503412921 07/29/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3459555

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| XIAOJING HUANG | 05/03/2015 |
| JIAN ZHANG | 05/03/2015 |

RECEIVING PARTY DATA

| Name: | COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION |
|-----------------|--|
| Street Address: | LIMESTONE AVENUE |
| City: | CAMPBELL, ACT |
| State/Country: | AUSTRALIA |
| Postal Code: | 2612 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14437022 |

CORRESPONDENCE DATA

Fax Number: (513)241-6234

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 5132412324

Email: ctarvin@whe-law.com

Correspondent Name: WOOD, HERRON, & EVANS, LLP

Address Line 1: 441 VINE STREET
Address Line 2: 2700 CAREW TOWER
Address Line 4: CINCINNATI, OHIO 45202

| ATTORNEY DOCKET NUMBER: | M&CA-01 | |
|-------------------------|----------------------|--|
| NAME OF SUBMITTER: | MATTHEW D. DELANEY | |
| SIGNATURE: | /Matthew D. Delaney/ | |
| DATE SIGNED: | 07/29/2015 | |

Total Attachments: 2

source=M_CA_01_Assignment#page1.tif source=M_CA_01_Assignment#page2.tif

PATENT 503412921 REEL: 036201 FRAME: 0893

CONFIRMATORY INVENTOR ASSIGNMENT TO CSIRO

INVENTION

OFDM COMMUNICATIONS

Title of the Invention

We, the undersigned inventors, are inventors for the above identified Invention, and were at all material times employees of the Commonwealth Scientific and Industrial Research Organisation, a body corporate constituted by the Science and Industry Research Act 1949 of the Commonwealth of Australia, with its Head Office at Limestone Avenue, Campbell, Australian Capital Territory, 2612, Australia (CSIRO).

We confirm that as a result of at least the provisions of our contracts of employment and the Australian Commonwealth Science and Industry Research Act 1949 that CSIRO is the owner of all our right, title and interest in and to the Invention and all patent applications filed in relation to the Invention.

To the extent that the above confirmed assignment may be ineffective for any reason, and in consideration of the payment to us of the sum of one dollar (\$1.00) (receipt of which is hereby acknowledged) and for other good and valuable consideration, we hereby:

(1) Assign to **CSIRO**:

- (i) all our rights, title and interest in and to the Invention, International Patent
 Application No. PCT/AU2012/001270, the 'Application' and any Letters Patent
 granted in respect of the Application, and
- (ii) the right to file and prosecute in any country in the world any applications for registration of intellectual property right claiming priority from the Application, including applications for patents, divisionals, continuations, continuations-inpart, petty patents, utility models and inventors' certificates.

(2) Agree that we will:

- (i) communicate to CSIRO, its successors and assigns, any facts known to me/us respecting the Invention, and
- (ii) execute all documents, and generally do everything CSIRO, its successors and assigns may reasonably require to obtain and enforce registration of intellectual property rights or any other form of legal protection for the Invention in any country of the world.
- (3) Authorise and request the Commissioner or Comptroller of Patents and such other persons as are duly appointed to administer patent and like laws in any country to issue any and all such Letters Patent and other registrable rights to CSIRO, its successors or assigns.

PATENT REEL: 036201 FRAME: 0894

EXECUTED AS A DEED

| INVENTORS AND WITNESSES | | | | |
|--|---|--|--|--|
| (1) Inventor's Full Name Xiaojing HUANG Home Address: 24 Cave Avenue North Ryae NSW 2113 | Nationality: Australian Signature | Witness Full Name Zhu, Chaw Witness Signature | | |
| (2) Inventor's Full Name Jian ZHANG Home Address: 25 HOLLIS Ave. Denistone East, NSW 2112 | Dated 5/03/2015 Nationality: Australian Signature Dated 05/03/2015 | Witness Full Name Zhu CMGN Witness Signature Ch 2 | | |
| (3) Inventor's Full Name Home Address: | Nationality: Signature | Witness Full Name Witness Signature | | |
| | Dated | | | |
| (4) Inventor's Full Name | Nationality: | Witness Full Name | | |
| Home Address: | Signature | Witness Signature | | |
| | Dated | (CSIRO Ref: TW8686WO) | | |

PATENT REEL: 036201 FRAME: 0895

RECORDED: 07/29/2015