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12/27/01

Attorney Docket No. 111468

10/026880  
12/27/01

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

1. A. Name of conveying party:  
Ryuichi HATA  
  
B. Additional name(s) of conveying party(ies) attached?  
 Yes  No

2. A. Name and address of receiving party:  
KAWASAKI MICROELECTRONICS, INC.  
MAKUHARI TECHNO GARDEN B-5, 1-3,  
NAKASE MIHAMA-KU, CHIBA 261-8501,  
JAPAN

3. A. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
  
B. Execution Date: December 20, 2001

B. Additional name(s) & address(es) attached?  
 Yes  No

10/026880

4. A. If this document is being filed together with a new application, the execution date of the application is: December 20, 2001  
  
B. Patent Application No.(s) \_\_\_\_\_  
C. Patent No.(s) \_\_\_\_\_  
  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
  
Name: James A. Oliff  
  
Address: OLIFF & BERRIDGE, PLC  
P.O. Box 19928  
Alexandria, VA 22320

6. Total number of applications and patents involved: 1  
  
7. A. Total fee (37 CFR 3.41).....\$ 40.00  
B. Enclosed (Check No. 126378)  
  
8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

01/03/2002 TDIAZI 00000045 10026880  
01 FC:581 40.00 DP

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.*

James A. Oliff Registration No. 27,075  
Joel S. Armstrong Registration No. 36,430

Date: December 27, 2001

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

ASSIGNMENT

(1-8) Insert name(s) of Inventor(s) (1) Ryuichi HATA (5) (2) (6) (3) (7) (4) (8)

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

(9) Insert name of Assignee (9) KAWASAKI MICROELECTRONICS, INC.

(10) Insert Address of Assignee (10) Makuhari Techno Garden B-5, 1-3, Nakase Mihama-ku, Chiba 261-8501, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(11) Insert Identification of invention, such as Title, Case Number or (11) CONTENT ADDRESSABLE MEMORY HAVING DATA WIDTH EXTENSION CAPABILITY

(Attorney Docket No. 111468)

Foreign Application Number

for which the undersigned has (have) executed an application for patent in the United States of America

(12) Insert Date of Signing of Application (12) on December 20, 2001

(13) Alternative Identification for filed applications (13) U.S. application Serial Number December 27, 2001

- 1) The undersigned agree(s) to execute all papers necessary in connection with the 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 continuation or division 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 Convention 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 to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing 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 firm of OLIFF & BERRIDGE 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 December 20, 2001 Name of Inventor Ryuichi HATA (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)
Date Name of Inventor (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witness who also sign here:

Date December 20, 2001 Witness Yasuhide Shioyama
Date December 20, 2001 Witness Naoki Hanayama