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Attorney Docket No. 09/889671/50179

U.S. DEPARTMENT OF COMMERCE
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<p>3. Nature of Conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other:</p> <p>Execution Date: August 9, 2001</p>	<p>Additional name(s) & address(es) attached?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

<p>A. Patent Application No.(s)</p> <p>09/889,671</p>	<p>B. Patent No(s).</p> <p><i>09/889671</i></p>
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>CROWELL & MORING, L.L.P. P.O. Box 14300 Washington, D.C. 20044-4300</p> <p>11/14/2001 SHAJARRO 00000035 09889671 01 FC:581 40.00 OP</p>	<p>6. Total number of applications and patents involved:</p> <p>7. Total Fee (37 CFR 3.41): \$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 05-1323</p> <p><input type="checkbox"/> Authorized to be charged to Deposit Account</p> <p>8. Deposit Account No.</p> <p>(Attach dupl. copy of this page if paying by Deposit Account)</p>
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9. Statement and Signature.

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.

Gary R. Edwards November 13, 2001

Gary R. Edwards Date
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ROKE MANOR RESEARCH LIMITED
Old Salisbury Lane
Romsey, Hampshire, SO51 0ZN, United Kingdom

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to:

IMPROVEMENTS IN OR RELATING TO DUPLEX FILTERS

as set forth in his United States Patent Application (check one):

executed concurrently herewith,
 was filed as PCT international application Number **PCT/GB99/04291** on **17 December 1999 (17.12.99)**
 Serial No. _____, filed _____,

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States, which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made.

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Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith.

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention.

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INVENTOR:	Christopher Nigel SMITH
Citizenship:	British
Residence/Post Office Address:	4 Bramble Drive Romsey, Hampshire SO51 7RJ, Great Britain

9TH AUG 2001
(date)

Christopher Nigel Smith
(signature of 1st inventor)

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.