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# United States Patent [19]

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Melker et al.

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- [54] **INTRAOSSUEOUS NEEDLE**
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### Related U.S. Application Data

- [63] Continuation of Ser. No. 884,323, May 11, 1992, which is a continuation of Ser. No. 627,020, Dec. 13, 1990, abandoned, which is a continuation-in-part of Ser. No. 261,699, Oct. 24, 1988, abandoned.
- [51] Int. Cl.<sup>6</sup> ..... **A61B 17/00; A61B 17/34; A61M 5/00**
- [52] U.S. Cl. .... **606/79; 606/185; 604/264**
- [58] Field of Search ..... **606/79, 80, 185; 604/164, 165, 168, 179, 188, 264, 272, 273, 280, 239.**

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### [57] ABSTRACT

An intraosseous needle having a threaded shaft with a passageway extending substantially therethrough, a solid and pointed tip at one end thereof, the tip having a plurality of cutting edges which facilitate boring through a bone. The shaft also includes two side ports in communication with the passageway to allow fluids to pass through the needle into the interior of the bone after successful insertion thereof. There is a hub at the opposite end of the shaft, whereby the needle is adapted to couple with an appropriate gripping device. A handle is provided in the shape of a ball knob and is adapted to telescopically and grippingly receive the hub of the needle. The hub and handle are both equipped with mutually engaging torque-transmitting surfaces.

35 Claims, 3 Drawing Sheets

