

Title (en)  
Flow nozzle assembly

Title (de)  
Düsenanordnung

Title (fr)  
Dispositif de buse

Publication  
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Application  
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Abstract (en)  
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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