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(54) Title: NEEDLE TIP BLUNTING USING A LENGTH OF A GUIDEWIRE

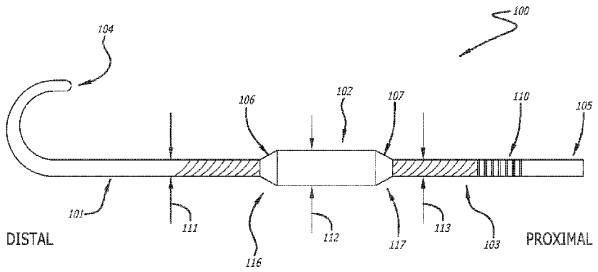
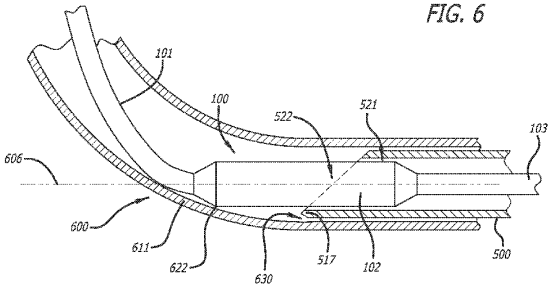


FIG. 1

FIG. 6



(57) Abstract: Guidewire 100 including a distal section 101, a proximal section 103 and a middle section 102 disposed between the distal section and the proximal section, wherein the middle section has a flexural stiffness that is greater than a flexural stiffness of both of the distal section and the proximal section. The distal section is configured for insertion into a vasculature of a patient. A diameter of the middle section may be greater than a diameter of the distal section. The guidewires may include a tapered distal transition portion disposed between the distal section and the middle section and a solid core wire extending a length of the guidewire, the solid core wire including a first diameter extending along the distal section, a second diameter extending along the proximal section, and a third diameter extending along the middle section, wherein the third diameter is greater than the first and second diameters.

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