

Title (en)

Metal seal casing patch.

Title (de)

Einrichtung mit metallischer Dichtung zur Reparatur eines Futterrohres.

Title (fr)

Ensemble de réparation avec joint métallique de cuvelage.

Publication

EP 0418056 B1 19951108 (EN)

Application

EP 90309981 A 19900912

Priority

GB 8920607 A 19890912

Abstract (en)

[origin: EP0418056A1] A patch for oil-well casing has a metal-to-metal seal formed by a seal ring (20) forced against a casing stub (10) by a tapered face (42) on a seal body (12). The seal ring (20) has internal annular ribs (52) which are plastically deformed when the seal is set. The material of the seal ring (20) is chosen to give suitable strength and ductility for such deformation, a suitable material being a low alloy Cr-Ni-Mo steel with a carbon content about 0.2%.

IPC 1-7

E21B 29/10; **E21B 17/02**; **E21B 33/10**

IPC 8 full level

E21B 17/08 (2006.01); **E21B 23/01** (2006.01); **E21B 29/10** (2006.01); **E21B 33/10** (2006.01)

CPC (source: EP)

E21B 17/08 (2013.01); **E21B 23/01** (2013.01); **E21B 29/10** (2013.01); **E21B 33/10** (2013.01)

Cited by

AU2013239039B2; US6021850A; AU646589B2; GB2615701A; US6073692A; GB2312906A; GB2312906B; US6817598B2; CN107208460A; EP3656972A1; GB2461620A; GB2461620B; CN105464611A; US11560769B2; US10309562B2; GB2456943A; GB2398089A; GB2398089B; GB2477242A; GB2456943B; GB2477242B; AU2007319499B2; WO2008130815A1; WO2016079664A1; US10612349B2; US11193357B2; WO2022109014A1; US8167312B2; US8777228B2; US10689918B2; US6446724B2; US6561271B2; US6598677B1; US6631765B2; US6915852B2; WO2008060893A3; WO03024634A3

Designated contracting state (EPC)

DE DK FR GB IT NL

DOCDB simple family (publication)

EP 0418056 A1 19910320; **EP 0418056 B1 19951108**; DE 69023443 D1 19951214; GB 8920607 D0 19891025; NO 301657 B1 19971124; NO 903984 D0 19900912; NO 903984 L 19910313

DOCDB simple family (application)

EP 90309981 A 19900912; DE 69023443 T 19900912; GB 8920607 A 19890912; NO 903984 A 19900912