

Title (en)
IMPULSE DRIVE SYSTEM, ESPECIALLY FOR AN IMPULSE SCREWDRIVER

Title (de)
IMPULSSCHLAGWERK, INSBESONDERE FÜR IMPULSSCHRAUBER

Title (fr)
SYSTEME A IMPULSIONS OPERANT PAR CHOC, EN PARTICULIER POUR UN TOURNEVIS A IMPULSIONS

Publication
EP 0735935 A1 19961009 (DE)

Application
EP 95902761 A 19941214

Priority
• DE 9401484 W 19941214
• DE 4343582 A 19931221

Abstract (en)
[origin: WO9517281A1] The impulse drive system (12) has a rotating body (13) connected to a drive spindle (14) in which there is an aperture (16) for a core component (17) concentric with the axis of rotation (15). The core component (17) is fitted to rotate with an output shaft (25). In addition, the rotating body (13) has a radial drilling (18) perpendicular to the axis of rotation (15) in which a piston (19) can move radially. The piston (19) has a through aperture (20) through which the core component (17) can be engaged. With its inner surface facing the core component (17), the piston forms a control surface (36) which co-operates with a control path (37) with control cams (38) formed on the core component (17). During relative rotation of the rotating body (13) and the core component (17), the piston (19) makes a radial stroke. A pressure medium in a pressure chamber (40) is thereby pressurised so that a rotary pulse is transmitted via the control surface (36) and the control path (37) to the output shaft (25).

IPC 1-7
B25B 21/02; **B25B 23/145**

IPC 8 full level
B25B 21/02 (2006.01); **B25B 23/145** (2006.01)

CPC (source: EP US)
B25B 21/02 (2013.01 - EP US); **B25B 23/1453** (2013.01 - EP US)

Citation (search report)
See references of WO 9517281A1

Citation (third parties)
Third party :
• US 4533337 A 19850806 - SCHOEPS KNUT C [SE]
• JP S4914839 A 19740208

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
DE 4343582 A1 19950622; DE 59409278 D1 20000511; EP 0735935 A1 19961009; EP 0735935 B1 20000405; JP H10501180 A 19980203; US 5735354 A 19980407; WO 9517281 A1 19950629

DOCDB simple family (application)
DE 4343582 A 19931221; DE 59409278 T 19941214; DE 9401484 W 19941214; EP 95902761 A 19941214; JP 51708895 A 19941214; US 66654796 A 19960916