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**Rapaport et al.**

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(54) **METHOD AND APPARATUS FOR ALLOWING BLOOD FLOW THROUGH AN OCCLUDED VESSEL**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 206 days.

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**Related U.S. Application Data**

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(57) **ABSTRACT**

(51) **Int. Cl.**  
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A device arranged to sustain and/or provide at least partial patency of a small blood vessel exhibiting an occlusion, the device constituted of a tubular body expandable from a first small diameter state for manipulation to, and through, the occlusion of the small blood vessel and a second large diameter state, the inner dimensions of the second large diameter state being no more than 50% of the diameter of the small blood vessel at the occlusion location, the device presenting a conduit for blood flow through the occlusion when in the large diameter state. In one embodiment the small blood vessel is an intracranial blood vessel.

(52) **U.S. Cl.**  
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(58) **Field of Classification Search**  
CPC ..... A61B 17/221; A61B 17/32075; A61B 2017/2215; A61B 2017/00893; A61B

**31 Claims, 17 Drawing Sheets**

