Total number of pages including cover sheet, attachments, and document:

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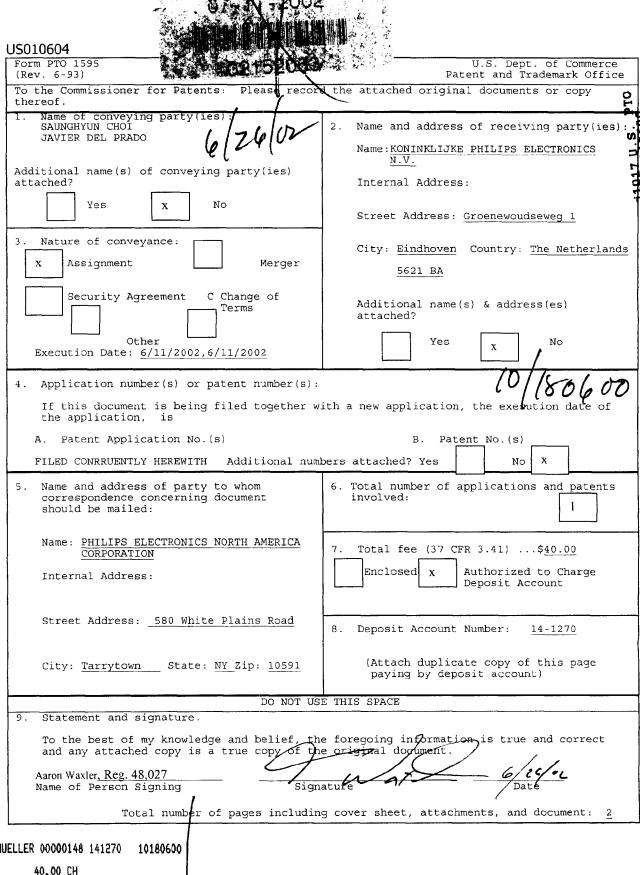
Commissioner of Patents and Trademarks

Box Assignments Washington, D.C. 20231

Signature

10/09/2002 TDIAZ1 00000183 141270 10180600 01 FC:581 40.00 CH

Aaron Waxler, Reg. 48,027 Name of Person Signing



07/10/2002 LMUELLER 00000148 141270 10180600 01 FC:581

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SOLE/JOINT ASSIGNMENT

Docket No. US 010604

For good and valuable consideration, I, 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 organized under the laws of the Netherlands, having a place of business at Groenewoudseweg 1, 5621 BA, Eindhoven NL, its successors, assigns, and legal representatives, including any nominees (collectively "the Assignee"):

- (1) my/our invention relating to "APPARATUS AND METHOD FOR PROVIDING IEEE 802.11e HYBRID COORDINATOR RECOVERY AND BACKOFF RULES" as described in the U.S. patent application

 - 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.

I will provide my 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, I agree 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. I authorize and request that these patents be issued to the Assignee.

I certify that I have the full right to convey the above rights.

(signature) Sunghyun Choi

O6/II/O2 (signature) full prado

RECORDED: 10/07/2002

PATENT REEL: 013359 FRAME: 0493