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al documents or copy thereof.

28-01

TO THE ASSISTANT COMMISSIONER F

1. Name of conveying party(ies): (If multiple assignors, list numerically)

- a) Roger Palmans
- b) Joost Waeterloos
- c) Gilbert Declerck

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

2. Name and address of receiving party(ies):

Name: IMEC vzw  
Internal Address:  
Street Address: Kapeldreef 75  
City: B-3001 Leuven State: Belgium ZIP:

Additional name(s) of receiving party(ies) attached?  
( ) Yes (X) No

3. Nature of conveyance:

- (X) Assignment
- ( ) Change of Name
- ( ) Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above)

- a) July 2, 1999
- b) July 8, 1999
- c) July 8, 1999

4. Application number(s) or Patent number(s):

( ) Application(s) filed herewith Execution Date(s):

(X) Patent Application No.: 09/348,553  
Filing Date: July 7, 1999

( ) Patent No.:  
Issue Date:

Additional numbers attached? ( ) Yes (X) No

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

Name: Richard E. Campbell  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
Customer No. 20,995  
Internal Address: Sixteenth Floor  
Street Address: 620 Newport Center Drive  
City: Newport Beach State: CA ZIP: 92660  
Attorney's Docket No.: IMEC178.001AUS

7. Total fee (37 CFR 3.41): \$40

- (X) Enclosed
- ( ) Authorized to be charged to deposit account

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

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.

Richard E. Campbell  
Name of Person Signing

Signature

2/5/01  
Date

34,790  
Registration No.

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:

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# ASSIGNMENT

Case No.: IMEC 178.001AUS

Serial No.: 09/348,553

Inventor: **Palmans et al.**

Date of Execution

of Application: \_\_\_\_\_

Filing Date: 07/07/99

For good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to:

**IMEC vzw, Kapeldreef 75, B-3001 Leuven  
a research center in the country of Belgium**

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**Method for forming copper-containing metal studs**

and identified as:

**Case No. IMEC 178.001AUS**

in the offices of KNOBBE, MARTENS, OLSON & BEAR and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorises and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

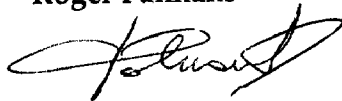
The undersigned hereby authorises and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrants himself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorises said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Full name of first inventor : **Roger Palmans**

Inventor's signature :



Date : 2-7-99

Residence :

**Sieberg 43, 3770 Riemst, Belgium**

Citizenship :

**Belgian citizen**

Full name of second inventor : **Joost Waeterloos**

Inventor's signature :



Date : 8-7-99

Residence :

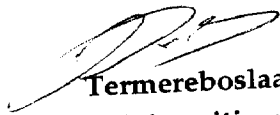
**Leeuwerikenstraat 49/54, 3001 Leuven, Belgium**

Citizenship :

**Belgian citizen**

Full name of second inventor : **Gibert Declerck**

Inventor's signature :



Date :

Residence :

**Termereboslaan 13, 3020 Winksele, Belgium**

Citizenship :

**Belgian citizen**