

Abstract

PUMP HOUSING MADE FROM AT LEAST TWO DIFFERENT SINTERABLE MATERIALS

The invention relates to a pump device, comprising i. an impeller; ii. a pump housing which at
5 least partly surrounds an interior region, having an inlet and an outlet, wherein the impeller is
located within the interior region of the pump housing; wherein the pump housing comprises at
least one first subregion and at least one further subregion; wherein the first subregion
comprises a ceramic, wherein the further subregion comprises a metal, wherein at least one
10 part of the first subregion and at least one part of the further subregion are connected to one
another. The invention further relates to a housing which comprises the features described for
the pump housing.

The invention also relates to a method for producing a pump housing, comprising the steps: a.
providing a first material; b. providing a further material; c. forming a pump housing precursor,
15 wherein a first subregion of the pump housing is formed from the first material and wherein a
further subregion of the pump housing is formed from the further material; and d. treating the
pump housing precursor at a temperature of at least 300°C.

20 (Fig. 1)