

Abstract**Pump housing made of a magnetic and a non-magnetic material**

The invention relates to 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 wall of the pump housing has at least one first subregion and at least two further subregions in at least one plane (Q) perpendicular to the longitudinal extension of the pump housing; wherein the at least one first subregion comprises at least 60% by weight, based on the total mass of the at least one first subregion, of at least one nonmagnetic material, wherein the further subregions comprise at least 41% by weight, based on the total mass of the further subregions, of at least one ferromagnetic material, wherein each further subregion is adjacent to at least one first subregion in the plane (Q) and wherein the at least one first subregion and the further subregions are connected to one another in a material-fitting manner. The invention further relates to a housing which comprises the features described for the pump housing.

The invention also relates to a process for producing a pump housing, which comprises the steps: a. provision of a first material; b. provision of a further material; c. formation of a pump housing precursor, wherein at least one first subregion of the pump housing is made of the first material and wherein at least two further subregions of the pump housing are made of the further material; and d. treatment of the pump housing precursor at a temperature of at least 300°C.

(Fig. 1)