

Title (en)  
ANTI-SEDIMENTATION PROCESS

Title (de)  
VERFAHREN ZUR VERMEIDUNG VON SEDIMENTATIONEN

Title (fr)  
PROCEDE PERMETTANT D'EVITER LA PRECIPITATION DE SEDIMENTS

Publication  
**EP 0715542 A1 19960612 (DE)**

Application  
**EP 94926197 A 19940816**

Priority  

- CH 246993 A 19930817
- CH 246893 A 19930817
- EP 9402717 W 19940816

Abstract (en)  
[origin: WO9505238A1] A process and device are disclosed for preventing sediments from precipitating from mixtures of for example crude oil (4), refinery products and petrochemicals, which otherwise settle mainly at the bottom of cistern installations (T). Sediments have a precursor in the form of a thickening precipitation zone (4, 2). The precipitation of sediments is prevented by disturbing the formation of the precipitation zone (4, 2). This disturbance takes the form of global disturbance patterns (S) with local disturbance spots (L) and is applied according to the disturbance pattern (S) in a disturbance zone by means of disturbance devices (V) with disturbing means. The disturbance is hydrodynamically or mechanically applied by nozzles arranged in the disturbance zones through which crude oil flows out or by strings that may be made to vibrate as disturbing means (8, 12) excited by exciting elements (5) through pulling and pushing units (6) in the disturbance devices. The strings vibrate with fundamental and partial waves and deflect the components of the mixtures depending on the amplitude of said sonic waves.

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IPC 8 full level  
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CPC (source: EP)  
**B01F 31/44** (2022.01); **B01F 33/403** (2022.01); **B08B 17/00** (2013.01)

Citation (search report)  
See references of WO 9505238A1

Citation (examination)  

- CH-A- 161 777
- CH-A- 289 372
- DE-A- 3 434 669
- DE-A- 3 512 548
- US-A- 3 081 239
- US-A- 3 466 016

Cited by  
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**WO 9505238 A1 19950223**; AT E163569 T1 19980315; AU 683929 B2 19971127; AU 7613494 A 19950314; DE 59405403 D1 19980409; DK 0715542 T3 19980928; EP 0715542 A1 19960612; EP 0715542 B1 19980304; ES 2115970 T3 19980701

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