

The  
United  
States  
of  
America



The Director of the United States  
Patent and Trademark Office

*Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this*

**United States Patent**

*Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.*

*Alexander I. Lerner*

*Director of the United States Patent and Trademark Office*



US009994438B2

(12) **United States Patent**  
**Sahiner**

(10) **Patent No.:** **US 9,994,438 B2**  
(45) **Date of Patent:** **Jun. 12, 2018**

(54) **FILLING AUTOMATION SYSTEM**  
(71) Applicant: **MEGA ENDÜSTRI KONTROL**  
**SISTEMLERI TICARET LIMITED**  
**SIRKETI, Ankara (TR)**  
(72) Inventor: **Bülent Sahiner, Ankara (TR)**  
(73) Assignee: **MEDA ENDUSTRI KONTROL**  
**SISTEMLERI TICARET LIMITED**  
**SIRKETI, Ankara (TR)**

(52) **U.S. Cl.**  
CPC ..... **B67D 7/08** (2013.01); **B60P 3/228**  
(2013.01); **B67D 7/04** (2013.01); **G05B 15/02**  
(2013.01); **G06Q 10/0838** (2013.01); **B67D**  
**7/14** (2013.01)  
(58) **Field of Classification Search**  
CPC ..... **B67D 7/08**; **B67D 7/36**; **G06Q 10/08**  
USPC ..... **141/2, 4, 231**  
See application file for complete search history.

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 512 days.

(56) **References Cited**  
**U.S. PATENT DOCUMENTS**  
4,266,580 A 5/1981 Dixon  
4,805,672 A 2/1989 Berrettini et al.  
6,681,815 B1 1/2004 Westrich et al.  
2004/0085200 A1 5/2004 McConnel et al.  
2006/0161374 A1\* 7/2006 Hillam ..... **B67D 7/3209**  
**702/130**  
2008/0223874 A1 9/2008 Carlins et al.  
2011/0120589 A1 5/2011 Evans

(21) Appl. No.: **14/379,995**

(22) PCT Filed: **Feb. 21, 2013**

(86) PCT No.: **PCT/TR2013/000091**

§ 371 (c)(1),  
(2) Date: **Aug. 20, 2014**

(87) PCT Pub. No.: **WO2013/126028**

PCT Pub. Date: **Aug. 29, 2013**

(65) **Prior Publication Data**  
US 2016/0016782 A1 Jan. 21, 2016

(30) **Foreign Application Priority Data**  
Feb. 22, 2012 (TR) ..... 2012/01983

(51) **Int. Cl.**  
**B67D 7/08** (2010.01)  
**B60P 3/22** (2006.01)  
**B67D 7/04** (2010.01)  
**G05B 15/02** (2006.01)  
**G06Q 10/08** (2012.01)  
**B67D 7/14** (2010.01)

**FOREIGN PATENT DOCUMENTS**  
DE 20 2009 003417 7/2010  
EP 0 476 858 A1 3/1992  
EP 0 697 370 A1 2/1996  
EP 1 998 100 A 12/2008  
GB 2 416 756 A 2/2006  
TR 2010 00953 8/2011  
WO WO 2010/102769 A1 9/2010

\* cited by examiner  
*Primary Examiner* — Timothy L Maust  
*Assistant Examiner* — Timothy P Kelly  
(74) *Attorney, Agent, or Firm* — Defillo & Associates, Inc; Evelyn Defillo

(57) **ABSTRACT**  
An automated system for filling oil tankers and other equipment with different materials. The system comprises product/additive pumps, a section for delivering product/additive, and optionally an emergency control.

**8 Claims, No Drawings**