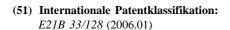
(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

WIPOPCT

- (19) Weltorganisation für geistiges Eigentum Internationales Büro
- (43) Internationales Veröffentlichungsdatum 30. Januar 2020 (30.01.2020)



(10) Internationale Veröffentlichungsnummer WO~2020/021002~Al



(21) Internationales Aktenzeichen: PCT/EP20 19/070023

(22) Internationales Anmeldedatum:

25. Juli 2019 (25.07.2019)

(25) Einreichungssprache:

Deutsch

(26) Veröffentlichungssprache:

Deutsch

(30) Angaben zur Priorität: 10 2018 118 121.3

26. Juli 2018 (26.07.2018) DE

(71) Anmelder: ZIPP INDUSTRIES GMBH & CO. KG [DE/DE]; Erwin-Topp-Straße 3, 44866 Bochum (DE).

- (72) Erfinder: ZIPP, Sascha; Bonhoefferstr. 86, 44803 Bonchum (DE).
- (74) Anwalt: SCHNEIDERS & BEHRENDT PARTMBB et al.; Huestraße 23, 44787 Bochum (DE).
- (81) Bestimmungsstaaten (soweit nicht anders angegeben, für jede verfügbare nationale Schutzrechtsart): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.



(54) Bezeichnung: BOHRLOCHVERSCHLUSSVORRICHTUNG

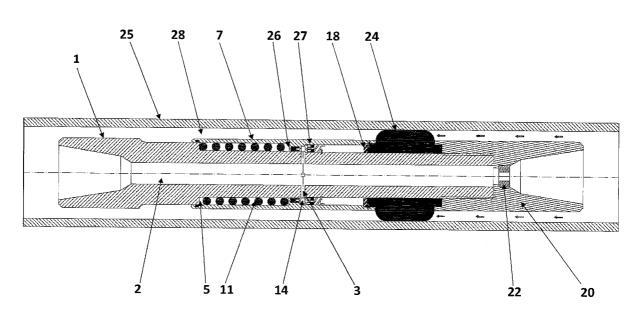


Fig. /

(57) Abstract: The invention relates to a borehole sealing device for performing drilling in a borehole while Controlling the water outlet from the borehole, having a basic pipe (1) and a sleeve (7) which is located longitudinally movably on the outer face of the basic pipe (1). A spring (11) is arranged between the basic pipe (1) and the sleeve (7) such that a longitudinal displacement of the sleeve (7) relative to the basic pipe (1) in one of the longitudinal directions is possible only by overcoming the spring force. A radially expandable elastomeric element (24) is fixed on the outer face of the borehole sealing device such that the elastomeric element is axially connected to or adjoins the sleeve (7), such that a displacement of the sleeve (7) in the longitudinal direction against the spring force brings about a reduction in the radial dimensions of the elastomeric element (24) and a displacement of the sleeve (7) in the longitudinal direction corresponding to the spring force brings about a radial expansion of the elastomeric element (24), which effects sealing relative to an outer pipe (25) arranged around the borehole sealing device. The wall of the basic pipe (1) has one or more radial passages (3) which