

Title (en)  
PHOTOCATALYTIC DE-EMULSIFICATION

Title (de)  
PHOTOKATALYTISCHE EMULSIONSSPALTUNG

Title (fr)  
DESEMULSIFICATION PHOTOCATALYTIQUE

Publication  
**EP 1756011 A1 20070228 (DE)**

Application  
**EP 05749534 A 20050512**

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Abstract (en)  
[origin: WO2005113453A1] The invention relates to a method for photocatalytic de-emulsification with the aid of iron ions. The invention relates to a method for the de-emulsification of aqueous organic emulsions. Said method is characterised by the following steps a) addition of an oxidant and an iron compound containing Fe <2+ > or Fe <3+ > ions to an aqueous organic emulsion with a pH value = 5, b) irradiation of the emulsion with UV and/or VIS Light and c) deposition of the formed organic phase.

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C-Set (source: EP)  
**B01D 17/04 + B01D 17/047**

Citation (search report)  
See references of WO 2005113453A1

Citation (examination)  
• BOSSMANN S H ET AL: "DEGRADATION OF POLYVINYL ALCOHOL (PVA) BY HOMOGENEOUS AND HETEROGENEOUS PHOTOCATALYSIS APPLIED TO THE PHOTOCHEMICALLY ENHANCED FENTON REACTION", WATER SCIENCE AND TECHNOLOGY, IWA PUBLISHING, GB, vol. 44, no. 5, 1 January 2001 (2001-01-01), pages 257 - 262, XP009054245, ISSN: 0273-1223  
• SHUL'PIN ET AL: "Selective Photochemical Ketonization of Cyclohexane by Air in an Aqueous Emulsion in the Presence of Iron Ions", MENDELEEV COMMUNICATIONS, INSTITUTE OF PHYSICS PUBLISHING, BRISTOL, GB LNKD- DOI:10.1070/MC1995V005N04ABEH000498, vol. 5, no. 4, 1 January 1995 (1995-01-01), pages 143 - 145, XP022529284, ISSN: 0959-9436

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