

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
COLIN FRANK	08/11/2016
TYLER BROWN	08/11/2016
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17518584
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NAME OF SUBMITTER:	MATTHEW C. LOPPNOW
SIGNATURE:	/Matthew C. Loppnow/
DATE SIGNED:	11/03/2021
Total Attachments: 2	
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**ASSIGNMENT AND DECLARATION
FOR
UTILITY PATENT APPLICATION**

Title of Invention: **METHOD AND APPARATUS FOR EQUAL ENERGY CODEBOOKS
FOR COUPLED ANTENNAS WITH TRANSMISSION LINES**

Whereas, I have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the above-indicated Motorola Mobility Docket Number,

I hereby declare as follows:

- This declaration under 37 C.F.R. § 1.63 is directed to the attached application, or (if checked) to ☐ United States or PCT international patent application serial number _____ filed on _____.
- I believe myself to be the original inventor or an original joint inventor of a claimed invention in the application.
- The above-identified application was made or authorized to be made by me.
- I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

Whereas, Motorola Mobility LLC (as the "ASSIGNEE"), a limited liability company of the State of Delaware, having a place of business at 222 West Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, USA, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto,

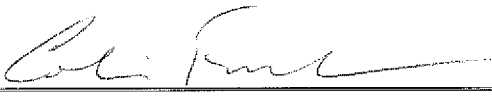
I hereby (as "ASSIGNOR"), for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all

lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment.

I hereby acknowledge that any willful false statement made herein is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: **COLIN FRANK**

Signature:  Date: August 11, 2016

(2) Legal Name of Inventor: **TYLER BROWN**

Signature:  Date: Aug 11, 2016