Title (en)
MECHANISM FOR DROPPING A PLURALITY OF BALLS INTO TUBULARS USED IN DRILLING, COMPLETION AND WORKOVER OF WELLS

Title (de)
Verfahren zum Einbringen mehrerer Kugeln in Rohre, welche beim Bohren, Komplettieren und Überarbeiten von Brunnen verwendet werden

Title (fr)
MECANISME PERMETTANT DE FAIRE TOMBER PLUSIEURS BOULETS DANS DES TUBAGES UTILISES DANS LE FORAGE, LA COMPLETION ET LE RECONDITIONNEMENT DES PUITS

Publication
EP 2060736 A3 20130918 (EN)

Application
EP 09154301 A 20000426

Priority
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• US 13204499 P 19990430
• US 55924100 A 20000426

Abstract (en)
[origin: EP2060736A2] A mechanism for dropping at least one ball from at or near the earth's surface into a tubular string suspended in a wellbore, comprises a mandrel insertable into a bore of a tubular string. The mandrel has a seal 29 which is sealingly engageable with the tubular string, and an interior passage which is in fluid communication with the bore of the tubular string. The mechanism also comprises a sub 84 having an interior passage 88 in fluid communication with the interior passage of the mandrel, and a ball drop apparatus 64. A ball port 86 extends between the ball drop apparatus 64 and the interior passage 88 of the sub 84, whereby at least one ball 68, 70 is releasable by the ball drop apparatus 64 into the interior passage 88 of the sub 84 through the ball port 86 for pumping through the interior passage of the mandrel and into the bore of the tubular string.

IPC 8 full level
E21B 33/16 (2006.01); **E21B 33/05** (2006.01); **E21B 33/068** (2006.01)

CPC (source: EP US)
E21B 33/05 (2013.01 - EP); **E21B 33/068** (2013.01 - EP); **E21B 33/165** (2020.05 - EP US)

Citation (search report)
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US9528356B2

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