

Title (en)

Process for regenerating synthetic diaphragms

Title (de)

Verfahren zur Regenerierung von Kunststoffdiaphragmen

Title (fr)

Procédé de régénération de diaphragmes en matière synthétiques

Publication

EP 0745701 B1 19981209 (DE)

Application

EP 96108246 A 19960523

Priority

DE 19519921 A 19950531

Abstract (en)

[origin: EP0745701A1] Regenerating plastic diaphragms comprises mixing a soln. of mineral acid (I) with a corrosion inhibitor (II) and passing the mixt. through the diaphragm for 0.1-84 (pref. 1-72, esp. pref. 2-24) hrs. at 0-100 (pref. 40-80, esp. pref. 50-70) degrees C. Also claimed are plastic diaphragms obtd. by this process. (I) consists at least partly, pref. entirely, of HCl in a concn. of 0.3-20 (pref. 2-10) wt%, pref. contg. NaCl in a concn. up to the satn. pt., pref. up to 250 g/l. Pref. soln. (I) also contains 500-5000 ppm Cu and/or Fe cpds., esp. Cu(II) and/or Fe(III) salts. The mixt. contains 0.005-5 (pref. 0.05-0.5) wt% (II). Component (II) contains alkynol(s), esp. an alkyne-diol, pref. mixed with 1-25 wt% amine, esp. hexamethylenetetramine (HMTA), ethylhexylamine or diethylhexylamine, and/or 0.1-3 wt% surfactant, esp. a quat. ammonium salt.

IPC 1-7

C25B 15/00; **C25B 13/00**

IPC 8 full level

C25B 13/00 (2006.01); **C25B 15/00** (2006.01)

CPC (source: EP US)

C25B 13/00 (2013.01 - EP US); **C25B 15/00** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0745701 A1 19961204; **EP 0745701 B1 19981209**; CN 1077609 C 20020109; CN 1147566 A 19970416; DE 19519921 A1 19961205; DE 59600938 D1 19990121; NO 962216 D0 19960530; NO 962216 L 19961202; PL 314547 A1 19961209; US 5755951 A 19980526

DOCDB simple family (application)

EP 96108246 A 19960523; CN 96110009 A 19960513; DE 19519921 A 19950531; DE 59600938 T 19960523; NO 962216 A 19960530; PL 31454796 A 19960530; US 87625097 A 19970616