

Title (en)  
Sample receiving and mixing device.

Title (de)  
Probenempfang und Mischvorrichtung.

Title (fr)  
Dispositif pour recevoir et mélanger des échantillons.

Publication  
**EP 0092975 A1 19831102 (EN)**

Application  
**EP 83302261 A 19830421**

Priority  
GB 8212184 A 19820427

Abstract (en)  
This invention relates to a device for receiving and mixing samples comprising an enclosed cylindrical chamber (1) provided with: (a) a fixed, centrally located transverse baffle (2) which has at least one port (3) to allow a sample to pass from one side thereof to the other, (b) two pistons (11) and (12) capable of movement in response to applied fluid pressure on either side of the baffle which define two fluid-tight sub-chambers (13) and (14) of variable volume, (c) means (5) and (8) for introducing and withdrawing sample from the sub-chambers, and (d) means (19) and (20) for applying fluid pressure onto the pistons, whereby the movement of the pistons in tandem with respect to the baffle forces the sample from one sub-chamber to the other through the baffle ports thereby achieving mixing. The improved sample receiving and mixing device is particularly suitable for storing materials having a high vapour pressure such as 'spiked' crude oils which are crude oils into which light hydrocarbons have been injected, or, live crude oil which is crude oil as extracted prior to degasification. The device has no external dynamic seals susceptible to leakage.

IPC 1-7  
**B29B 1/06**; **B01F 5/12**; **E21B 49/08**; **B01L 11/00**

IPC 8 full level  
**B01F 11/00** (2006.01); **B01F 5/06** (2006.01); **B65D 25/02** (2006.01); **E21B 49/08** (2006.01); **G01N 1/10** (2006.01)

CPC (source: EP)  
**B01F 25/4512** (2022.01); **E21B 49/086** (2013.01)

Citation (search report)  
• [X] FR 2447260 A1 19800822 - EURO LINEA SNC DI COLOMBO ET C  
• [A] FR 2172334 A1 19730928 - HURLIMANN HANS [CH]  
• [A] FR 2152452 A1 19730427 - MERLIN GERIN

Cited by  
CN111347577A; AU771007B2; EP0681863A3; US5823671A; GB2447156A; GB2447156B; CN111781019A; NO20041135L; EP1427912A4; NO341415B1; US7467540B2; US8966969B2; WO0058604A1; WO2007041660A1; US7621325B2; US7246664B2; US6631763B1; US8991233B2

Designated contracting state (EPC)  
BE DE FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0092975 A1 19831102**; **EP 0092975 B1 19870114**; DE 3369089 D1 19870219; DK 178383 A 19831028; DK 178383 D0 19830422; FI 831441 A0 19830427; FI 831441 L 19831028; JP S593239 A 19840109; NO 831468 L 19831028

DOCDB simple family (application)  
**EP 83302261 A 19830421**; DE 3369089 T 19830421; DK 178383 A 19830422; FI 831441 A 19830427; JP 7485583 A 19830427; NO 831468 A 19830426