

Title (en)

Flow pulsing apparatus for down-hole drilling equipment.

Title (de)

Flüssigkeitsschwingungsvorrichtung für eine Bohreinrichtung im Bohrloch.

Title (fr)

Dispositif à pulsations de débit pour installation de forage de fond de trou.

Publication

EP 0333484 A2 19890920 (EN)

Application

EP 89302618 A 19890316

Priority

GB 8806465 A 19880318

Abstract (en)

Flow pulsing apparatus is adapted to be connected in a drill string above a drill bit. The apparatus includes a housing providing a passage for a flow of drilling fluid toward the bit. A valve which oscillates in the axial direction of the drill string periodically restricts the flow through the passage to create pulsations in the flow and a cyclical water hammer effect thereby to vibrate the housing and the drill bit during use. Drill bit induced longitudinal vibrations in the drill string can be used to generate the oscillation of the valve along the axis of the drill string to effect the periodic restriction of the flow or, in another form of the invention, a special valve and spring arrangement is used to help produce the desired oscillating action and the desired flow pulsing action.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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