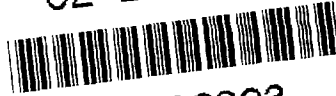


02-28-2002



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MONISHA GHOSH

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Yes  No

2. Name and address of receiving party(ies):

Name: Koninklijke Philips Electronics N.V.

Internal Address:

Street Address: Groenewoudseweg 1

City: Eindhoven Country: The Netherlands  
Zip: 5621 BA

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3. Nature of conveyance:

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A. Patent Application No. (s)

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5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Philips Electronics North America Corp.

Internal Address:

Street Address: 580 White Plains Road

City: Tarrytown State: NY Zip: 10591

6. Total number of applications and patents involved:

1

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PATENT  
REEL: 012608 FRAME: 0639

SOLE/JOINT ASSIGNMENT

For good and valuable consideration, we, as a below-named Assignor, hereby sell, assign, and transfer the entire right, title, and interest in the following to koninklijke Philips Electronics N.V., a corporation of the Netherlands having a place of business at 1Groenewoudseweg 1, Eindhoven, the Netherlands 5621 BA, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

- (1) Our invention relating to METHOD AND SYSTEM FOR JOINT DECISION FEEDBACK EQUALIZATION AND COMPLEMENTARY CODE KEY DECODING USING A TRELLIS

as described in the U.S. patent application

[X ] executed concurrently herewith,

[ ] executed on \_\_\_\_\_,

[ ] filed in the United States Patent and Trademark Office on \_\_\_\_\_ as Serial Number \_\_\_\_\_,

(2) the foregoing application and all other U.S. and foreign patent applications based thereon, including divisions, continuations, reissues, and extensions, and

- (3) all patents granted on these applications.

We will provide our cooperation to enable the Assignee to enjoy the foregoing right, title, and interest to the fullest extent. Upon request at the expense of the Assignee, we agree to execute all papers, take all rightful oaths, testify in all legal proceedings including patent prosecutorial 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. We authorize and request that these patents be issued to the Assignee.

We certify that we have the full right to convey the above rights.

01/18/2002  
Date

Monisha Ghosh  
MONISHA GHOSH

, Assignor