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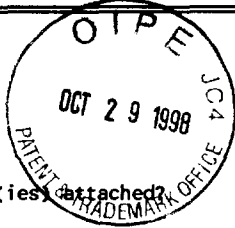
U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office SHEET

torney Docket No.: P62196USO

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hoai Sig Kang



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

HYUNDAI ELECTRONICS INDUSTRIES CO., LTD.

Internal Address:

Street Address: San 136-1, Ami-ri, Bubal-eub, Ichon-shi

City: Kyongki-do State: Korea ZIP: 467-860

Add'l name(s) & address(es) attached? Yes X No

Additional name(s) of conveying party(ies) attached?

Yes X No

3. Nature of conveyance:

X Assignment Merger Security Agreement Change of Name Other

Execution Dates: June 15, 1998

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) 09/104,543, filed June 26, 1998

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: Yoon S. Ham, Esq.

Internal Address:

Street Address: Jacobson, Price, Holman & Stern, PLLC 400 Seventh Street, N.W.

City: Washington State: DC Zip: 20004

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h)) \$ 40.00

X Enclosed Authorized to be charged to deposit account

8. Deposit account number: 06-1358 (Atty.Dkt.No. 11349-P62196USO)

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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.

Yoon S. Ham (Limited Recognition) 10/29/98 Name of Person Signing Date

Handwritten signature: Yoon S. Ham, Reg # 2085

Total number of pages including cover sheet, attachments and document: 2

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments

PATENT

REEL: 9553 FRAME: 0482

UNITED STATES OF AMERICA—ASSIGNMENT

- (1-6) Insert Name(s) of Inventors (1) HOAI SIG KANG (2) (3) (4) (5) and (6)

In consideration of the sum of one dollar (\$1.00), and other good and valuable considerations paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned agree(s) to assign, transfer and set over to

- (7) Insert Name of assignee (7) HYUNDAI ELECTRONICS INDUSTRIES CO., LTD.

- (8) Insert Address of Assignee (8) of San 136-1, Ami-ri, Bubal-eub, Ichon-shi, Kyoungki-do, 467-860 Korea

- (9) Insert Legal Entity and State or Country (e.g., a corporation or citizen of Japan) (9) a Corporation of Republic of Korea (hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention known as

- (10) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number (10) BUS ARBITRATOR WITH A HIERARCHICAL CONTROL STRUCTURE for which the undersigned has (have) executed an application for patent in the United States of America

- (11) Insert Date of Signing of Application, or filing date and Serial No., if known (11) Said application having been ~~executed~~ filed on June 26, 1998 (and assigned Serial No. 09/104,543)

1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Union for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States resulting from this application or any continuing or divisional applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

6) The undersigned hereby grant(s) the law firm of Jacobson, Price, Holman & Stern, PLLC, 400 Seventh Street, N.W., Washington, D.C. 20004, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date June 15, 1998 Name of Inventor Hoai Sig Kang typed name signature (SEAL)

This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:

Additional inventor's names and signatures on a separate sheet. Witness Seung Hwan Choi

LAW OFFICES OF JACOBSON, PRICE, HOLMAN & STERN PROFESSIONAL LIMITED LIABILITY COMPANY THE JENIFER BUILDING 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004

PATENT REEL: 9553 FRAME: 0483