

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7742436

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MUHAMMAD BASHIR MANSOR	06/01/2020
CHONG UN TAN	05/27/2020
SHIVARAM SAHADEVAN	06/01/2020
MICKALDASS SANTANASAMY	06/01/2020
MUHAMMAD FAIZUL MOHD YUNUS	06/01/2020
CHIN KOON TANG	06/01/2020
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17539062
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NAME OF SUBMITTER:	ROBERT R. GEMPELER
SIGNATURE:	/Robert R. Gempeler/
DATE SIGNED:	01/13/2023

Total Attachments: 3

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**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: **BALL GRID ARRAY SUBSTRATE**

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 _____ filed
on _____.

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: **MUHAMMAD BASHIR MANSOR**

Signature:  Date: 1-June-2020

(2) Legal Name of Inventor: **CHONG UN TAN**

Signature:  Date: 27 May 2020

(3) Legal Name of Inventor: **SHIVARAM SAHADEVAN**

Signature:  Date: 1 June 2020

(4) Legal Name of Inventor: **MICKALDASS SANTANASAMY**

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(5) Legal Name of Inventor: **MUHAMMAD FAIZUL MOHD YUNUS**

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(6) Legal Name of Inventor: **CHIN KOON TANG**

Signature:  Date: 1st June 2020