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Moonka

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[54] **SYRINGE AND NEEDLE WITH GUIDE WIRE FOR CANNULATION OF CENTRAL VEINS**

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[57] ABSTRACT

[51] Int. Cl.⁵ **A61M 5/32; A61M 25/01; A61M 5/178**

A hub member interconnecting a needle and syringe includes a side port having a bore therein that intersects the needle bore at an acute angle. A guide wire which is intended to be introduced into a human blood vessel extends from the exterior of the side port, through the side port bore and terminates within the needle bore. An O-ring located within the side port seals around the guide wire to prevent communication between the needle bore and the exterior of the side port when the guide wire is at rest.

[52] U.S. Cl. **604/164; 604/158; 604/169; 604/218; 604/239; 604/187**

[58] Field of Search **604/239, 218, 164, 169, 604/158, 167, 187**

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5 Claims, 1 Drawing Sheet

