

Title (en)
DRIVING MECHANISM FOR ROTATABLY OPERATING BORING MACHINES

Publication
EP 0063345 B1 19860528 (DE)

Application
EP 82103085 A 19820410

Priority
DE 3115175 A 19810415

Abstract (en)
[origin: EP0063345A2] 1. An electric drive device for the drill head or a similar part, describing a rotating working movement, of a heading machine for tunnels, galleries or the like, namely a tunnel drilling machine, the rotational speed of the electrical drill head drive (a motor or, in particular, a plurality of electric motors mechanically coupled to the parallel operation) being continuously adjustable, characterized by the following features : the drill head drive comprises at least one three-phase asynchronous motor (5), in order to supply the motor (5) a converter is provided which is associated with the heading machine (1) and has a regulating device and by means of which the drill head drive is to be supplied with current of a variable frequency, the converter is constructed with a highly protective system in accordance with the conditions of use, an intermediate circuit choke (20) provided for the converting operation is spatially separated per se from a switch cabinet (17) containing the converter, a heat exchanger (18) constructed as a water/air cooler is provided for drawing heat away from at least part of the device, a change-over device (21) is provided, by means of which the drill head drive (5) can be changed over from converter operation to direct mains supply and vice versa.

IPC 1-7
E21D 9/10

IPC 8 full level
E21D 9/10 (2006.01)

CPC (source: EP)
E21D 9/1086 (2013.01)

Cited by
CN113090270A; EP1941598A4; EP2822151A1; WO2007040534A1

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EP 0063345 A2 19821027; EP 0063345 A3 19840328; EP 0063345 B1 19860528; AT E20118 T1 19860615; AU 543810 B2 19850502; AU 8257882 A 19821021; DE 3115175 A1 19821028; DE 3115175 C2 19830105; DE 3271330 D1 19860703; JP S57178098 A 19821102; ZA 822527 B 19830223

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