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(54) **REINFORCEMENT INTEGRATED INTO THE STRUCTURE OF WOUND COMPONENTS CONSISTING OF COMPOSITE MATERIALS**

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See application file for complete search history.

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(57) **ABSTRACT**

The invention relates to a component for use as a rotating component, to a corresponding rotational body and to a method for producing said component. The component comprises a fiber-composite region consisting of fiber-composite materials and embedded fibers, said region having one or more normal regions comprising one or more first fibers with a first mechanical load-bearing capacity and one or more reinforcement regions, said reinforcement regions being provided for connection to a respective force-transmission component, in order to vary the rotational energy of the component, and comprising as a reinforcement one or more second fibers with a higher load-bearing capacity in relation to the first fibers. The invention thus provides a component comprising space-saving reinforced regions, said component being capable of compensating the stresses on the component during operation and having a long service life.

**15 Claims, 4 Drawing Sheets**

