

24 JUN 2002

2002038222



162162

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
2 August 2001 (02.08.2001)

PCT

(10) International Publication Number
WO 01/55551 A1(51) International Patent Classification⁷: E21B 41/00

(21) International Application Number: PCT/US01/02305

(22) International Filing Date: 24 January 2001 (24.01.2001)

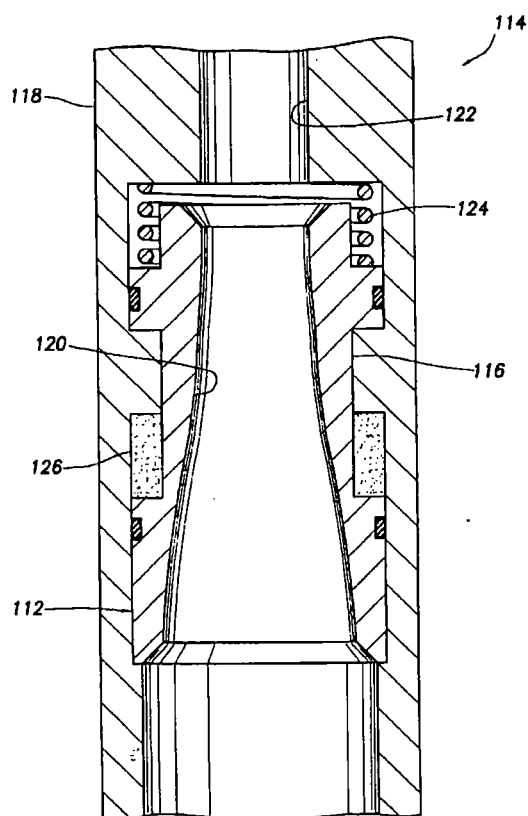
(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/493,801 28 January 2000 (28.01.2000) US(71) Applicant: HALLIBURTON ENERGY SERVICES,
INC. [US/US]; 2601 Beltline Road, Carrollton, TX 75006
(US).(72) Inventors: SCHULTZ, Roger, L.; 4792 Red Oak Cir-
cle, Aubrey, TX 76227 (US). RINGGENBERG, Paul, D.;5906 Sandy Pine Court, Spring, TX 77379 (US). ROBI-
SON, Clark, E.; 11815 Newlands Court, Toball, TX 77375
(US). MICHAEL, Robert, K.; 3316 Hilltop Lane, Plano,
TX 75023 (US). BAYH, Russell, I., III; 3715 Canon Gate
Circle, Carrollton, TX 75007 (US).(74) Agent: SMITH, Marlin, R.; Konneker & Smith, P.C.,
Suite 230, 660 North Central Expressway, Plano, TX 75074
(US).(81) Designated States (*national*): AE, AG, AL, AM, AT, AT
(utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility
model), DK, DK (utility model), DM, DZ, EE, EE (utility
model), ES, FI, FI (utility model), GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK
(utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
YU, ZA, ZW.

[Continued on next page]

(54) Title: VIBRATION BASED DOWNHOLE POWER GENERATOR

(57) Abstract: A downhole power generator produces electrical
power for use by downhole tools. In a described embodiment, a
downhole power generator includes a member that is vibrated in
response to fluid flow through a housing. Vibration of the member
causes a power generating assembly to generate electrical power.

WO 01/55551 A1



ACTION

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.