

Title (en)
Flow nozzle assembly

Title (de)
Düsenanordnung

Title (fr)
Dispositif de buse

Publication
EP 1609946 A3 20060301 (EN)

Application
EP 05012494 A 20050610

Priority
US 87624904 A 20040623

Abstract (en)
[origin: EP1609946A2] The present invention generally provides apparatuses and methods for an improved shunt nozzle which is part of an alternative pathway for a slurry to by-pass an obstruction such as a sand bridge during gravel packing. In one embodiment, the nozzle has a hardened insert that lines a surface of a hole in the shunt and seats on a surface of a wall proximate the hole, thereby restraining movement of the insert relative to the shunt for welding an outer jacket to the shunt.

IPC 8 full level
E21B 43/08 (2006.01); **E21B 41/00** (2006.01)

CPC (source: EP)
E21B 41/0078 (2013.01); **E21B 43/08** (2013.01)

Citation (search report)

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