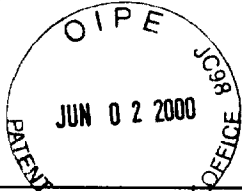


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Name (line 1) Nicholas Paul COWLEY

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Execution Date
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4/11/1990

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

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Name (line 1) Mitel Semiconductor Limited

Name (line 2)

Address (line 1) Cheney Manor

Address (line 2)

Address (line 3) Swindon,
city

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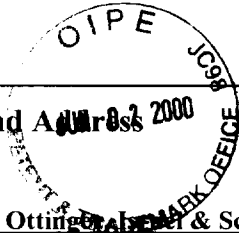
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Correspondent Name and Address 2000 Area Code and Telephone Number 212-697-3750

Name Alan Israel

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Address (line 3) New York, NY 10017-6105

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Patent Application Number(s)
09/454,642

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treat (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned. PCT PCT PCT PCT PCT PCT

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Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00
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Alan Israel
Name of Person Signing

[Signature]
Signature

May 31, 2000
Date

ASSIGNMENT OF PATENT APPLICATION

We, the undersigned have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto (Name of Company/Organization) Mitel Semiconductor Limited located at Cheney Manor, Swindon, Wiltshire SN2 2QN, United Kingdom a company/organization organized under the laws of The United Kingdom as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, in and to the United States Patent (Serial) No. 09/454,642 (filed) (issued) 12/6/99, for improvements invented (by me) in or relating to [Title] Improvements in or relating to demodulator alignment correction in tuners described in an application for Letters Patent of the United States, identified as Attorney Docket No. 50546 at Kirschstein, Ottinger, Israel & Schiffmiller, P.C., 489 Fifth Avenue, New York, NY 10017-6105, and filed on 12/6/99, as Application Serial No. 09/454,642, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.


We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We hereby authorize Alan Israel, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our name on the day and year set forth below.

Signature



 NICHOLAS PAUL COWLEY

Date

 April 11, 2000

Signature

Date
