Title (en)
  CRANK DRIVE

Title (de)
  KURBELTRIEB

Title (fr)
  MÉCANISME À MANIVELLE

Publication
  EP 2454459 B1 20190403 (DE)

Application
  EP 10705391 A 20100226

Priority
  • EP 2010052479 W 20100226
  • DE 102009033249 A 20090714

Abstract (en)
  [origin: WO2011006683A1] The invention relates to a crank drive, having a frame, which may be formed in particular by a housing, having a rocker (1) positionally fixedly mounted on the frame, having a crank (3) which is positionally fixedly mounted on the frame and which forms the drive output, and having a coupler (5) which connects the rocker (1) and the crank (3), wherein the coupler (5) is articulatedly connected in each case to the crank (3) and to an end, which is situated opposite the positionally fixed mounting (2), of the rocker (1), wherein to drive the crank (3), a first cylinder (12) is provided which has a movably mounted piston (13), wherein the piston (13) and the rocker (1) are articulatedly connected to one another via a push rod (14) such that the axial movement of the piston (13) sets the rocker (1) in an oscillating swinging motion, and wherein the rocker (1) comprises a section (8) which is remote from the positionally fixed mounting of the rocker (1) and which is inclined by a fixed angle towards the coupler (5).

IPC 8 full level
  F02B 41/04 (2006.01); **F02B 75/32** (2006.01)

CPC (source: EP KR US)
  F02B 41/04 (2013.01 - EP KR US); **F02B 75/32** (2013.01 - EP KR US)

Citation (examination)
  • US 4538557 A 19850903 - KLEINER RUDOLPH R [US], et al
  • RU 2351784 C2 20090410 - VOROGUSHIN VLADIMIR ALEKSANDRO [RU]

Designated contracting state (EPC)
  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 SE SI SK SM TR

DOCDB simple family (publication)
  DE 102009033249 B3 20110120; BR 112012001066 A2 20160329; CN 102472164 A 20120523; EP 2454459 A1 20120523; EP 2454459 B1 20190403; JP 2012533023 A 20121220; JP 5716253 B2 20150513; KR 20120053500 A 20120525; PL 2454459 T3 20191231; RU 2012104401 A 20130820; RU 2535590 C2 20141220; US 2012180752 A1 20120719; US 9464570 B2 20161011; WO 2011006683 A1 20110120

DOCDB simple family (application)
  DE 102009033249 A 20090714; BR 112012001066 A 20100226; CN 201080031865 A 20100226; EP 10705391 A 20100226; EP 2010052479 W 20100226; JP 2012519939 A 20100226; KR 20127003918 A 20100226; PL 10705391 T 20100226; RU 2012104401 A 20100226; US 201013384367 A 20100226