

Title (en)  
HYDROJET CUTTING HEAD COMPRISING FIVE INFINITELY ROTATING AXES

Title (de)  
WASSERSTRAHLSCHNEIDKOPF MIT FÜNF STUFENLOS DREHBAREN ACHSEN

Title (fr)  
TÊTE DE COUPE PAR HYDROJET À CINQ AXES DE ROTATION INFINIE

Publication  
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Application  
**EP 09839918 A 20090213**

Priority  
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Abstract (en)  
[origin: EP2397286A2] The invention relates to a hydrojet cutting head comprising five infinitely rotating axes, for cutting three-dimensional planes of rigid materials (metals, stone, ceramic, wood, etc.) and soft materials (rubber, food, foam, etc.) up to 360 sexagesimal degrees and with a fixed and constant focal point, in the form of a spinning top. Said head comprises a rotating base (1), a nozzle support (2), and a head base (3) which are interconnected by a rotary joint (12). A pressurised water line (4) and (5) ending in a water inflow receiver (6), and an abrasive product line (7, 8) leading towards an abrasive receiver (9) are inserted into said head base (3), where the water-abrasive combination is formed in the nozzle (10). Said water-abrasive mixture is guided through a concentrator (11) out of which blasts the fluid jet for cutting the piece.

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 2010092196A2

Cited by  
CN111823141A; ITUA20161442A1; CN106272097A; EP2679402A1; CN104245349A; US2021354331A1; EP3409420A1; AU2018200430B2; US10573403B2; US10543652B2; WO2014000879A1; US10730163B2; US10046904B2; US10046903B2; US10099443B1

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