

Title (en)

Method and apparatus for leaching out cavities in salt formations

Title (de)

Verfahren und Vorrichtung zum Aussolen von Kavernen in Salzformationen

Title (fr)

Procédé et dispositif pour excaver des formations salines par dissolution

Publication

**EP 0629769 B1 19981118 (DE)**

Application

**EP 94109174 A 19940615**

Priority

DE 4319941 A 19930616

Abstract (en)

[origin: EP0629769A2] Method and apparatus for leaching out salt cavities for the storage of natural gas with the use of natural gas as blanket medium, with a pipe string (1) cemented in the overburden (11) and in the salt dome (13) down to the cavity roof (15), a gas-delivery string (3) put into the pipe string (1) in a sealed-off manner and likewise extending down to the cavity roof, a protective liquid filling the annular space between the pipe strings, an outer flushing-pipe string (6) put into the gas-delivery string, variable in length and extending down below the blanket level, and a inner flushing-pipe string (8) located underneath, put into the outer flushing-pipe string and variable in length. <IMAGE>

IPC 1-7

**E21B 43/28**

IPC 8 full level

**E21B 43/28** (2006.01); **E21C 41/20** (2006.01)

CPC (source: EP)

**E21B 43/28** (2013.01)

Citation (examination)

- K. H. LUX ET AL.: "20 Jahre Erfahrung mit Salzkavernen", ERDÖL, ERDGAS, KOHLE, vol. 104, no. 2, HAMBURG/WIEN, pages 75 - 78
- DIP.-ING. GOTTHARD FÜRER: "Behälterlose Untertagespeicherung von Gas", BERGBAU, vol. 34, no. 9, pages 416 - 426
- R. ARMSTRONG: "Developing Cavern Storage in Western Canada", 23 September 1986, SOLUTION MINING RESEARCH INSTITUTE, WOODSTOCK, ILLINOIS, -

Cited by

WO2018114013A1; EA009798B1; CN102606146A; CN103075140A; WO2018114012A1

Designated contracting state (EPC)

DK FR GB NL

DOCDB simple family (publication)

**DE 9312955 U1 19931007**; DE 4319941 A1 19941222; DE 4319941 C2 19951123; DE 4319941 C3 20020808; DK 0629769 T3 19990802; EP 0629769 A2 19941221; EP 0629769 A3 19950628; EP 0629769 B1 19981118

DOCDB simple family (application)

**DE 9312955 U 19930616**; DE 4319941 A 19930616; DK 94109174 T 19940615; EP 94109174 A 19940615