

Abstract

Pump housing with hard inner layer and weldable outer layer

A pump device comprising: i. an impeller; ii. a pump housing which at least partly surrounds an interior region and has an inlet and an outlet, wherein the impeller is provided in the interior region of the pump housing; wherein the pump housing comprises a composite of a first hollow body and a further hollow body which at least partly surrounds the first hollow body on the side facing away from the interior region; wherein at least 60% of the surface area of the side of the first hollow body facing away from the interior space is connected to the further hollow body, based on the surface area of the side of the first hollow body facing away from the interior space, wherein the pump housing faces the interior region with a further surface of the first hollow body; wherein the further surface of the first hollow body facing the interior region of the pump housing has a hardness of at least 330 HV, wherein the further hollow body has a metal content of at least 50% by weight, based on the total mass of the further hollow body, is disclosed. Furthermore, a process for producing a pump device is described. In addition, a description is given of a pump housing produced by the process of the invention and also of a housing which has the same features as the pump housing of the pump device of the invention.

(Fig. 1)