

Title (en)  
Expandable retaining shoe

Title (de)  
Aufweitbarer Schuhhalter

Title (fr)  
Sabot de retenue expansible

Publication  
**EP 1286019 A1 20030226 (EN)**

Application  
**EP 02255754 A 20020819**

Priority  
US 93404501 A 20010820

Abstract (en)  
A downhole packer tool (10), in which extrusion of the packer element is limited, comprises a mandrel (28) having a packer element assembly (56). Packer retaining shoes (68, 70) are disposed about the mandrel at the ends of the packer element assembly. The packer retaining shoes have an inner retainer (80) and an outer retainer (82), the inner retainer having a plurality of segments (96) having gaps (106) therebetween that expand in width when the retaining shoe is moved from the initial position in which it is disposed about the mandrel to an expanded position wherein it engages the casing to limit the extrusion of the packer element assembly. The outer shoe is likewise made up of a plurality of segments (108) having gaps (128) therebetween that will expand. The inner shoe segments cover the gaps that exist between the outer shoe segments and the outer shoe segments cover the gaps that exist between the inner shoe segments so that extrusion is limited. The retaining shoes provide enhanced high temperature and higher pressure performance in that extrusion in wells having high temperature and high pressure is severely limited if not completely prevented. <IMAGE> <IMAGE>

IPC 1-7  
**E21B 33/12**

IPC 8 full level  
**E21B 33/12** (2006.01)

CPC (source: EP)  
**E21B 33/1204** (2013.01); **E21B 33/1216** (2013.01)

Citation (applicant)  

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