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05-19-2003

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| Name (line 2) | | | | | | | | Execution Date |
| Second Party Name (line 1) | Stacy Ho | | | | | | | Month Day Year |
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ASSIGNMENT

For valuable consideration, we, Thomas James Barber, Jr., residing at 26 Farm Road, Bolton, MA 01740, Stacy Ho, residing at 773 Louis Pasteur Drive #433, San Antonio, TX 78229 and Paul Ferguson, Jr., residing at 69 Heath Road, North Andover, MA 01845 (hereinafter "the Assignors"), hereby assign to Analog Devices, Inc., a Massachusetts corporation having its principal place of business at Three Technology Way, Norwood, MA 02062, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent filed on even date herewith entitled

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this assignment including said United States patent and any and all foreign patents granted for said inventions or improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, preliminary statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

| In Witness Whereof, we he | ereto set our han | ds and seals at Middle | <u> </u> |
|---|-------------------|---|---------------------|
| this 1th day of May | , 2003. | | |
| MM | | Sono | |
| Thomas James Barber, Jr. | | Stacy Ho | |
| May 7/2 | | | |
| 'Paul Férguson, Jr. | | | |
| State of Massachusetts County of Malese X | } | | |
| Before me this 7th day | of May | , 2003, personally app | peared Thomas James |
| Barber, Jr., Stacy Ho, and Paul Fe subscribed to the foregoing assign | rguson, Jr., knov | vn to me to be the person | s whose names are |
| free act and deed for the purposes | | - · · · · · · · · · · · · · · · · · · · | |
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