

Title (en)
DOWNHOLE EXPANDABLE METAL TUBULAR

Title (de)
EXPANDIERBARES BOHRLOCHMETALLROHR

Title (fr)
TUBE MÉTALLIQUE EXPANSIBLE DE FOND DE TROU

Publication
EP 4223976 A1 20230809 (EN)

Application
EP 22155204 A 20220204

Priority
EP 22155204 A 20220204

Abstract (en)
The present invention relates to a downhole expandable metal tubular to be expanded in a well from a first outer diameter to a second outer diameter to abut against an inner face of a casing or borehole, the downhole expandable metal tubular having an axial extension, a circumference and an outer face, wherein the downhole expandable metal tubular is of metal with at least one first intergral circumferential sealing element of metal as part of the outer face, providing the downhole expandable metal tubular with a first circumferential projection, and the at least one intergral circumferential sealing element at least partly defines a cavity having an opening. Moreover, the present invention also relates to a downhole expandable metal tubular assembly further comprising at least one end tubular, a patch for being expanded within a well tubular metal structure for sealing off leaks, perforations or apertures in the well tubular metal structure, and an annular barrier to be expanded in an annulus between a well tubular structure and an inner face of a borehole or a casing downhole for providing zone isolation between a first zone and a second zone of the borehole.

IPC 8 full level
E21B 33/12 (2006.01); **E21B 33/127** (2006.01); **E21B 43/10** (2006.01)

CPC (source: EP)
E21B 33/1212 (2013.01); **E21B 33/1277** (2013.01); **E21B 43/103** (2013.01)

Citation (search report)
• [X] GB 2404677 A 20050209 - WEATHERFORD LAMB [US]
• [A] EP 3106606 A1 20161221 - WELLTEC AS [DK]
• [A] WO 02059452 A1 20020801 - E2 TECH LTD [NL], et al

Designated contracting state (EPC)
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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4223976 A1 20230809; CN 118434956 A 20240802

DOCDB simple family (application)
EP 22155204 A 20220204; CN 202380015454 A 20230106