

Title (en)  
CLEANING SYSTEM FOR CLEANING THE INSIDE OF FLUID CONDUCTING TUBING AND ASSOCIATED APPARATUS

Title (de)  
VERFAHREN ZUR INNENREINIGUNG VON FLUIDFÜHRENDEN RÖHREN UND DAZUGEHÖRIGE VORRICHTUNG

Title (fr)  
SYSTEME DE NETTOYAGE DE L'INTERIEUR DE TUYAUX CONDUISANT UN FLUIDE ET APPAREIL ASSOCIE

Publication  
**EP 0728286 A4 19980225 (EN)**

Application  
**EP 95902659 A 19941118**

Priority  

- US 9413469 W 19941118
- US 15406293 A 19931118
- US 25888794 A 19940613
- US 25888894 A 19940613

Abstract (en)  
[origin: WO9514205A1] A cleaning system for cleaning the inside of fluid conducting tubing (14). The cleaning system includes a plurality of balls (26) entrained by a fluid flowing through the system, separation apparatus (28) for separating the balls (26) from the fluid downstream of the tubing (14), accumulator apparatus (60) for accumulating the balls downstream of the separation apparatus (28), storage apparatus (62) for storing a volume of injection fluid and a compressor (64) for selectively providing a supply of compressed air into the storage apparatus (62) such that a portion of the volume of injection fluid passes through the accumulator apparatus (60) for entraining some of the balls (26) therewith for injection upstream of the tubing (14).

IPC 1-7  
**F28G 1/12**

IPC 8 full level  
**F28G 1/12** (2006.01)

CPC (source: EP KR)  
**F28G 1/12** (2013.01 - EP KR)

Citation (search report)  

- [XY] US 3882931 A 19750513 - KUMAGAI YOSHIO
- [XA] EP 0148509 A1 19850717 - GEA ENERGIESYSTEMTECHNIK GMBH [DE]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 010, no. 349 (M - 538) 26 November 1986 (1986-11-26)
- See references of WO 9514205A1

Designated contracting state (EPC)  
CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)  
**WO 9514205 A1 19950526**; AU 1184795 A 19950606; AU 692203 B2 19980604; BR 9408567 A 19970805; CA 2174555 A1 19950526; CA 2174555 C 20080520; CN 1099581 C 20030122; CN 1135257 A 19961106; CN 1154834 C 20040623; CN 1312458 A 20010912; CZ 143996 A3 19970212; CZ 289247 B6 20011212; DE 69428207 D1 20011011; DE 69428207 T2 20020613; EP 0728286 A1 19960828; EP 0728286 A4 19980225; EP 0728286 B1 20010905; ES 2163491 T3 20020201; HU 221834 B1 20030128; HU 9601332 D0 19960729; HU T75003 A 19970328; IL 111666 A0 19950124; IL 111666 A 19961031; JP 3306829 B2 20020724; JP H09509244 A 19970916; KR 100346769 B1 20021108; KR 960706061 A 19961108; PL 177797 B1 20000131; PL 314467 A1 19960916; RU 2137999 C1 19990920

DOCDB simple family (application)  
**US 9413469 W 19941118**; AU 1184795 A 19941118; BR 9408567 A 19941118; CA 2174555 A 19941118; CN 00133803 A 20001106; CN 94194159 A 19941118; CZ 143996 A 19941118; DE 69428207 T 19941118; EP 95902659 A 19941118; ES 95902659 T 19941118; HU 9601332 A 19941118; IL 11166694 A 19941117; JP 51466795 A 19941118; KR 19960702722 A 19960517; PL 31446794 A 19941118; RU 96113140 A 19941118