Title (en)

ULTRA-HIGH PURITY BOURDON TUBE PRESSURE GAUGE SYSTEM

Title (de)

ULTRAHOCHREINES DRUCKWANDLERSYSTEM MIT EINEN BOURDONROHR

Title (fr)

SYSTEME ULTRA-PUR DE MANOMETRE A TUBE DE BOURDON

Publication

EP 1012551 A4 20040428 (EN)

Application

EP 98936830 A 19980710

Priority

- US 9814405 W 19980710
- US 5227197 P 19970711
- US 2273198 A 19980212

Abstract (en)

[origin: WO9902955A1] A reduced volume socket body (14) and a reduced volume tube (16) are used in a pressure gauge system in semiconductor fabrication process equipment. The socket body (14) includes an outlet and the tube (16) has an end (16a) connected to the outlet. The outlet is a shaped, weld prep (28) formed on the socket body (14) having an inner surface (22a). A continuous seat (32) is formed on the outlet and includes a seat thickness (S). The tube (16) has an inner wall (38) and an outer wall (36) defining a wall thickness (W) which is substantially the same as the seat thickness (S). The end (16a) of the tube (16) is engaged with the seat (32) so that the inner wall (38) of the tube and the inner surface (22a) of the outlet are substantially aligned to form a crevice free tube-to-socket connection.

IPC 1-7

G01L 7/04; G01L 19/06; H01L 21/00; B23K 33/00

IPC 8 full level

G01L 7/04 (2006.01)

CPC (source: EP)

G01L 7/041 (2013.01)

Citation (search report)

- [X] US 5591918 A 19970107 - FERGUSON WALTER J [US]
- [A] GB 1172593 A 19691203 - FOSTER WHEELER CORP [US]
- [A] US 4943001 A 19900724 - MEYER JOHN J [US]
- [A] US 4221263 A 19800909 - MEYER JOHN J
- [A] US 4939338 A 19900703 - BREGY LOUIS F [US], et al
- [A] US 4543833 A 19851001 - FERGUSON WALTER J [US]
- [A] US 3975967 A 19760824 - CONTI JACK
- See references of WO 9902955A1

Designated contracting state (EPC)

DE FR GB IE

DOCDB simple family (publication)

WO 9902955 A1 19990121; AU 8569298 A 19990208; EP 1012551 A1 20000628; EP 1012551 A4 20040428

DOCDB simple family (application)

US 9814405 W 19980710; AU 8569298 A 19980710; EP 98936830 A 19980710