

№2379500

(54) ABRASIVE-RESISTANT CENTRIFUGAL GAS TANK

(57) Abstract:

FIELD: oil-and gas industry.

SUBSTANCE: gas tank contains cylindrical case and a shaft, on which an inlet unit located sequentially in relation to a flow direction, a pressure unit, a separation unit and an separated gas withdrawal in to a hole clearance outlet unit. The separation unit performed as a screw with a variable tooth spacing, which blade forms a constant or monotonous decreasing from the inlet to the outlet angle in diapason from 90 to 30°, with in a meridian cross section rotation axis, at that the screw blade in the cross section perpendicular to the rotation axis, executed with a reducer to a periphery. The cross section ages are hollowed to the rotation side with creation of an angle between tangent line to the cross section and on normal to the rotation axis, the angle is not greater than 90°.

EFFECT: invention of the gas tank, which can operate in liquid, containing abrasive particles, for along time without failure.

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