

ABSTRACT

There is provided a hydraulic turbomachine comprising a housing, one or more impellers arranged rotatably around an axis within the housing, one or more resin-made diffusers provided around the one or more impellers for defining diffuser channels around the impellers, respectively, one or more support members provided within the housing and engaged under pressure with corresponding ones of the diffusers for securely supporting the corresponding diffusers in the direction of the above-noted axis within the housing, and elastic members held between surfaces of the support members and the diffusers in the above-noted direction. An O-ring receiving groove is formed in each of the surfaces of the diffusers in such a manner that the groove surrounds the axis, and an O-ring is placed in the groove as the elastic member.