

## Abstract

Device and Method for Preventing and Treating A Vasospasm

5 The invention relates to a device having a stent structure (2) for inserting into  
intracranial blood vessels (6) of the human or animal body, wherein the stent  
structure (2) has an expanded state, in which the stent structure is able to contact  
the inner wall of the blood vessel (6), and a compressed state, in which the stent  
structure can be moved through the blood vessel (6) within a microcatheter (4),  
10 wherein the stent structure (2) is connected to an insertion aid (3) and wherein the  
stent structure (2) is able to independently transition into the expanded state after  
release from the microcatheter (4), wherein the stent structure (2) has electrical  
conductors (13), by means of which electrical pulses, high-frequency pulses, or  
ultrasonic pulses can be applied to nerve fibers extending in the vessel wall of the  
15 blood vessel (6) in order to temporarily or permanently reduce the function of the  
nerve fibers and to prevent or treat a vasospasm.

- Fig. 1 -