

Title (en)  
Stress relief joints for risers

Title (de)  
Zugentlastungsverbindung für Steigrohre

Title (fr)  
Joint de relaxation des contraintes pour colonnes montantes

Publication  
**EP 0911482 B1 20041020 (EN)**

Application  
**EP 98308732 A 19981026**

Priority  
US 95849597 A 19971027

Abstract (en)  
[origin: EP0911482A2] A stress relief joint (10) for use with riser pipe (22) in floating systems wherein a vessel is subjected to variable motion caused by wind, currents and/or wave action. The riser pipe (22) has one end connectable to the sea floor and an upper portion arranged to pass through an opening at the bottom of the vessel. The lower end, which is connectable to other pipes at the sea floor, is provided with concentric pipes or sleeves (30, 32) around the riser (22). The lower ends of the pipes (30, 32) and riser (22) are welded to a flange (34). The upper end of each of the concentric pipes (30, 32) extends beyond the upper end of the pipe immediately surrounding it. The annulus between the concentric pipes (30, 32) and the riser (22) may be filled with a durable and pliable material (36). Also, shims (38) may be inserted in the annulus at the end of each pipe segment. <IMAGE>

IPC 1-7  
**E21B 17/01**; **E21B 17/02**; **F16L 35/00**; **B63B 21/50**

IPC 8 full level  
**E21B 17/01** (2006.01); **B63B 21/50** (2006.01)

CPC (source: EP)  
**E21B 17/017** (2013.01); **B63B 21/502** (2013.01)

Cited by  
US8844632B2; CN113883339A; FR2930587A1; US6865791B2; US9217300B1; AU2014391862B2; FR2930618A1; US2011083853A1; US7575254B2; US9741212B2; WO2005073496A1; WO2009138610A1; WO2005021926A1; WO2015161894A1; US7210504B2; US7069958B2

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**EP 98308732 A 19981026**; AU 8950298 A 19981026; BR 9804215 A 19981026; FI 982309 A 19981026; NO 984975 A 19981026; OA 9800203 A 19981027