

Title (en)  
COAXIAL LUBRICATION SYSTEM

Title (de)  
KOAXIALSCHMIERSYSTEM

Title (fr)  
SYSTEME DE LUBRIFICATION COAXIAL

Publication  
**EP 1511595 A1 20050309 (EN)**

Application  
**EP 03760290 A 20030612**

Priority  
• US 0318535 W 20030612  
• US 38820402 P 20020612

Abstract (en)  
[origin: WO03106104A1] Lubricated and pressurized air is reliably provided to a machining point in machining a comparatively deep point in a workpiece via an inexpensive and simple coaxial manifold (17). Pressurized air enters an annular flow path (S1) and pressurized lubricant enters a central, coaxial flow path (S2) that terminates near the tool (2) and workpiece.

IPC 1-7  
**B23Q 11/10**

IPC 8 full level  
**B23Q 1/00** (2006.01); **B23Q 11/10** (2006.01)

CPC (source: EP)  
**B23Q 11/1015** (2013.01); **B23Q 11/103** (2013.01); **B23Q 11/1046** (2013.01); **Y02P 70/10** (2015.11)

Cited by  
US9616540B2; US9931724B2

Designated contracting state (EPC)  
DE

DOCDB simple family (publication)  
**WO 03106104 A1 20031224**; EP 1511595 A1 20050309; EP 1511595 A4 20070328; JP 2005529757 A 20051006

DOCDB simple family (application)  
**US 0318535 W 20030612**; EP 03760290 A 20030612; JP 2004512976 A 20030612