

Title (en)
LIQUID/ABRASIVE JET CUTTING APPARATUS

Publication
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Application
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Priority
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Abstract (en)
[origin: EP0322485A2] The Apparatus confines abrasive slurry in one chamber (26b) of a dual-chamber reservoir (26) having a piston (28) sealing between the two chambers. Pump-pressured water is conducted to the other chamber (26a)(a) to displace the piston (28) and, consequently, (b) to pressure the slurry. A fluid line (34) conveys the pressured slurry to a central, orifice-terminated, channel formed in the axial center of a nozzle (22), and another fluid line (20) conveys pump-pressured water to an annular conduit, formed in said nozzle (22), which circumscribes the central channel. The annular conduit also terminates in an orifice. Both orifices are axially aligned, the latter one being of greater diameter than the former. Upon emerging from the aforesaid conduit and channel, the water and slurry accelerate together in a convergent chamber of the nozzle to discharge via the larger-diameter, final exit orifice.

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IPC 8 full level
B24C 1/04 (2006.01); **B24C 5/04** (2006.01); **B24C 7/00** (2006.01)

CPC (source: EP)
B24C 1/045 (2013.01); **B24C 5/04** (2013.01); **B24C 7/0007** (2013.01)

Citation (search report)
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