To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
   - Jürgen Kaaden
   - Dietmar Brauer
   - Gerhard Reiner

   Additional name(s) of conveying party(ies) attached: X No

2. Name and address of receiving party(ies):
   - Name: Deutsche Thomson-Brandt GmbH
   - Internal Address:

   Address:
   - Hermann-Schwer-Str. 3
   - D-78048 Villingen-Schwenningen
   - GERMANY

3. Nature of conveyance:
   - X Assignment
   - Security Agreement
   - Change of Name
   - Other

   Execution Date: 10 July 1996

   Additional name(s) & address(es) attached: X No

4. Application number(s) or patent number(s): 08/642,663
   A. Patent Application No.(s): 08/642,663

   Additional numbers attached: X No

5. Name and address of party to whom correspondence concerning document should be mailed:
   - Name: JOSEPH S. TRIPOLI
   - Internal Address: PATENT OPERATIONS
   - THOMSON MULTIMEDIA LICENSING INC.
   - Street Address: P. O. BOX 5312
   - City: PRINCETON
   - State: NEW JERSEY
   - Zip: 08543-5312

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): $40.00
   - Enclosed
   - X Authorized to be charged to deposit account

8. Deposit account number: 07-0832
   (Attach duplicate copy of this page if paying by deposit acct)

   To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

   Ronald H. Kurdyla
   Name of Person Signing
   Signature
   Reg.No. 26,932
   Date 1/26/99

   OMB No. 0651-0011 (exp. 4/94)

   Mail documents to be recorded with required cover sheet information to:
   - Commissioner of Patents and Trademarks
   - Box Assignments
   - Washington, D.C. 20231

   Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.
ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTER PATENT

WHEREAS, Jürgen Kaaden, Im Tannhörmle 10, 78052 Villingen-Schwenningen, Germany; Dietmar Bräuer, Am Sachsenwälde 32, 78050 Villingen-Schwenningen, Germany; Gerhard Reiner, Oderstr. 118, 78052 Villingen-Schwenningen, Germany; hereinafter (collectively) referred to as the assignor, has invented a certain improvement relating to

SIGNAL PROCESSING SYSTEM FOR DIGITAL SIGNALS

for which said assignor has caused an application for United States Letters Patent to be prepared,

( ) the inventor’s declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

(XX) said application having been filed in the United States Patent and Trademark Office on May 3, 1998 Serial Number 08/642,663;

AND WHEREAS

Deutsche Thomson-Brandt GmbH
Hermann-Schwer-Str. 3
D-78048 Villingen-Schwenningen
Germany

hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.
EXECUTED, this 10th day of July, 1996.

WITNESSES: Peter Mahr
Signature: [Signature]
Name: Peter Mahr
Address: Reutenbachstr. 13
78726 Weiler

ASSIGNOR: Jürgen Kaaden
Signature: [Signature]
Name: Jürgen Kaaden
Address: 78086 Brigachtal

EXECUTED, this 10th day of July, 1996.

WITNESSES: Peter Mahr
Signature: [Signature]
Name: Peter Mahr
Address: Reutenbachstr. 13
78726 Weiler

ASSIGNOR: Dietmar Bräuer
Signature: [Signature]
Name: Dietmar Bräuer
Address: 78086 Brigachtal

EXECUTED, this 10th day of July, 1996.

WITNESSES: Peter Mahr
Signature: [Signature]
Name: Peter Mahr
Address: Reutenbachstr. 13
78726 Weiler

ASSIGNOR: Gerhard Reiner
Signature: [Signature]
Name: Gerhard Reiner
Address: 78086 Brigachtal