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| <b>(51) International Patent Classification <sup>6</sup>:</b><br><b>B01J 47/02, 49/02, 8/04, B01D 24/12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 96/28252</b><br><b>(43) International Publication Date:</b> 19 September 1996 (19.09.96)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>(21) International Application Number:</b> PCT/GB96/00583<br><b>(22) International Filing Date:</b> 11 March 1996 (11.03.96)<br><b>(30) Priority Data:</b><br>9505091.0/ 14 March 1995 (14.03.95) GB<br><b>(71) Applicant (for all designated States except US):</b> USF LIMITED<br>[GB/GB]: Harforde Court, John Tate Road, Hertford SG13 7NW (GB).<br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> STOLBERG, Errol<br>[GB/GB]: 75 Chinnor Crescent, Greenford, Middlesex UB6 9NY (GB). FARRAR, John [GB/GB]: 15A Oaktree Avenue, Marlow, Buckinghamshire SL7 3EN (GB).<br><b>(74) Agent:</b> GILL JENNINGS & EVERY; Broadgate House, 7 Eldon Street, London EC2M 7LH (GB). |           | <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.<br/>         Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |
| <b>(54) Title:</b> APPARATUS FOR PURIFICATION OF LIQUIDS<br><b>(57) Abstract</b><br><p>A movable separator includes a resilient container (2, 30) containing particles (3, 38) such as ball bearings. The separator is provided in a column (1, 27, 28) between two beds of particulate material (4, 5, 9, 10, 13, 14, 19, 20) for example of ion exchange resin to prevent mixing of the particulate material (4, 5, 9, 10, 13, 14, 19, 20). The separator contacts the side wall of the column (1, 27, 28), against which it can slide.</p>                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |