PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Benoit Le Saux	09/17/2007
Maryline Helard	09/17/2007
Xenophon Doukopoulos	10/01/2007

RECEIVING PARTY DATA

Name:	France Telecom
Street Address:	6, place d'Alleray
City:	Paris
State/Country:	FRANCE
Postal Code:	75015

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11900389

CORRESPONDENCE DATA

Fax Number: (212)972-5487

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 212-687-2770

Email: Docket@cplplaw.com

Correspondent Name: Cohen Pontani Lieberman & Pavane LLP

Address Line 1: 551 Fifth Avenue

Address Line 4: New York, NEW YORK 10176

ATTORNEY DOCKET NUMBER:	5284-112
NAME OF SUBMITTER:	/Thomas Langer/

Total Attachments: 3

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PATENT REEL: 020034 FRAME: 0145

Attorney Docket Number: 5284-112

ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration,

the receipt of which is hereby acknowledged, We the undersigned, Benoit LE SAUX,

Maryline HELARD, Xenophon DOUKOPOULOS (hereinafter referred to as "ASSIGNOR"):

Hereby sell, assign and transfer to France Telecom (hereinafter referred to as

"ASSIGNEE"), a corporation of France having a place of business at 6, place d'Alleray, 75015

Paris, France, respectively, its successors, assigns and legal representatives, the entire right, title

and interest for the United States and all foreign countries, in and to the invention which is disclosed

in the application for United States Letters Patent, which has been executed by the undersigned

concurrently herewith, and which is entitled

A METHOD AND A MODULE FOR ESTIMATING TRANSMISSION CHANELS OF A

MULTI-ANTENNA MULTI-CARRIER SYSTEM

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all

other applications for Letters Patent which have been or shall be filed in the United States and all

foreign countries on said invention; and in and to all original, reissued and other patents and

certificates of invention which have been or shall be issued in the United States and all foreign

countries on said invention;

Agree that said Assignee may apply for and receive Letters Patent for said invention

in its own name, and that, when requested, without further consideration from or charge to, but at

the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good

faith the intent and purpose of this assignment, the undersigned will execute all divisional,

continuing, substitute, renewal, reissue, and all other patent applications on said invention; execute

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all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said invention and for vesting title to said invention and all applications

for patents and all patents on said invention, in said Assignee, its successors, assigns and legal

representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: <u>05/17/2007</u> month/day/year

Date: 03/17/2007
month/day/year

Benoît LE SAUX

J.B. Dri

Witness

Lament Bohn

Witness

Maryline HELARD

Laurent Carian

Witness

Witness

Date:	10/01/2007
	month/day/year

Xenophon DOUKOPOULOS

Hamalimy Aymane

Witness

Witness

Note: Signature of a witness is preferable, but not required.