

Title (en)

Process for increasing the oxidative stability of biodiesel.

Title (de)

Verfahren zur Erhöhung der Oxidationsstabilität von Biodiesel

Title (fr)

Procédé d'augmentation de la stabilité à l'oxydation d'un biodiesel.

Publication

EP 1736528 A2 20061227 (DE)

Application

EP 06101504 A 20060210

Priority

DE 102005015474 A 20050404

Abstract (en)

Method for increasing oxidation stability of biodiesel, comprises adding a phenyl compound (I), as primary antioxidant, with a melting point of smaller than 40[deg]C to a biodiesel (10-20000 ppm (w/w)). Method for increasing oxidation stability of biodiesel, comprises adding a phenyl compound of formula (I), as primary antioxidant, with a melting point of smaller than 40[deg]C to a biodiesel (10-20000 ppm (w/w)). R 1>, R 2>H or 1-20C linear alkyl group or a-C(R 3>)(R 4>)(R 5>); R 3>, R 5>H or 1-20C linear alkyl group; and R 4>H or 1-40C linear alkyl group. An INDEPENDENT is included for an oxidation stable biodiesel. [Image].

IPC 8 full level

C10L 1/183 (2006.01); **C07C 39/04** (2006.01); **C09K 15/04** (2006.01); **C09K 15/08** (2006.01); **C10L 1/02** (2006.01); **C10L 1/19** (2006.01); **C10L 10/00** (2006.01)

CPC (source: EP KR US)

C10L 1/1832 (2013.01 - EP US); **C10L 1/198** (2013.01 - EP US); **C10L 10/00** (2013.01 - EP US); **E03D 1/14** (2013.01 - KR); **E03D 1/34** (2013.01 - KR); **E03D 5/10** (2013.01 - KR); **E03D 2001/147** (2013.01 - KR)

Citation (applicant)

- EP 0189049 A1 19860730 - HENKEL KGAA [DE]
- DE 10252714 A1 20040527 - BAYER AG [DE]
- WO 2004044104 A1 20040527 - BAYER CHEMICALS AG [DE], et al
- DE 10252715 A1 20040527 - BAYER AG [DE]

Citation (examination)

US 3166509 A 19650119 - ECKE GEORGE G, et al

Cited by

US8657890B2; WO2008121526A1; WO2009108747A1; EP2896682A1; WO2015106997A1; EP2597139A1; WO2013076266A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

DE 102005015474 A1 20061005; AR 054335 A1 20070620; AU 2006201342 A1 20061019; BR PI0601216 A 20061205; CA 2541591 A1 20061004; CN 1847369 A 20061018; EP 1736528 A2 20061227; EP 1736528 A3 20070110; JP 2006283028 A 20061019; KR 20060106903 A 20061012; NZ 546249 A 20070831; SG 126070 A1 20061030; US 2006218855 A1 20061005

DOCDB simple family (application)

DE 102005015474 A 20050404; AR P060101221 A 20060329; AU 2006201342 A 20060330; BR PI0601216 A 20060404; CA 2541591 A 20060331; CN 200610071929 A 20060403; EP 06101504 A 20060210; JP 2006098322 A 20060331; KR 20060030620 A 20060404; NZ 54624906 A 20060330; SG 200601627 A 20060310; US 38424106 A 20060321