

Title (en)
DEVICE FOR EXTRACTING A LIQUID FROM A LONG PIPE

Publication
EP 0402239 B1 19930120 (FR)

Application
EP 90401523 A 19900605

Priority
FR 8907632 A 19890607

Abstract (en)
[origin: US5054557A] Device for extracting a liquid out of a tube of great length closed at one of its ends in case a communication between the closed end and a source of a substitution fluid should be difficult to establish, the device includes a mobile member provided with a body connected to a supporting surface apparatus, a piston whose cross-section is adapted to the inner cross-section of the tube controlled valve means allowing for the running of the mobile member along the tube and means in the body for providing a substitution fluid such as liquified gas bottles or substances which provide a great volume of gas when combusted. Such a device is useful for example for emptying tube when production tests are conducted in oil wells,.

IPC 1-7
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IPC 8 full level
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CPC (source: EP US)
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DOCDB simple family (publication)
EP 0402239 A1 19901212; **EP 0402239 B1 19930120**; CA 2018493 A1 19901207; CA 2018493 C 20001107; DE 69000789 D1 19930304; DE 69000789 T2 19930513; DK 0402239 T3 19930517; ES 2038498 T3 19930716; FR 2648180 A1 19901214; FR 2648180 B1 19951013; NO 178119 B 19951016; NO 178119 C 19960124; NO 902486 D0 19900605; NO 902486 L 19901210; US 5054557 A 19911008

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