



US009510708B2

(12) **United States Patent**
Behle et al.

(10) **Patent No.:** **US 9,510,708 B2**
(45) **Date of Patent:** ***Dec. 6, 2016**

(54) **OIL QUALITY SENSOR AND ADAPTER FOR DEEP FRYERS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/923,418**

(22) Filed: **Jun. 21, 2013**

(65) **Prior Publication Data**

US 2013/0278276 A1 Oct. 24, 2013

Related U.S. Application Data

(63) Continuation of application No. 12/456,389, filed on Jun. 16, 2009, now Pat. No. 8,497,691, which is a continuation of application No. 12/215,307, filed on Jun. 26, 2008, now abandoned.

(60) Provisional application No. 60/937,513, filed on Jun. 28, 2007, provisional application No. 60/995,527, filed on Sep. 27, 2007.

(51) **Int. Cl.**

G01R 27/26 (2006.01)

G01R 27/08 (2006.01)

(Continued)

(52) **U.S. Cl.**

CPC **A47J 37/1271** (2013.01); **A47J 37/1223** (2013.01); **A47J 37/1266** (2013.01);

(Continued)

(58) **Field of Classification Search**

CPC .. G01N 33/2888; G01N 27/02; G01N 27/06; G01N 27/22; G01N 27/221; G01N 27/26; G01R 27/02; G01R 27/22; G01R 27/26; G01R 27/2605; G01D 5/24; G01D 5/241; G01D 5/2412; G01D 5/2417; A61B 5/0537
USPC 324/698, 691, 649, 600, 692, 663, 71.1, 324/444, 693
See application file for complete search history.

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(57) **ABSTRACT**

A system for measuring the state of degradation of cooking oil or fat includes at least one fryer pot; a conduit fluidly connected to the fryer pot for transporting cooking oil from the fryer pot and returning the cooking oil back to the fryer pot. A pump for re-circulating cooking oil to and from the fryer pot; and a sensor disposed in fluid communication with the conduit that measures an electrical property of the cooking oil as the cooking oil flows past the sensor and is returned to the at least one fryer pot is provided.

21 Claims, 7 Drawing Sheets

