

Title (en)  
DEVICE FOR SPRAYING A COOLING LIQUID OUT OF NOZZLES OF A COAL CUTTER DRUM

Publication  
**EP 0188188 B1 19880921 (DE)**

Application  
**EP 85890310 A 19851213**

Priority  
AT 403084 A 19841219

Abstract (en)  
[origin: EP0188188A1] 1. Device for the spraying of coolant from nozzles (10, 16) of a cutter head, which is fitted with bits (7) and is mounted rotatably on a cutter jib, in which the coolant can be fed, via channels inside the cutter head, to the nozzles (10, 16), in particular with the connection in between of valves operated by the bits (7) and/or a sector control, characterized - in that the space ahead of the nozzle (10, 16) is connected via a choke (17, 20) to the coolant feed line (1), - in that the nozzle (10, 16) is arranged in a component bounding the space downstream of the choke (17, 20), - in that at least one sensor (2), for recording of the flow rate and/or the pressure (P1), is connected in the coolant feed line (1), - in cases where use is made of a pressure sensor for the pressure (P1), least one further sensor (21) recording the pressure (P2) in the space ahead of the nozzle and the pressures (P1, P2) being compared by means of an evaluation circuit (3), - and in that a signal is triggered if the pressure (P2) approaches the pressure (P1) or if there is a predetermined rise in the flow rate at the sensor (2).

IPC 1-7  
**E21C 35/22**

IPC 8 full level  
**E21C 35/22** (2006.01); **E21C 35/18** (2006.01); **E21C 35/187** (2006.01)

CPC (source: EP)  
**E21C 35/18** (2013.01); **E21C 35/187** (2013.01)

Cited by  
AT386252B; EP0259620A1; DE4138874A1; AU2007332121B2; WO2008070884A1

Designated contracting state (EPC)  
BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0188188 A1 19860723; EP 0188188 B1 19880921**; AT 381985 B 19861229; AT A403084 A 19860515; AU 5088585 A 19860626; DE 3565150 D1 19881027; ES 549211 A0 19861001; ES 8700382 A1 19861001; HU 194360 B 19880128; HU T41870 A 19870528; IN 162350 B 19880507; JP S61151394 A 19860710; MA 20599 A1 19860701; NZ 214455 A 19870831; PL 256285 A1 19860923; YU 193785 A 19871031; ZA 859335 B 19860827

DOCDB simple family (application)  
**EP 85890310 A 19851213**; AT 403084 A 19841219; AU 5088585 A 19851206; DE 3565150 T 19851213; ES 549211 A 19851122; HU 442785 A 19851120; IN 885CA1985 A 19851209; JP 28685085 A 19851219; MA 20825 A 19851218; NZ 21445585 A 19851205; PL 25628585 A 19851115; YU 193785 A 19851212; ZA 859335 A 19851205