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

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Laurie E. Gathman, Reg.No. 37,520 Name of Person Signing

Washington, D.C. 20231

t Signature

PATENT REEL: 012828 FRAME: 0164

ASSIGNMENT

Docket No. PHN 16,651

U.S. Philips Corporation a Delaware Corporation having an office at 1251 Avenue of the Americas New York, NY 10020, in consideration of one dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, hereby sells, assigns, and transfers the entire right, title, and interest in the following patent application to Koninklijke Philips Electronics N.V., having a place of business at Groenewoudseweg 1, 5621 BA Eindhoven, NL, its successors, assigns, and legal representatives, including any nominees (collectively the "Assignee"):

Application No. 09/209,084 Filing Date December 10, 1998

including all divisions, continuations, reissues, and extensions, and all patents granted on these applications.

The Assignor will provide its cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request of and at the expense of the Assignee, Assignor agrees to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutional actions and infringement actions, and do all other such acts which may be necessary, desirable, or convenient for securing and maintaining patents on the foregoing invention or for perfecting title thereto in the Assignee. Assignor authorizes and requests that these patents be issued to the Assignee.

Assignor certifies that it has the full right to convey the above rights.

Dated: April 5, 2002

U.S. PHILIPS CORPORATION

Michael E. Marion Authorized Signatory

PATENT
RECORDED: 04/16/2002 REEL: 012828 FRAME: 0165