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(54) **RADIAL GUIDE VANE OF MULTI-STAGE SUBMERSIBLE PUMP**

(57) Abstract:

FIELD: engines and pumps.

SUBSTANCE: invention is related to the field of pump engineering and first of all to multi-stage pumps used for oil extraction from wells and for water supply in payout oil-bearing bed for maintenance and increase of reservoir pressure in it. Guide vane consists of cylindrical body 4 arranged as a whole with upper disk, lower disk, inserts 7, guide vertical inserts 8 and cover arranged as separate parts. Inserts 7 installed opposite to spiral outlets 10 contact with internal surface of cylindrical body 4 and are fixed in peripheral grooves of lower disk and between protrusions of neighboring vertical inserts 8. Transition channels formed with the help of profiled inclined grooves in internal cylindrical surface of insert 7. Internal side of vertical inserts 8 arranged along periphery of lower surface of lower disk serves as cylindrical surface of spiral outlets 10, and external side, when joined with inserts 7 creates fourth wall of transition channel.

EFFECT: reduction of hydraulic losses and provision of efficient pumping of liquid with high gas content.

10 cl, 13 dwg

