

№2246044

FIELD: oil engineering; submersible multi-stage pumps for discharge of formation fluid from wells.

SUBSTANCE: proposed stage includes closed-type impeller with drive and driven disks and blades between them and guiding apparatus. Inclined blades are mounted on outer surface of impeller driven disk. Peripheral parts of these blades are rounded-off in radius directed towards rotation of impeller. Cover of guiding apparatus has radial fins. Peripheral parts of these fins are rounded-off over radius directed to side opposite to rotation of impeller. Height of inclined blades on driven disk of impeller and radial fins on cover of guiding apparatus is 0.3-0.4 and rounding-off radius of peripheral parts of inclined blades and radial fins is 2-2.5 of width of passage of impeller at outlet.

EFFECT: avoidance of emerging of impeller; increased pressure head at retained efficiency.

2 cl, 4 dwg

