Title (en)

SAMPLE RECEIVING AND MIXING DEVICE

Publication

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Application

EP 83302261 A 19830421

Priority

GB 8212184 A 19820427

Abstract (en)

[origin: EP0092975A1] 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 kprior to degasification. The device has no external dynamic seals susceptible to leakage.

IPC 1-7

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IPC 8 full level

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Cited by

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

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