

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3171682

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NAOFAL AL-DHAHIR	09/12/2001
CHRISTINE FRAGOULI	09/07/2001
WILLIAM TURIN	09/12/2001
RECEIVING PARTY DATA	
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State/Country:	NEW YORK
Postal Code:	10013
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14575859
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NAME OF SUBMITTER:	PEGGY S. PEPITONE
SIGNATURE:	/Peggy S. Pepitone/
DATE SIGNED:	01/06/2015
Total Attachments: 3	
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ASSIGNMENT AND AGREEMENT

For value received, we, Naofal Al-Dhahir of Chatham in the County of Morris and State of NJ, Christine Fragouli of Madison in the County of Morris and State of NJ, and William Turin of East Brunswick in the County of Middlesex and State of NJ, hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to Training-Based Channel Estimation for Multiple-Antennas described in an application for Letters Patent of the United States, executed by us of even date herewith, and also previously filed in the United States as a Provisional Application No 60/282,647, filed April 9, 2001, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize AT&T Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to AT&T Corp. in the United States and in all countries foreign to the United States, or to such nominees as AT&T Corp. may designate.

We agree that, when requested, we shall, without charge to AT&T Corp. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

N. m. w. Al-Dhahir
Naofal Al-Dhahir

Date 9/12/01

United States of America)
State of NJ) ss.: 605-28-7198
County of Morris)

On this 12th day of September, 2001, before me personally came Naofal Al-Dhahir, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Maureen Kane-Sara
Notary Public

MAUREEN KANE-SARA
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 2004

Christine Fragouli
Christine Fragouli

Date 9/7/01

United States of America)
State of New Jersey) ss.:
County of Morris)

On this 7th day of September, 2001, before me personally came Christine Fragouli, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Maureen Kane-Sara
Notary Public

MAUREEN KANE-SARA
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 2004

William Turin

William Turin

Date 09/12/2001

United States of America)
State of *New Jersey*)ss.:
County of *Morris*)

On this 12th day of September, 2001,
before me personally came William Turin, to me known to be the individual described in
and who executed the foregoing instrument, and acknowledged execution of the same.

Maureen Kane-Sara

Notary Public

MAUREEN KANE-SARA
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 2004