable considerations unto us moving from said CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH,

SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, at or before the ensealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, its successors and assigns, the entire right, title and interest in and to the said invention entitled "A HEAT EXCHANGER TUBE, A METHOD FOR MAKING THE SAME, AND A CRACKING FURNACE OR OTHER TUBULAR HEAT FURNACES USING THE HEAT EXCHANGER TUBE " as set forth and described in application for Letters Patent of the United States, Serial No. 09/396,639, filed September 16, 1999, and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said YAOXIAO ZHU, ZHI ZHENG, QINGQUAN ZENG, XIUZHEN NING, LANGHONG LOU, SHIQUN XU, GUOQING WANG and QINGJU BAI, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, its successors and assigns;

AND WE, the said YAOXIAO ZHU, ZHI ZHENG, QINGQUAN ZENG, XIUZHEN NING, LANGHONG LOU, SHIQUN XU, GUOQING WANG and QINGJU BAI, for the considerations aforesaid, do hereby covenant and agree to and with said CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and

make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, its successors and assigns, may be required or necessary more effectively to secure to and vest in said CHINA PETRO-CHEMICAL CORPORATION, INSTITUTE OF METAL RESEARCH, SCIENCE ACADEMY OF CHINA and CHINA PETRO-CHEMICAL CORPORATION BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

Subscribed and executed at Beijing  
(Place)

on 10.17.2000  
(Date)

YAOXIAO ZHU

YAOXIAO ZHU

Witness: Wang Yi  
(Type Name)

Witness: Zhi Zheng  
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ZHI ZHENG

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Witness: YAOXIAO ZHU  
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Witness: Xu Shixing  
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Witness: Zheng Shi Meng Shi  
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Witness: Xu Shixing Xu Shixing  
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Subscribed and executed at Beijing  
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QINGJU BAI

QINGJU BAI

Witness: Yanggu Mei Yanggu Mei  
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Witness: Zhengshi Zhengshi  
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