

№2303169. Реферат

FIELD: oil industry, mechanical engineering, in particular, pumps for extracting oil from wells.

SUBSTANCE: pump contains steps, consisting of guiding apparatuses with end supporting surfaces on clamps and on bushings, and of working wheels. Leading and following working wheel disks have corresponding end supporting surfaces in contact with end supporting surfaces on guiding apparatuses. Contacting supporting surfaces, at least, on clamps of guiding apparatuses and on following disks of working wheels are made with creation of angle between them which expands towards the axis of guiding apparatus. The angle between contacting supporting surfaces equals $5-8^{\circ}$.

EFFECT: invention ensures increased durability of down-pump due too increased serviceability of supporting surfaces of working wheel washers and corresponding supporting surfaces on guiding apparatuses without complication of step manufacturing technology and increase of their manufacturing laboriousness.

2 cl, 6 dwg

