

Title (en)

GAS LIFT FLOW CONTROL DEVICE

Title (de)

DURCHFLUSS-KONTROLLVORRICHTUNG FÜR LUFTHEBEVERFAHREN

Title (fr)

DISPOSITIF DE REGULATION DE DEBIT POUR EQUIPEMENT D'EXTRACTION A L'AIR

Publication

EP 0752049 A1 19970108 (EN)

Application

EP 95930623 A 19950904

Priority

- GB 9502079 W 19950904
- US 30166194 A 19940907
- US 43403795 A 19950502

Abstract (en)

[origin: WO9607813A1] A gas flow control device (60) for injecting gas into a downhole production string for recovering pressure and reducing frictional losses, so that critical flow can be reached at lower pressure drops and higher production pressure, includes a housing, inlet ports (54), nose end (61) with check valve (65), and outlet ports (64), and a nozzle (34) having first and second ends, and a flow path therebetween, and a Venturi having first and second ends, and a flow path therebetween. The first end of the Venturi portion is disposed adjacent to the second end of the nozzle. The Venturi flow path is coaxially aligned with the nozzle flow path to provide a continuous flow path therethrough. Such a flow control device that has a gas flow rate performance that is independent of the tubing pressure, even when the tubing pressure is as high as 80 % to 93 % of the casing pressure, can be used to increase the production rate, improve the lift efficiency, and eliminate or suppress instability in continuous-flow gas lift wells.

IPC 1-7

E21B 43/12

IPC 8 full level

E21B 43/12 (2006.01)

CPC (source: EP US)

E21B 43/123 (2013.01 - EP US)

Citation (search report)

See references of WO 9607813A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9607813 A1 19960314; AT E197629 T1 20001215; AU 3394295 A 19960327; AU 708875 B2 19990812; AU 708875 C 20050324; BR 9506382 A 19970916; CA 2175928 A1 19960314; CA 2175928 C 20090707; DE 69519425 D1 20001221; EP 0752049 A1 19970108; EP 0752049 B1 20001115; MX 9601696 A 19970329; MY 115179 A 20030430; NO 311449 B1 20011126; NO 961823 D0 19960506; NO 961823 L 19960704; NZ 292221 A 19971024; OA 10580 A 20020619

DOCDB simple family (application)

GB 9502079 W 19950904; AT 95930623 T 19950904; AU 3394295 A 19950904; BR 9506382 A 19950904; CA 2175928 A 19950904; DE 69519425 T 19950904; EP 95930623 A 19950904; MX 9601696 A 19950904; MY PI9502532 A 19950825; NO 961823 A 19960506; NZ 29222195 A 19950904; OA 60825 A 19960506