

Title (en)

METHOD FOR THE HYDROFORMYLATION OF OLEFINICALLY UNSATURATED COMPOUNDS, ESPECIALLY OLEFINS, IN THE PRESENCE OF CYCLIC CARBONIC ACID ESTERS

Title (de)

VERFAHREN ZUR HYDROFORMYLIERUNG VON OLEFINISCH UNGESÄTTIGTEN VERBINDUNGEN, INSbesondere OLEFINEN IN GEGENWART CYCLISCHER KOHLENSÄUREESTER

Title (fr)

PROCEDE D'HYDROFORMYLATION DE COMPOSES OLEFINIQUEMENT INSATURES, EN PARTICULIER D'OLEFINES, EN PRESENCE D'ESTERS CYCLIQUES D'ACIDE CARBONIQUE

Publication

EP 1532094 A1 20050525 (DE)

Application

EP 03790872 A 20030807

Priority

- DE 10240253 A 20020831
- DE 10327434 A 20030618
- EP 0308736 W 20030807

Abstract (en)

[origin: WO2004020380A1] The invention relates to a method for the production of aldehydes by catalysed hydroformylation of metals in the 8th 10th groups of the periodic table of elements of olefinically unsaturated compounds in the presence of cyclic carbonic acid esters and ligands which do not contain any sulfonic acid or sulfonate groups.

IPC 1-7

C07C 45/50

IPC 8 full level

C07B 61/00 (2006.01); **C07C 45/50** (2006.01); **C07C 47/02** (2006.01); **C07D 319/06** (2006.01)

CPC (source: EP KR US)

C07C 45/50 (2013.01 - EP KR US); **C07C 69/96** (2013.01 - KR); **C07D 319/06** (2013.01 - EP US)

Citation (search report)

See references of WO 2004020380A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2004020380 A1 20040311; AU 2003253389 A1 20040319; BR 0313866 A 20050705; CA 2496838 A1 20040311; CN 1315767 C 20070516; CN 1678557 A 20051005; EP 1532094 A1 20050525; JP 2005536560 A 20051202; JP 4523411 B2 20100811; KR 20050059116 A 20050617; MX PA05002283 A 20050608; PL 206145 B1 20100730; PL 373843 A1 20050919; RU 2005109389 A 20050827; RU 2337090 C2 20081027; US 2006241324 A1 20061026; US 7317130 B2 20080108

DOCDB simple family (application)

EP 0308736 W 20030807; AU 2003253389 A 20030807; BR 0313866 A 20030807; CA 2496838 A 20030807; CN 03820194 A 20030807; EP 03790872 A 20030807; JP 2004532060 A 20030807; KR 20057003260 A 20050225; MX PA05002283 A 20030807; PL 37384303 A 20030807; RU 2005109389 A 20030807; US 52537603 A 20030807