

Title (en)

Method to substitute the supporting liquid by compressed air in an hydro-shield

Title (de)

Verfahren zum Ersetzen von Stützflüssigkeit durch Druckluft in ein Hydroschild

Title (fr)

Procédé de substitution de liquide de soutien par air comprimé dans une machine de creusement hydraulique à bouclier

Publication

EP 0835984 A3 19980819 (DE)

Application

EP 97116218 A 19970918

Priority

DE 19642093 A 19961012

Abstract (en)

[origin: DE19642093C1] The support fluid is evacuated in an upper cross-sectional area of the work face with simultaneous replacement with compressed air. Then in the upper cross-sectional area a support material is applied to the work face and finally also in the lower cross-sectional area the support surface is replaced by compressed air. A work chamber (4) is formed in a shield cover (1) by a dip wall (2) and a pressure wall (3). A closed cutting wheel (5) is operated in the work chamber. The work chamber is normally filled with fluid supporting the work face, the pressure of which is controlled by a compressed air cushion (7) between the two walls.

IPC 1-7

E21D 9/06

IPC 8 full level

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CPC (source: EP)

E21D 9/06 (2013.01); **E21D 9/065** (2016.01); **E21D 9/0879** (2016.01)

Citation (search report)

- [DA] DE 4225121 A1 19940203 - WESTFALIA BECORIT IND TECH [DE]
- [DA] DE 4409049 C1 19950330 - HOCHTIEF AG HOCH TIEFBAUTEN [DE]
- [A] DE 4118907 C1 19920611
- [A] GB 1419869 A 19751231 - WAYSS FREYTAG AG
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 077 (M - 1367) 16 February 1993 (1993-02-16)

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