

Title (en)
ROCK ANCHORING BOLT

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Application
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• DE 3724165 A 19870722

Abstract (en)
[origin: WO8802058A1] A rock anchor consists of a body member formed as a drilling-rod (1), which at one end carries a drill-head (2) and has externally over its whole length a coarse thread, for example an approximately round thread (3). The drill-head (2) is welded to the drilling-rod (1). The drilling-rod (1) has only at its forward region, that is adjacent the drill-head (2) peripheral bores (6), whereby the aforesaid forward region, from the drill-head (2), extend over a length of at most 20 cm. The bores (6) extend as an angle to the axis of the drilling-rod (1), namely, from inside to outside in a direction from the drill-head (2). This rock anchor serves simultaneously for making a drilling, whereby the tubular body member serves for the supply of the hydraulic fluid, which passes into the bore-hole via a hydraulic bore (5) in the drill-head (2) and the aforesaid peripheral bores (6) and passes back to the outside of the drilling-rod (1) with the drilling fines produced. After completion of the drilling a mortar suspension under pressure is injected via the aforementioned body member, which likewise flows via the bores (6), so that the borehole is gradually filled with the mortar base of the borehole. The rock anchor according to the invention has considerable structural simplicity and likewise is simple to handle, so that broken rock can readily be stabilised by means of it.

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Cited by
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