

Title (en)

CUTTING DRUM FOR A TUNNELLING MACHINE AND METHOD OF MAKING IT

Publication

EP 0108046 B1 19860212 (DE)

Application

EP 83890139 A 19830831

Priority

AT 331082 A 19820903

Abstract (en)

[origin: ES8406626A1] For the supply of water to nozzles on the circumference of a cutting head there are, within a cutting head (1) composed of individual discs (2), provided bores (14 respectively 16) extending in direction to the axis of rotation of the cutting head (1). The individual annular discs (2) are connected one with the other by welding, the weld beads extending over a radial area (a) of the cutting head which is greater than the diameter (b) of the bores (14 respectively 16). The bores (14 respectively 16) extend through the weld beads (19) (FIG. 2).

IPC 1-7

E21D 9/10; E21C 35/22

IPC 8 full level

E21D 9/10 (2006.01); **E21C 27/24** (2006.01); **E21C 35/20** (2006.01); **E21C 35/23** (2006.01)

CPC (source: EP US)

E21C 35/23 (2013.01 - EP US)

Citation (examination)

AT 359453 B 19801110 - VOEST ALPINE AG

Designated contracting state (EPC)

BE CH DE FR GB LI SE

DOCDB simple family (publication)

EP 0108046 A1 19840509; EP 0108046 B1 19860212; AT 375151 B 19840710; AT A331082 A 19831115; AU 1760183 A 19840308; AU 563154 B2 19870702; CA 1198456 A 19851224; DE 3362124 D1 19860327; ES 525334 A0 19840801; ES 528955 A0 19841216; ES 8406626 A1 19840801; ES 8502201 A1 19841216; HU 187094 B 19851128; IN 158887 B 19870214; JP S5965200 A 19840413; MA 19889 A1 19840401; NZ 205261 A 19860314; PL 141542 B1 19870831; PL 243561 A1 19840507; RO 88127 A 19851130; RO 88127 B 19851031; SU 1322987 A3 19870707; US 4572583 A 19860225; YU 179483 A 19880229; ZA 835851 B 19840425

DOCDB simple family (application)

EP 83890139 A 19830831; AT 331082 A 19820903; AU 1760183 A 19830804; CA 435167 A 19830823; DE 3362124 T 19830831; ES 525334 A 19830902; ES 528955 A 19840118; HU 307683 A 19830902; IN 970CA1983 A 19830803; JP 16058883 A 19830902; MA 20112 A 19830902; NZ 20526183 A 19830815; PL 24356183 A 19830830; RO 11197683 A 19830901; SU 3633948 A 19830819; US 52878883 A 19830902; YU 179483 A 19830901; ZA 835851 A 19830809