

Title (en)

PIG AND METHOD FOR APPLYING PROPHYLACTIC SURFACE TREATMENTS

Title (de)

MOLCH UND VERFAHREN ZUR ANWENDUNG PROPHYLAKTISCHER OBERFLÄCHENBEHANDLUNGEN

Title (fr)

RACLEUR ET PROCÉDÉ POUR APPLIQUER DES TRAITEMENTS DE SURFACE PROPHYLACTIQUES

Publication

EP 2285502 A4 20120516 (EN)

Application

EP 09729754 A 20090410

Priority

- US 2009040188 W 20090410
- US 10091008 A 20080410
- US 16163509 P 20090319

Abstract (en)

[origin: WO2009126875A2] The invention relates to methods for forming at least one metal oxide on one or more interior surfaces of closed or partially closed fluid transport or processing systems. The method involves applying at least one metal compound to the interior surfaces to be treated using, for example, one or more traveling applicators, commonly known as "pigs." Then, the at least one metal compound is converted to at least one metal oxide, such as by heating the surfaces. In some embodiments, the at least one metal oxide provides a protective metal oxide coating adhered to those surfaces. Embodiments of the present invention can be performed in situ on existing fluid processing or transport systems.

IPC 8 full level

B05C 7/08 (2006.01); **B05D 7/22** (2006.01); **B08B 9/04** (2006.01); **B08B 9/055** (2006.01); **C23C 18/04** (2006.01); **C23C 18/12** (2006.01); **F16L 55/26** (2006.01)

CPC (source: EP US)

B05C 7/08 (2013.01 - EP); **B08B 9/055** (2013.01 - EP); **B08B 9/0553** (2013.01 - EP US); **C23C 18/04** (2013.01 - EP); **C23C 18/1216** (2013.01 - EP); **B05B 12/1481** (2013.01 - EP); **B05D 3/10** (2013.01 - EP); **B05D 7/222** (2013.01 - EP); **F16L 2101/12** (2013.01 - EP); **Y02T 50/60** (2013.01 - US)

Citation (search report)

- [A] EP 0220347 B1 19911227
- [A] US 3108012 A 19631022 - CURTIS ARVEL C
- [A] US 6135129 A 20001024 - AKAZAWA YASUMASA [JP]
- See references of WO 2009126875A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2009126875 A2 20091015; **WO 2009126875 A3 20091217**; BR PI0911680 A2 20190507; CA 2721167 A1 20091015; EP 2285502 A2 20110223; EP 2285502 A4 20120516

DOCDB simple family (application)

US 2009040188 W 20090410; BR PI0911680 A 20090410; CA 2721167 A 20090410; EP 09729754 A 20090410