

ABSTRACT**VASCULAR TREATMENT DEVICES AND METHODS**

Vascular treatment devices and methods include a woven structure including a plurality of bulbs that may be self-expanding, a hypotube, for example including interspersed patterns of longitudinally spaced rows of kerfs, and a bonding zone between the woven structure and the hypotube. The woven structure may include patterns of radiopaque filaments measureable under x-ray. Structures may be heat treated to include various shapes at different temperatures. The woven structure may be deployable to implant in a vessel. A catheter may include a hypotube including interspersed patterns of longitudinally spaced rows of kerfs and optionally a balloon. Laser cutting systems may include fluid flow systems.

(FIG. 2B)