

Title (en)

Method for containing fluid or solid materials using a pressure barrier liner; methods for constructing and testing such a liner.

Title (de)

Verfahren zum Zurückhalten von flüssigen oder festen Materialien mittels einer Drucksperrschicht; Verfahren zum Herstellen und Prüfen dieser Schicht.

Title (fr)

Procédé pour contenir des matériaux fluides ou solides utilisant une barrière à pression; procédés de construction et d'essai d'une telle barrière.

Publication

EP 0251026 A2 19880107 (EN)

Application

EP 87108665 A 19870616

Priority

US 87711686 A 19860623

Abstract (en)

A pressure barrier liner (38) has a plurality of low permeability membranes (42, 44) disposed one above the other. A region of relatively high permeability is encapsulated between each adjacent pair of membranes. Pressurizing means may be used to introduce (58) pressurized fluid such as air or water into a selected group of the high permeability regions (46) to pressurize them to a selected pressure or pressures, thereby ensuring that any flow through the membranes (42, 44) or through disruptions in the membranes will be from within the pressurized regions to the regions outside the membranes (42, 44) which encapsulate the pressurized regions, rather than from the fluid storage region above the membranes, through the membranes and into the region beneath the membranes which is to be protected by the liner. Alternatively, depressurizing means may be used to depressurize a selected group of the high permeability regions to a selected pressure or pressures thereby ensuring that any fluid flow through disruptions in the membranes (42, 44) is directed to and withdrawn by the depressurizing means, thus again preventing fluid escapement from the fluid containment region above the membranes, through the membranes and into the region beneath the membranes which is to be protected by the liner.

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E02D 31/00

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Cited by

DE4123728A1; GB2287973B; AU653796B2; CN105275021A; FR2720089A1; NL1000366C2; US5335535A; DE4213585A1; US5570974A; DE8811270U1; DE29504458U1; CN109162272A; WO9216316A1; WO9611304A1

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