

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is acknowledged, the undersigned,

Chikao MAKITA and Kunihiko KARASAWA of

c/o Renesas Technology Corp.

4-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-6334 JAPAN

sells, assigns, and transfers to

Renesas Technology Corp.

of 4-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-6334 JAPAN

(the Assignee), its successors and assigns, the entire right, title, and interest in and to:

(i) the application for United States Letters Patent entitled:

SEMICONDUCTOR DEVICE

which was executed by the undersigned on May 12, 2003 or was filed on Mar. 4, 2003 and accorded Serial No. 10/378,085 (the Application);

- (ii) any and all inventions and improvements that are described in the Application;
- (iii) any and all United States Letters Patents that may be granted on the Application (the Patent);
- (iv) any and all divisions, continuations, reexaminations, reissues, or extensions of the Application or the Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

I authorize the Assignee and its agents to insert in this instrument the filing date and serial number of the Application.

I authorize and request the Commissioner of Patents to issue any and all Letters Patent, when granted, to the Assignee.

Further, it is agreed that, when requested, without charge to, but at the expense of, the Assignee, the undersigned will execute all divisional, continuing, or reissue patent applications; execute all additional assignments and other writings, including reissue and reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection for any invention described in the Application.

INVENTOR

Date

Chikao Makita

May 12, 2003

Chikao MAKITA

Kunihiko Karasawa

May 12, 2003

Kunihiko KARASAWA

