

Title (en)

DEVICE FOR COOLING THE PICKS OF THE CUTTING TOOLS OF A CUTTING MACHINE AND THE EXCAVATION FACE AND FOR PREVENTING THE FORMATION OF DUST

Publication

EP 0010534 B1 19820721 (DE)

Application

EP 79890023 A 19790730

Priority

AT 752278 A 19781019

Abstract (en)

[origin: EP0010534A1] 1. Arrangement for cooling the cutter teeth of the cutting tool of a cutting machine and the breast and for precipitating dust, in particular of the cutting tool formed by at least one rotating cutter head (28) on the movable cutting arm of a cutting machine, wherein the cutter teeth are only temporarily in engagement with the rock to be cut, and of the breast, by means of nozzles (22, 32) for the coolant disposed on the cutting tool and associated with individual cutter teeth, control means being provided that permit the supply of coolant to the nozzles only during the period of time at which the cutter teeth associated with the respective nozzles are in engagement with the rock, characterized in that as coolant water without admixture of air is used in a manner known per se and that the cutter tooth shank (4, 22) of the cutter tooth is axially slidably mounted in the tooth holder (2, 34) and resiliently supported against the cutting pressure, the supply of coolant being controlled by means of a valve (13, 31) acted upon through the displacement motion of the cutter tooth and housed in the tooth holder (2, 34).

IPC 1-7

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IPC 8 full level

E21D 9/10 (2006.01); **E21B 19/24** (2006.01); **E21C 35/187** (2006.01); **E21C 35/22** (2006.01)

CPC (source: EP)

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Citation (examination)

- SU 619642 A1 19780815 - INST GORNOGO DELA IMENI SKOCHI [SU]
- SU 621873 A1 19780830 - TSNI PK I PROKHODCHESKIKH MASH [SU]

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EP 79890023 A 19790730; AT 752278 A 19781019; AU 5018179 A 19790822; CA 332967 A 19790801; CS 698779 A 19791016; DE 2963366 T 19790730; ES 485476 A 19791018; HU VO000192 A 19790822; IN 810CA1979 A 19790804; JP 10271879 A 19790809; MA 18766 A 19790821; MX 17969379 A 19791018; NZ 19135979 A 19790820; PL 21903579 A 19791018; RO 9895479 A 19791016; SU 2827301 A 19791005; YU 195179 A 19790810; ZA 793915 A 19790731