

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JAMES MICHAEL SHIMA	08/20/2018
<b>RECEIVING PARTY DATA</b>		
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<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15973003	
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<b>NAME OF SUBMITTER:</b>	BRADLEY M. KNEPPER	
<b>SIGNATURE:</b>	/Bradley M. Knepper/	
<b>DATE SIGNED:</b>	08/21/2018	
<b>Total Attachments: 2</b>		
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### ASSIGNMENT

WHEREAS, I, James Michael Shima, of 435 S. Snowmass Circle, Superior, CO 80027, have invented a certain new and useful invention entitled **"SPECTRAL SENSING AND ALLOCATION USING DEEP MACHINE LEARNING"**, for which an application for Letters Patent of the United States has been prepared and filed on May 7, 2018, receiving Serial No. 15/973,003;

NOW THEREFORE, be it known that I, the said inventor, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign, and transfer unto said assignee, Ball Aerospace & Technologies Corp., a Delaware Corporation having a place of business at 1600 Commerce Street, Boulder, Colorado 80301, its successors, legal representatives, and assigns, the aforesaid patent application, the invention(s) described therein and any modification and/or improvement(s) to the invention(s) thereof, and all regular, continuation, divisional, continuation-in-part, and reissue applications associated therewith; all corresponding patent applications in foreign countries; all applications pursuant to the Patent Cooperation Treaty; all applications for extension filed or to be filed for the invention(s), improvements and/or modifications; and all Letters Patent, Invention Registrations, Utility Models, Extensions, Reissues, and other patent rights obtained for the invention(s), improvements and/or modifications in the United States or any other country;

I also assign any right, title, and interest in and to the invention(s), improvements and/or modifications, which has not already been transferred to the assignee;

I warrant that I have made no assignment of the invention(s), application(s), and/or patent therefor to a party other than Ball Aerospace & Technologies Corp., and I am under no obligation to make any assignment of the invention(s), including improvements and/or modifications to the invention(s), application(s), or patent(s) therefor to any other party; and

I further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention(s), but at the expense of said assignee.

I have reviewed and understand the contents of the application(s), including the claims thereof, which may have been amended by a preliminary amendment filed with the application(s) or which are contemplated. I affirm that the above-identified inventions and applications were made or authorized to be made by me. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby acknowledge that any willful false statement regarding inventorship of these applications is

punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

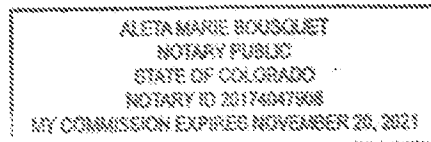
The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent(s) solely in accordance with the terms of this Assignment, to Ball Aerospace & Technologies Corp., its successors, legal representatives, and assigns, as the assignee of the entire right, title, and interest therein.

IN WITNESS WHEREOF, the party hereto has executed this Assignment as of the date indicated hereunder.

Date: 8/20/18

By: [Signature]  
James Michael Shima

STATE OF Colorado )  
COUNTY OF Jefferson ) ss.



Before me, a Notary Public in and for said County and State, personally appeared James Michael Shima, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20 day of August, 2018.

My commission expires: 11.20.2021 Aleta Marie Bousquet  
Notary Public