

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

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Priority

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Abstract (en)

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.

IPC 8 full level

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**B26F 3/004** (2013.01 - EP ES)

Cited by

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US10573403B2; US10730163B2; US10543652B2; WO2014000879A1; US10046904B2; US10046903B2; US10099443B1

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