

Title (en)
BLADE FOR AN IMPELLER

Title (de)
SCHAUFEL FÜR EIN LAUFRAD

Title (fr)
AUBE DE ROTOR

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Abstract (en)
[origin: EP3872350A1] The invention relates to a blade for an impeller, in particular for a radial flow impeller, comprising a lamella (20), which is at least partly reversibly elastically deformable, and a backbone (21) extending in a longitudinal direction (L), which backbone (21) is mounted to or formed integrally with a side (200, 201, 202, 203) of the lamella (20), wherein the backbone (21) has a first end (211) and a second end (212), which first end (211) and second end (212) are reversibly displaceable in the longitudinal direction (L) towards each other under a lateral deflection of the backbone (21), wherein the lamella (20) is configured such that the lateral deflection of the backbone (21) causes a lateral deformation of the lamella (20) and a flap motion of the lamella (20) about an axis parallel to the longitudinal direction (L). The invention further relates to impellers, in particular radial flow impellers, comprising several blades, and to turbomachines having an impeller, in particular axial or centrifugal fans or axial or centrifugal pumps. In addition, the invention relates to a household appliance comprising a turbomachine having an impeller.

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