

[54] **METHOD FOR WELL STIMULATION IN THE PROCESS OF OIL PRODUCTION AND DEVICE FOR CARRYING SAME INTO EFFECT**

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[58] **Field of Search** 166/248, 249, 65.1, 166/177; 175/16; 299/14; 134/1; 366/120

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[57] **ABSTRACT**

The method consists in generating periodically shock waves by initiating the electric discharge in a fluid filling in the well between the electrodes. To initiate the electric discharge, a current-conducting fluid comprising a dielectric fluid and a current-conducting powder material is fed additionally between the electrodes. The device for carrying the method into effect comprises a discharge chamber (5) with positive and negative a system of feeding an initials between the electrodes (3, 4), a system of feeding an initiator between the electrodes (3, 4), electrodes (3, 4), and a surge current generator (2). The device has at least one metering valve (12) with a drive (13) and an additional chamber (9) filled in with a dielectric fluid. A duct (10) having a pressure spool valve (11) is provided in the wall of the additional chamber (9). Inlet and outlet holes (7, 6) are provided in the wall of the discharge chamber (5).

22 Claims, 2 Drawing Sheets

