

Title (en)

TWIN DELIVERY SCREWS PROVIDED FOR INSTALLATION IN POSITIVE-DISPLACEMENT MACHINES, ESPECIALLY PUMPS

Title (de)

ZWILLINGS-FÖRDERSCHRAUBEN ZUM EINBAU IN VERDRÄNGERMASCHINEN, INSBESONDERE PUMPEN

Title (fr)

VIS SANS FIN JUMELLES DESTINEES A ETRE INSTALLEES DANS DES MACHINES DE DEPLACEMENT, EN PARTICULIER DES POMPES

Publication

EP 1151199 A1 20011107 (DE)

Application

EP 99973677 A 19991207

Priority

- EP 99973677 A 19991207
- CH 9900587 W 19991207
- EP 99810101 A 19990208

Abstract (en)

[origin: EP1026399A1] The end profile of each screw is multiple-start but not point-symmetrical. Just one flank(6) of one tooth is formed as a cycloidal concave flank, and all the three other flanks(8-10) are convexly curved. Through corresponding construction of the individual end profile and limiting curves there is conformity of profile centre of gravity and centre of rotation. The end profile has two teeth formed from the aforesaid cycloidal concave flank, three convex flanks, two addendum circle curves(K) of equal radius, and two dedendum circle curves(F) of equal radius.

IPC 1-7

F04C 2/08; **F04C 2/16**

IPC 8 full level

F04C 18/16 (2006.01); **F04C 2/08** (2006.01); **F04C 2/16** (2006.01)

CPC (source: EP)

F04C 2/084 (2013.01)

Citation (search report)

See references of WO 0047897A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

DOCDB simple family (publication)

EP 1026399 A1 20000809; AU 1371400 A 20000829; CA 2362075 A1 20000817; CN 1334904 A 20020206; EP 1151199 A1 20011107; JP 2002536593 A 20021029; WO 0047897 A1 20000817

DOCDB simple family (application)

EP 99810101 A 19990208; AU 1371400 A 19991207; CA 2362075 A 19991207; CH 9900587 W 19991207; CN 99816093 A 19991207; EP 99973677 A 19991207; JP 2000598773 A 19991207