

Title (en)

Method and device for cleaning pneumatic conveyor lines using a bypass pig

Title (de)

Verfahren und Vorrichtung zur Reinigung von pneumatischen Förderleitungen mit einem Bypass-Molch

Title (fr)

Procédé et dispositif pour le nettoyage de conduites de transport pneumatique en utilisant un racleur à by-pass

Publication

EP 1306141 A3 20050921 (DE)

Application

EP 02020024 A 20020906

Priority

DE 10151553 A 20011023

Abstract (en)

[origin: EP1306141A2] The cleaning method uses a pneumatically-driven pig (1) displaced longitudinally along the feed line (2) and provided with peripheral cleaning tools (18), e.g. brushes, contacting the inside wall of the feed line, with the pressurised air discharged via openings (14,15) spaced in the longitudinal direction of the pig, for removal of solid material from the feed line wall. The ratio of the pig feed velocity to the feed air velocity is less than 1, the feed air velocity having an angular component. <??>An Independent claim for a device for cleaning a pneumatic feed line is also included.

IPC 1-7

B08B 9/055; F16L 55/28

IPC 8 full level

B08B 9/04 (2006.01); **B08B 9/055** (2006.01)

CPC (source: EP)

B08B 9/0551 (2013.01); **B08B 9/0552** (2013.01); **B08B 9/0553** (2013.01); **B08B 9/0557** (2013.01)

Citation (search report)

- [X] DE 19632332 A1 19970320 - SCHACHT WOLFGANG DR ING [DE]
- [X] DE 4111452 A1 19921015 - BUEHLER GMBH [DE]
- [X] EP 0745436 A1 19961204 - SHELL INT RESEARCH [NL]
- [X] EP 0823293 A2 19980211 - IST MOLCHTECHNIK GMBH [DE]
- [X] US 4406030 A 19830927 - PLATTS DOUGLAS J [GB]
- [X] WU H L ET AL: "BY-PASS PIG PASSES TEST FOR TWO-PHASE PIPELINES", OIL AND GAS JOURNAL, PETROLEUM PUBLISHING CO. TULSA, OK, US, vol. 94, no. 42, 14 October 1996 (1996-10-14), pages 73 - 74,76, XP000684447, ISSN: 0030-1388

Cited by

GB2476039A; GB2476039B; CN102859249A; AT514177A1; AT514177B1; GB2465352A; GB2465352B; WO2011070321A3; WO2010055289A1; WO2019161493A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1306141 A2 20030502; **EP 1306141 A3 20050921**; DE 10151553 A1 20030430

DOCDB simple family (application)

EP 02020024 A 20020906; DE 10151553 A 20011023