

Title (en)  
DOWNHOLE SCREW MOTOR.

Title (de)  
SCHRAUBEN-BOHRLOCHSOHLENMOTOR.

Title (fr)  
MOTEUR DE FOND DU TYPE A VIS.

Publication  
**EP 0264444 A4 19890412 (DE)**

Application  
**EP 86901283 A 19851230**

Priority  
SU 8500107 W 19851230

Abstract (en)  
[origin: EP0264444A1] A downhole screw motor is intended for drilling oil and gas wells. The downhole screw motor comprises a stator (3) and a hollow rotor (4) in the axial channel (5) of which is mounted a flow regulator (6) with a nozzle (16). The surface of the nozzle (16), around which the working liquid flows, is formed by two consecutively located chambers: a receiving one (A) and a discharging one (B), the surfaces (19, 20) of which are conjugated along a break line (21). The part (22) of the receiving chamber (A) which adjoins the break line (21) has a convex form in the direction of flow of the working liquid, whereas the cross-sectional area of the receiving chamber (A) at its outlet is smaller than at its inlet.

IPC 1-7  
**E21B 4/02**

IPC 8 full level  
**E21B 4/02** (2006.01); **F04C 14/24** (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP)  
**E21B 4/02** (2013.01); **F04C 14/24** (2013.01); **F04C 15/06** (2013.01)

Citation (search report)

- [A] US 4397619 A 19830809 - ALLIQUANDER OEDOEN [HU], et al
- See references of WO 8704215A1

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

DOCDB simple family (publication)  
**EP 0264444 A1 19880427; EP 0264444 A4 19890412; EP 0264444 B1 19910724**; AT E65583 T1 19910815; BR 8507322 A 19880209; DE 3583618 D1 19910829; DK 422487 A 19870813; DK 422487 D0 19870813; JP H0412800 B2 19920305; JP S63501965 A 19880804; NO 168436 B 19911111; NO 168436 C 19920219; NO 873582 D0 19870825; NO 873582 L 19870825; WO 8704215 A1 19870716

DOCDB simple family (application)  
**EP 86901283 A 19851230**; AT 86901283 T 19851230; BR 8507322 A 19851230; DE 3583618 T 19851230; DK 422487 A 19870813; JP 50153486 A 19851230; NO 873582 A 19870825; SU 8500107 W 19851230