

Title (en)  
Variable level suction device

Title (de)  
Variabler Pegelabsaugvorrichtung

Title (fr)  
Système d'aspiration à niveau variable

Publication  
**EP 0730094 B1 20000419 (EN)**

Application  
**EP 96301181 A 19960222**

Priority  
US 39847995 A 19950303

Abstract (en)  
[origin: EP0730094A1] A variable level suction device used in conjunction with a transfer pump which transfers high-level radioactive liquid waste from a waste tank. The variable level suction device comprises an hydraulic housing and a telescoping pipe assembly comprising several pipe sections and mounted alongside the support column of the transfer pump. The telescoping innermost pipe section has a suction inlet, and the outermost telescoping pipe section is welded to the hydraulic housing which encloses an impeller assembly of either a submersible canned motor transfer pump or a lineshaft transfer pump. Suction ports in the hydraulic housing are located adjacent to the impeller assembly. Selective operation of the suction ports and the telescoping pipe sections allows the liquid waste to be suctioned either from the bottom of the waste tank or from a selected level in the waste tank between a free surface and a level near the suction inlet of the innermost pipe section of the telescoping pipe assembly. <IMAGE>

IPC 1-7  
**F04D 7/08**; F04D 29/40; F04D 13/08

IPC 8 full level  
**F04D 7/08** (2006.01); **F04D 13/08** (2006.01); **F04D 13/10** (2006.01); **F04D 29/40** (2006.01)

CPC (source: EP)  
**F04D 7/08** (2013.01); **F04D 13/10** (2013.01); **F04D 29/406** (2013.01)

Cited by  
EP3059448A1; EP1568888A1; CN105736401A; GB2449845A; WO2012130225A3; US9587638B2; US10808707B2; US11448224B2

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