Title (en)

ELECTROCHEMICAL METHOD FOR COUPLING PHENOL TO ANILINE

Title (de)

ELEKTROCHEMISCHES VERFAHREN ZUR KUPPLUNG VON PHENOL MIT ANILIN

Title (fr)

PROCÉDÉ ÉLECTROCHIMIQUE DE COUPLAGE DE PHÉNOL À ANILINE

Publication

EP 2964810 A1 20160113 (DE)

Application

EP 14705353 A 20140219

Priority

- DE 102013203869 A 20130307
- DE 102014202274 A 20140207
- EP 2014053231 W 20140219

Abstract (en)

[origin: WO2014135371A1] The invention relates to an electrochemical method for coupling phenol and aniline, the difference of the oxidation potential of the substrates being in the region of 10 mV - 450 mV and the substrate with the highest oxidation potential being added in excess. Said method enables biaryls, which have hydroxy-and amino functions, to be electrochemically produced and to dispense with multi-step syntheses using metallic reagents.

IPC 8 full level

C25B 3/23 (2021.01); **C25B 3/29** (2021.01)

CPC (source: EP US)

C25B 3/23 (2021.01 - EP US); **C25B 3/29** (2021.01 - EP US)

Citation (search report)

See references of WO 2014135371A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014135371 A1 20140912; AR 095048 A1 20150916; DE 102014202274 A1 20140925; DE 102014202274 B4 20161110; EP 2964810 A1 20160113; EP 2964810 B1 20161123; ES 2614989 T3 20170602; JP 2016517467 A 20160616; JP 6113308 B2 20170412; KR 20150126645 A 20151112; MY 175639 A 20200703; SG 11201507145Y A 20151029; TW 201504478 A 20150201; TW I588299 B 20170621; US 10422047 B2 20190924; US 2016017504 A1 20160121

DOCDB simple family (application)

EP 2014053231 W 20140219; AR P140100746 A 20140307; DE 102014202274 A 20140207; EP 14705353 A 20140219; ES 14705353 T 20140219; JP 2015560605 A 20140219; KR 20157027236 A 20140219; MY PI2015002210 A 20140219; SG 11201507145Y A 20140219; TW 103107442 A 20140305; US 201414773102 A 20140219