Title (en)
DEVICE FOR CLEANING AN INNER PIPE INSERTED INTO A GAS OR OIL CONVEYING BORING

Title (de)
VORRICHTUNG ZUM REINIGEN EINES IN EINE GAS- ODER ÖLFÖRDERBOHRUNG EINGELASSENEN INNENROHRES

Title (fr)
SYSTEME POUR NETTOYER UN TUBE INTERIEUR LOGE DANS UN TROU DE FORAGE DE PETROLE OU DE GAZ

Publication
EP 1442197 B1 20050413 (DE)

Application
EP 02777114 A 20020916

Priority
• DE 10145854 A 20010917
• EP 0210356 W 20020916

Abstract (en)
[origin: WO03025339A1] The invention relates to a device for cleaning an inner pipe inserted into a gas or oil conveying boring. This device comprises a hollow rod inside of which a pressurized medium can be conveyed and to which a cleaning device is connected in a fixed manner. The cleaning device has a rotatable head provided with cleaning nozzles (5), which are arranged diagonal to the longitudinal axis, with lateral, eccentrically oriented rotary nozzles (6), and with rinsing nozzles (12) extending diagonal to the cleaning nozzles (5) in the opposite direction. The inventive device is provided with redundant safeguards with which, in the event that the shaft breaks, moving parts of the nozzle head (1) and of the shaft (2) are prevented from detaching from a stationary outer sleeve (3) connected to the retaining rod whereby preventing parts from becoming lost.

IPC 1-7
E21B 37/00

IPC 8 full level
B08B 9/053 (2006.01); **E21B 37/00** (2006.01); **E21B 41/00** (2006.01)

CPC (source: EP US)
E21B 37/00 (2013.01 - EP US); **E21B 41/0078** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03025339 A1 20030327; AT E293204 T1 20050415; DE 10145854 A1 20030410; DE 50202802 D1 20050519; EP 1442197 A1 20040804; EP 1442197 B1 20050413; US 2004016540 A1 20040129; US 6840315 B2 20050111

DOCDB simple family (application)
EP 0210356 W 20020916; AT 02777114 T 20020916; DE 10145854 A 20010917; DE 50202802 T 20020916; EP 02777114 A 20020916; US 62880703 A 20030728