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International application number: PCT/US2008/059501

International filing date: 04 April 2008 (04.04.2008)

Document type: Certified copy of priority document

Document details: Country/Office: US
Number: 60/910,357
Filing date: 05 April 2007 (05.04.2007)

Date of receipt at the International Bureau: 19 April 2008 (19.04.2008)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



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Organisation Mondiale de la Propriété Intellectuelle (OMPI) - Genève, Suisse

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APPLICATION NUMBER: *60/910,357*

FILING DATE: *April 05, 2007*

RELATED PCT APPLICATION NUMBER: *PCT/US08/59501*

THE COUNTRY CODE AND NUMBER OF YOUR PRIORITY APPLICATION, TO BE USED FOR FILING ABROAD UNDER THE PARIS CONVENTION, IS *US60/910,357*



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Mail Stop Provisional Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

April 5, 2007

Sir,

Transmitted herewith for filing is a Provisional Patent Application in re:

Inventor(s): Kelly Cox
Title: BUTTER RELATED FOOD PRODUCT AND METHOD
Ref. No.: P116251PV

1. Enclosed are:

- a) Provisional Application Cover Sheet signed by Attorney of Record;;
- b) 6-page Provisional Patent Application, no drawings associated with patent application.

2. The Commissioner is hereby authorized to charge payment of any additional filing fees under 35 CFR 1.16 for the presentation of extra claims or any patent application processing fees under 37 CFR 1.17 associated with this communication to Account No. 08-3260 and to credit any overpayment to that account.

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I hereby certify that this document (along with any document referred to as being attached or enclosed) was transmitted to the U.S. Patent and Trademark Office using the Patent Electronic Filing System (PAIR), on date shown below.

Date: April 05, 2007

/ Barbara Galloway /
Barbara Galloway

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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No.

INVENTOR(S)					
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)			
Kelly	Cox	Stanwood WA			
Additional inventors are being named on the <u>separately numbered sheets attached hereto</u>					
TITLE OF THE INVENTION (500 characters max)					
BUTTER RELATED FOOD PRODUCT AND METHOD					
Direct all correspondence to: CORRESPONDENCE ADDRESS					
<input checked="" type="checkbox"/> Customer Number:	<input type="text" value="22931"/>				
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ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification Number of Pages <u>6</u>	<input type="checkbox"/> CD(s), Number _____				
<input type="checkbox"/> Drawing(s) Number of Sheets <u>0</u>	<input type="checkbox"/> Other (specify) <u>Transmittal, Certificate of Mailing, Check, Postcard</u>				
<input type="checkbox"/> Application Date Sheet. See 37 CFR 1.76					
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT					
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.					FILING FEE Amount (\$)
<input type="checkbox"/> A check or money order is enclosed to cover the filing fees.					<input type="text" value="\$100.00"/>
<input checked="" type="checkbox"/> The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: <u>08-3260</u>					
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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No.					
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____					

[Page 1 of 2]

Respectfully submitted,

SIGNATURE Robert HughesTYPED or PRINTED NAME Robert HughesTELEPHONE 360-647-1296Date April 05, 2007REGISTRATION NO. 19,304DOCKET NUMBER: P116251PV**USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**

This collection of information is required by 37 CFR 1.51. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1-50~ DO NOT SEND FEES OR COMPLETED -OR/M'S TO THIS ADDRESS. SEND TO: Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450,

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BUTTER RELATED FOOD PRODUCT AND METHOD

BACKGROUND OF THE INVENTION

5 a) Field of the Invention

The present invention relates to a food product that incorporates inulin and water into butter to provide a relatively nutritious and tasty food product, and also to a method for the same.

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b) Background Art

Inulin was isolated about ten years ago and put into production. Since then it has been used in various ways. For example, yogurt companies have incorporated inulin into their yogurt to increase fiber content. Proctor & Gamble has more recently introduced a product referred to as FIBER SURE. A teaspoon of this pure inulin known as FIBER SURE can be added to a glass of water, orange juice, spaghetti, or salad, presumably to help increase dietary intake of fiber. Also, inulin is finding its way into health drinks and in confectionary and in chocolate bars.

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Inulin is a soluble dietary fiber derived from possibly as many as about 30,000 different vegetation plants from around the world. The primary source which is used commercially is derived from chicory root or Jerusalem Artichokes. Inulin is a generic term, and
5 it is a hydrocolloid that is refined with a hot water process. Inulin is a white powder that has a slightly sweet flavor because it has a molecule of fructose latched onto the main molecule. However, it is not considered a sugar, and it is diabetic friendly; it doesn't affect glycemic levels or cause damage to the pancreas.

EMBODIMENTS OF THE PRESENT INVENTION

The basic formulation for this food product combines butter, inulin and water which are mixed together to form the food product.

5 In an earlier embodiment of the product, the relative quantities of the three ingredients are as follows:

169.50 Grams Butter (66.21%)

56.50 grams Inulin (22.00%)

30.00 grams Water (11.71%)

10 256.00 grams total product weight

However, more recent formulations have different ratios, and some have substantially decreased the total percentage of butter, and the inulin and the water were increased in general at the same relative quantities as indicated above.

15 With regard to the process of making this fiber butter, we have to recognize that inulin, when mixed with water, will harden up rather quickly (e.g., in about 30 seconds). So the product has to be made fast.

As an example, let us start the process of making the Fiber
20 Butter product by using conventional butter that is bought in a grocery store and which has generally about 2% salt. (However, it could also be used in unsalted butter.)

The inulin is rather similar to fat in a chemical sense, and when it's mixed in with other fat it works as something in the order of an emulsifier. In addition, the inulin mixes well with the water.

When the originator made his initial batches, he mixed the ingredients by hand. He would do this by first pouring the inulin
5 into a small amount of water and mix it up very quickly for maybe 20 seconds or so. Then he would immediately dump this into a container that held the butter and stir very vigorously and quickly so that the mixture of the inulin and water would be distributed
10 throughout the butter. Also the mixing would be done without incorporating air as much as possible.

It is envisioned that in a commercial operation, for example, the ingredients would be fed into a screw conveyor which both conveys and mixes. Then these would be directed into a container
15 and then there would be a churning type mixing device in the container which would mix these together to make the end product.

Present analysis and experimentation indicates that this food product has various advantages. The following are given by way of
20 example.

- i. This food product is relatively lower in cholesterol due to the displacement of the quantity of the butter by the fiber and water, and also for this reason lower in fat content.
- 5 ii. This food product can also lower the amount of salt in the food product as compared to conventional butter.
- iii. The inulin content helps absorption of calcium in humans.
- iv. It is also surmised that the soluble dietary fiber content
10 provided by the inulin would be found to aid in binding some of the ingested cholesterol so that it may be ingested in the digestive system and not enter the blood stream.
- v. The food product has enhanced sweetness due to the
15 inulin and with its being diabetic friendly with the glycemic index so as to have a minimized influence on blood glucose and no stimulation of insulin excretion.
- vi. It can have advantages in the cooking operation by
20 providing a non-stick function in frying and baking, and when used, for example, to fry eggs, it is seen to retard

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the spread of egg whites so as to hold them more closely around the yolk.

It is obvious that various modifications could be made, without departing from the basic teachings of the present

5 invention.

Electronic Acknowledgement Receipt

EFS ID:	1658559
Application Number:	60910357
International Application Number:	
Confirmation Number:	5705
Title of Invention:	BUTTER RELATED FOOD PRODUCT AND METHOD
First Named Inventor/Applicant Name:	Kelly Cox
Customer Number:	22931
Filer:	Michael F. Hughes/Barbara Galloway
Filer Authorized By:	Michael F. Hughes
Attorney Docket Number:	P116251PV
Receipt Date:	05-APR-2007
Filing Date:	
Time Stamp:	16:49:44
Application Type:	Provisional

Payment information:

Submitted with Payment	yes
Payment was successfully received in RAM	\$ 100
RAM confirmation Number	665
Deposit Account	083260

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
Charge any Additional Fees required under 37 C.F.R. Section 1.16 and 1.17

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
1		ProvPatApp.PDF	774466	yes	8
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal of New Application		1	2	
	Specification		3	8	
Warnings:					
Information:					
2	Fee Worksheet (PTO-06)	fee-info.pdf	8117	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			782583		
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