

## 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>
RAMANATHAN MUTHIAH	11/16/2017
BALAJI THRAKSHA VENKATARAMANAN	11/16/2017
RAMKUMAR RAMAMURTHY	11/16/2017
RAVI GAJA	11/16/2017
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15829870
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<b>ATTORNEY DOCKET NUMBER:</b>	WDA-3324-US
<b>NAME OF SUBMITTER:</b>	SCOTT C. HILTON
<b>SIGNATURE:</b>	/Scott C. Hilton/
<b>DATE SIGNED:</b>	04/14/2018
<b>Total Attachments: 2</b>	
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source=WDA-3324-US_Dec-Assign#page2.tif	

**DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN  
APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT**

Title of Invention: **STREAMED PROGRAM COMMANDS WITH  
PERIODIC GARBAGE COLLECTION**

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

☒ United States application or PCT international application number 15/829,870 filed  
on 12/01/17.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the  
application.

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 CFR Section 1.56.

Whereas, the undersigned inventors 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 Docket Number provided above in the header of this document;

Whereas, WESTERN DIGITAL TECHNOLOGIES, INC., a corporation of Texas, having a place of  
business at 5601 Great Oaks Parkway, San Jose, CA 95119, (herein referred to as Western Digital),  
desires to acquire, and each undersigned Inventor desires to grant to Western Digital, the entire  
worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and  
patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby  
acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers  
to Western Digital (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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 therefore in the United States and in all foreign countries and jurisdictions, including all  
divisions, divisionals, continuations, continuations-in-part, conversions in the case where the above-  
identified United States patent application is a provisional patent application, 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, each undersigned Inventor  
hereby authorizes and requests the Director of the United States Patent and Trademark Office ("USPTO")  
to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the  
Invention, to Western Digital, its successors, legal representatives, and assigns, the entire worldwide  
right, title, and interest in and to the same to be held and enjoyed by Western Digital, 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 the undersigned had this Assignment not  
been made; and each undersigned Inventor agrees 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 Western Digital, its successors, legal representatives, and assigns, whenever requested by Western Digital, its successors, legal representatives, or assigns. Each undersigned Inventor further agrees to sign all documents and do such additional acts, without additional compensation, as Assignee deems necessary to: prepare and prosecute patent applications directed to the Invention; and conduct proceedings related to the Invention and all related patents and applications, including litigation or post-grant proceeding before the USPTO.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to Western Digital and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants Western Digital, 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. This Assignment is governed by the substantive laws of the State of California, and any disputes will be resolved in a California state court or federal court sited in California.

I hereby acknowledge that any willful false statement made in this declaration 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: **RAMANATHAN MUTHIAH**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(2) Legal Name of Inventor: **BALAJI THIRAKSHA VENKATARAMANAN**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(3) Legal Name of Inventor: **RAMKUMAR RAMAMURTHY**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(4) Legal Name of Inventor: **RAVI GAJA**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_