



(11) **EP 3 807 491 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(48) Corrigendum issued on:
25.09.2024 Bulletin 2024/39

(45) Date of publication and mention
of the grant of the patent:
14.08.2024 Bulletin 2024/33

(21) Application number: **19769258.5**

(22) Date of filing: **18.06.2019**

(51) International Patent Classification (IPC):
E21B 17/10^(2006.01)

(52) Cooperative Patent Classification (CPC):
E21B 17/1021; E21B 17/1057

(86) International application number:
PCT/US2019/037743

(87) International publication number:
WO 2019/246105 (26.12.2019 Gazette 2019/52)

(54) **DOWNHOLE CENTRALIZER**
BOHRLOCHZENTRIERER
CENTREUR DE FOND DE TROU

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

(30) Priority: **18.06.2018 US 201862686090 P**

(43) Date of publication of application:
21.04.2021 Bulletin 2021/16

(60) Divisional application:
24186525.2 / 4 431 696

(73) Proprietor: **Impact Selector International, LLC**
Heath, TX 75032 (US)

(72) Inventors:
• **MASSEY, James Patrick**
Leadville, Colorado 80461 (US)
• **MARTIN, Brandon**
Forney, Texas 75126 (US)

(74) Representative: **Patentanwälte und Rechtsanwalt**
Weiß, Arat & Partner mbB
Zeppelinstraße 4
78234 Engen (DE)

(56) References cited:
US-A- 5 005 642 US-A- 5 758 723
US-A1- 2003 173 076 US-A1- 2005 279 498
US-A1- 2007 181 298

- **BARRATT MARTIN ET AL: "Field Operations & Maintenance Manual HAC001 Helical 4 Arm Centraliser", 22 February 2012 (2012-02-22), Calgary, Alberta, T2E 6W1, Canada, pages 1 - 42, XP093059166, Retrieved from the Internet <URL:https://pdfcoffee.com/field-operations-am-p-maintenance-manual-hac001-helical-4-arm-centraliser-pdf-free.html> [retrieved on 20230629]**
- **SMITH MAURICE: "?Unique technology and foreign market ties prove key to success for Alberta Export Award winner - JWN Energy", 20 September 2017 (2017-09-20), pages 1 - 5, XP093059164, Retrieved from the Internet <URL:https://www.jwnenergy.com/article/2017/9/20/unique-technology-and-foreign-market-ties-prove-ke/> [retrieved on 20230629]**

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).