

Title (en)
CATALYST SYSTEM FOR THE MANUFACTURE OF CARBOXYLIC ACIDS AND/OR CARBOXYLIC ACID ANHYDRIDES

Title (de)
KATALYSATORSYSTEM ZUR HERSTELLUNG VON CARBONSÄUREN UND/ODER CARBONSÄUREANHYDRIDEN

Title (fr)
SYSTÈME DE CATALYSEUR POUR LA FABRICATION D'ACIDES CARBOXYLIQUES ET/OU D'ANHYDRIDES D'ACIDE CARBOXYLIQUE

Publication
EP 2024085 A1 20090218 (DE)

Application
EP 07729073 A 20070514

Priority

- EP 2007054621 W 20070514
- EP 06114230 A 20060519
- EP 07729073 A 20070514

Abstract (en)
[origin: WO2007135002A1] The present invention relates to a catalyst system for the manufacture of carboxylic acids and/or carboxylic acid anhydrides, which has at least four catalyst layers which are arranged one on top of the other in the reaction tube, with the ratio of the packed bed lengths of the selective catalyst layers to the packed bed lengths of the active catalyst layers lying between 1.4 and 2. In addition, the present invention relates to a method for gas-phase oxidation, by which a gasiform flow, which contains hydrocarbon and molecular oxygen, is conducted through several catalyst layers, with the ratio of packed bed lengths of the selective catalyst layers to the packed bed lengths of the active catalyst layers lying between 1.4 and 2.

IPC 8 full level
B01J 23/22 (2006.01); **B01J 27/198** (2006.01); **C07C 51/265** (2006.01); **C07C 51/31** (2006.01); **C07D 307/89** (2006.01)

CPC (source: EP US)
B01J 23/002 (2013.01 - EP US); **B01J 23/22** (2013.01 - EP US); **B01J 27/198** (2013.01 - EP US); **B01J 35/19** (2024.01 - EP US); **C07C 51/265** (2013.01 - EP US); **B01J 2523/00** (2013.01 - EP US)

C-Set (source: EP US)

1. **C07C 51/265** + **C07C 63/16**
2. **B01J 2523/00** + **B01J 2523/15** + **B01J 2523/47** + **B01J 2523/53** + **B01J 2523/55**
3. **B01J 2523/00** + **B01J 2523/47** + **B01J 2523/51** + **B01J 2523/55**

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007135002 A1 20071129; CN 101448571 A 20090603; EP 2024085 A1 20090218; JP 2009537316 A 20091029; TW 200745017 A 20071216; US 2009163726 A1 20090625

DOCDB simple family (application)
EP 2007054621 W 20070514; CN 200780018128 A 20070514; EP 07729073 A 20070514; JP 2009511456 A 20070514; TW 96117820 A 20070518; US 30142007 A 20070514