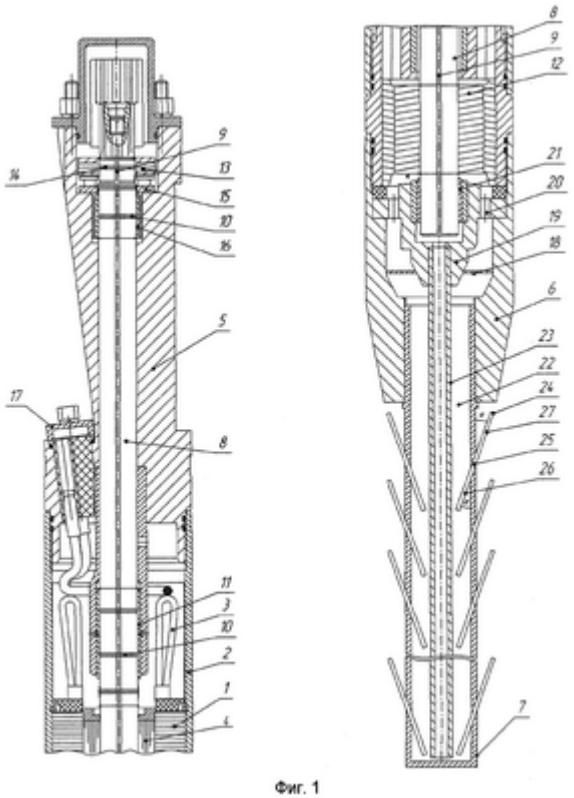
№2295190. Реферат

FIELD: driving centrifugal pumps for oil extraction.

SUBSTANCE: proposed submersible oil-filled motor has encased stator, rotor with hollow shaft, head, current lead assembly, base accommodating filter, oil-filled cavity disposed in base, oil-circulating components, and heat pipes. Evaporation sections of heat pipes are disposed within oil-filled cavity, adiabatic ones, in wall enclosing oil-filled cavity, and condensing sections, beyond oil-filled cavity. The latter is disposed in chamber brought out under base, its diameter being smaller than that of base; chamber accommodates central pipe whose top end is fixed in motor base and bottom one is brought out to bottom part of chamber. Heat pipes are positioned in axial planes of chamber at certain angle to its axis; their adiabatic sections are secured in side wall of chamber and condensing ones are disposed above evaporation sections located in annular clearance between chamber wall and central pipe.

EFFECT: enhanced operating reliability due to augmented cooling of motor.

1 cl, 3 dwg



Фиг. 1