

PATENT ASSIGNMENT

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Toshio KIMURA	09/04/2003
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Property Type	Number
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ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Yoshihisa DOTTA
Toshio KIMURA

(Assignee) SHARP KABUSHIKI KAISHA a corporation of Osaka, Japan
(Address) 22-22 Nagaike-cho Abeno-ku Osaka 545-8522 Japan

(Title) SEMICONDUCTOR DEVICE AND CHIP-STACK SEMICONDUCTOR DEVICE

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on September 4, 2003 and September 5, 2003 or has already filed U.S. application Serial No. _____, on

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared 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 and further to 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.

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.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent 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.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. 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 Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

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

Date 5/Sep/2003 Signature of inventor Yoshihisa Dotta
Date 4/Sep/2003 Signature of inventor Toshio Kimura
Date _____ Signature of inventor _____
Date _____ Signature of inventor _____
Date _____ Signature of inventor _____

Witnessed by: Akitem Rai Date 5/Sep/2003

Witnessed by: _____ Date _____