

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5611546

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HUA LIU	06/10/2019
MARK ROBERT WATTS	06/10/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CAMPBELL SOUP COMPANY
<b>Street Address:</b>	1 CAMPBELL PLACE
<b>City:</b>	CAMDEN
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	08103
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16414159
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(612)746-4781
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<b>Phone:</b>	612-746-4780
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<b>Correspondent Name:</b>	PAULY, DEVRIES SMITH & DEFFNER, LLC
<b>Address Line 1:</b>	121 SOUTH 8TH STREET
<b>Address Line 2:</b>	SUITE 900
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402
<b>ATTORNEY DOCKET NUMBER:</b>	311.0115USU1
<b>NAME OF SUBMITTER:</b>	KATHERINE S. BOYLE
<b>SIGNATURE:</b>	/Katherine S. Boyle/
<b>DATE SIGNED:</b>	07/10/2019
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

WHEREAS, We, Hua Liu, residing at 150 Bridgeboro Road, Moorestown, NJ 08057 US, and Mark Robert Watts, residing at 7 Columbia Drive, Marlton, NJ 08053 US, made certain new and useful inventions and improvements for which We filed an application for Letters Patent of the United States on May 16, 2019, which application was assigned U.S. patent application serial number 16/414,159, is entitled DETECTION OF MULTI-DIMENSIONAL HEATING PATTERNS IN THERMAL FOOD PROCESSES USING THERMOCHROMIC INKS, and has attorney docket no. 311.0115USU1;

AND WHEREAS, Campbell Soup Company, having an office and place of business at 1 Campbell Place, Camden, NJ 08103 US (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, We have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and We do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, We do hereby agree that We and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, We covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 10<sup>th</sup> day of June, 2019.



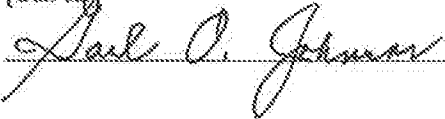
Hua Liu

STATE OF New Jersey

COUNTY OF Camden

On this 10<sup>th</sup> day of June, 2019 before me personally appeared Hua Liu to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

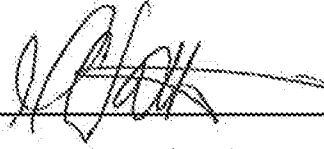


Notary Public

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**GAIL O. JOHNSON**  
NOTARY PUBLIC OF NEW JERSEY  
MY COMMISSION EXPIRES MAY 8, 2023

IN TESTIMONY WHEREOF, I have hereunto set my hand this 10<sup>th</sup> day of June, 2019.



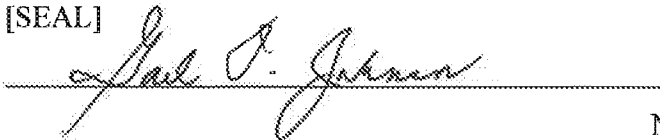
Mark Robert Watts

STATE OF New Jersey

COUNTY OF Camden

On this 10<sup>th</sup> day of June, 2019 before me personally appeared Mark Robert Watts to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

**GAIL O. JOHNSON**  
NOTARY PUBLIC OF NEW JERSEY  
MY COMMISSION EXPIRES MAY 8, 2023