

Title (en)

APPLICATION OF POLYGLYCOLS SOLUBLE IN WATER AS LUBRICANT IN MECHANICAL EXPANDERS EFFECTING THE COLD STRAIGHTENING AND GAUGING OF LENGTHWISE WELDED STEEL TUBES

Publication

EP 0059296 B1 19840502 (EN)

Application

EP 81830137 A 19810729

Priority

EP 81830137 A 19810729

Abstract (en)

[origin: EP0059296A1] A lubricant comprising water-soluble mixtures of polyglycols or glycolcopolymers obtained by the copolymerisation of propylene oxide and ethylene oxide, both etherised and having the following properties: a resistance to compression higher than 12kg/mm²; resistance to washing with water at low water pressure (lower than 3-4kg/cm²); no resistance at high water pressure (higher than 3-4kg/cm²). The lubricant can be discharged after each working cycle in the waste water.

IPC 1-7

C10M 3/22; C10M 1/28; B21D 39/20

IPC 8 full level

C10M 107/34 (2006.01); **C10M 145/34** (2006.01); **C10M 173/00** (2006.01); **C10M 173/02** (2006.01); **C10N 20/00** (2006.01); **C10N 30/06** (2006.01); **C10N 40/00** (2006.01)

CPC (source: EP)

C10M 173/00 (2013.01); **C10M 173/02** (2013.01); **C10M 2201/02** (2013.01); **C10M 2207/40** (2013.01); **C10M 2207/404** (2013.01); **C10M 2209/104** (2013.01); **C10M 2209/105** (2013.01); **C10M 2209/107** (2013.01); **C10N 2020/01** (2020.05); **C10N 2040/24** (2013.01); **C10N 2040/241** (2020.05); **C10N 2040/242** (2020.05); **C10N 2040/243** (2020.05); **C10N 2040/244** (2020.05); **C10N 2040/245** (2020.05); **C10N 2040/246** (2020.05); **C10N 2040/247** (2020.05); **C10N 2050/01** (2020.05)

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

EP 0059296 A1 19820908; **EP 0059296 B1 19840502**; DE 3163392 D1 19840607; GB 2104096 A 19830302; GB 2104096 B 19850814; JP H0246636 B2 19901016; JP S5821490 A 19830208

DOCDB simple family (application)

EP 81830137 A 19810729; DE 3163392 T 19810729; GB 8221328 A 19820723; JP 2427182 A 19820216