

Title (en)

Wellbore electrical heater

Title (de)

Elektrisches Bohrlochheizgerät

Title (fr)

Appareil de chauffage de fond de puits

Publication

EP 0940558 B1 20050119 (EN)

Application

EP 99200644 A 19990305

Priority

- US 7702298 P 19980306
- US 7716098 P 19980306

Abstract (en)

[origin: EP0940558A1] A heater is disclosed which comprises an electrical insulating material surrounding an annular heating element configuration; wherein there is no casing surrounding an annular heating element configuration. <IMAGE>

IPC 1-7

E21B 36/04

IPC 8 full level

E21B 36/04 (2006.01)

CPC (source: EP)

E21B 36/04 (2013.01)

Cited by

US6959761B2; GB2605062A; WO0181713A1; WO0181715A3; WO03036034A1; WO2021146684A1

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EP 0940558 A1 19990908; EP 0940558 B1 20050119; AU 1857399 A 19990923; AU 746983 B2 20020509; CA 2264354 A1 19990906; CA 2264354 C 20071106; CN 1232718 C 20051221; CN 1236858 A 19991201; DE 69923247 D1 20050224; DE 69923247 T2 20060112; JO 2077 B1 20000521; MA 24902 A1 20000401

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EP 99200644 A 19990305; AU 1857399 A 19990303; CA 2264354 A 19990304; CN 99102078 A 19990305; DE 69923247 T 19990305; JO P19992077 A 19990304; MA 25478 A 19990301