

Title (en)
Flow nozzle assembly

Title (de)
Düsenanordnung

Title (fr)
Dispositif de buse

Publication
EP 1609946 B1 20080220 (EN)

Application
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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.

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