

Title (en)
CATALYST AND PROCESS.

Title (de)
KATALYSATOR UND VERFAHREN.

Title (fr)
CATALYSEUR ET PROCEDE DE CATALYSE.

Publication
EP 0641255 A4 19941107 (EN)

Application
EP 92923495 A 19921113

Priority
• AU 9200613 W 19921113
• AU PK949191 A 19911115

Abstract (en)
[origin: WO9309870A1] The specification describes an alkanol decomposition catalyst comprising copper and nickel supported on a suitable carrier. Suitable carriers include silica, magnesia and silica/magnesia. The catalyst may be promoted with an element selected from Groups I to VIII of the Periodic Table. The specification also discloses a process for decomposing an alkanol. The process comprises heating an alkanol to an elevated temperature and contacting the heated alkanol with the alkanol decomposition catalyst. A method of improving the energy efficiency of methanol when used as a fuel in an internal combustion engine is also disclosed. The method involves contacting heated methanol with the alkanol decomposition catalyst and combusting the decomposition products in the internal combustion engine.

IPC 1-7
B01J 23/72; **B01J 23/74**; **B01J 23/78**

IPC 8 full level
B01J 23/755 (2006.01); **B01J 23/76** (2006.01); **C10L 1/02** (2006.01)

CPC (source: EP)
B01J 23/755 (2013.01); **B01J 23/76** (2013.01)

Citation (search report)
• [A] DE 2606068 A1 19770818 - EXXON RESEARCH ENGINEERING CO
• [A] EP 0147838 A2 19850710 - VEG GASINSTITUUT NV [NL]
• [A] DE 2641113 A1 19780316 - METALLGESELLSCHAFT AG
• [A] DE 2716933 B1 19780209 - BASF AG
• See references of WO 9309870A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL SE

DOCDB simple family (publication)
WO 9309870 A1 19930527; EP 0641255 A1 19950308; EP 0641255 A4 19941107; JP H07504841 A 19950601

DOCDB simple family (application)
AU 9200613 W 19921113; EP 92923495 A 19921113; JP 50882793 A 19921113