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**Verness**

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(54) **ELECTRICAL MEDICAL LEADS  
EMPLOYING CONDUCTIVE AEROGEL**

**Publication Classification**

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(US)**

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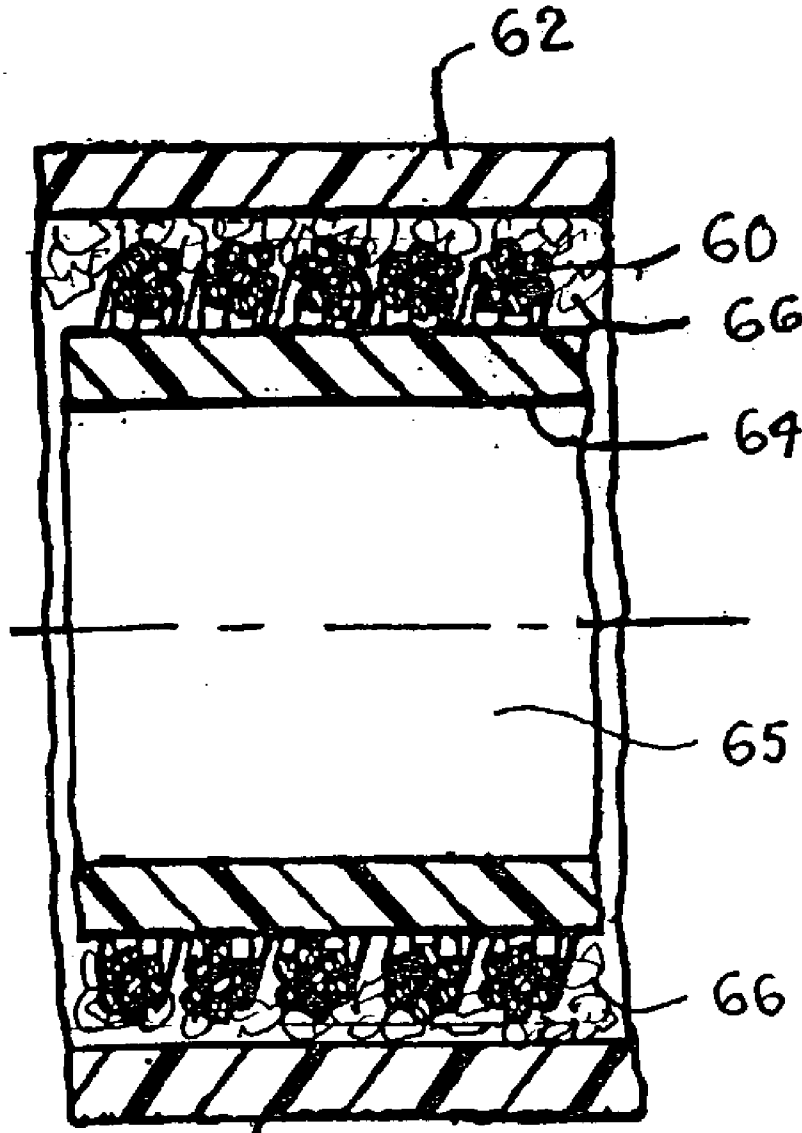
(57) **ABSTRACT**

Conductive aerogels are employed in fabrication of electrical medical leads adapted to be implanted in the body and subjected to bending stresses. An elongated, flexible and resilient, lead body extends from a proximal end to a distal end and includes an insulative sheath having an elongated lumen through which an elongated conductor extends. A layer of conductive aerogel is disposed over the conductor deforming upon movement of the conductor within the lumen against the aerogel in response to applied stresses.

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Neuro Corn

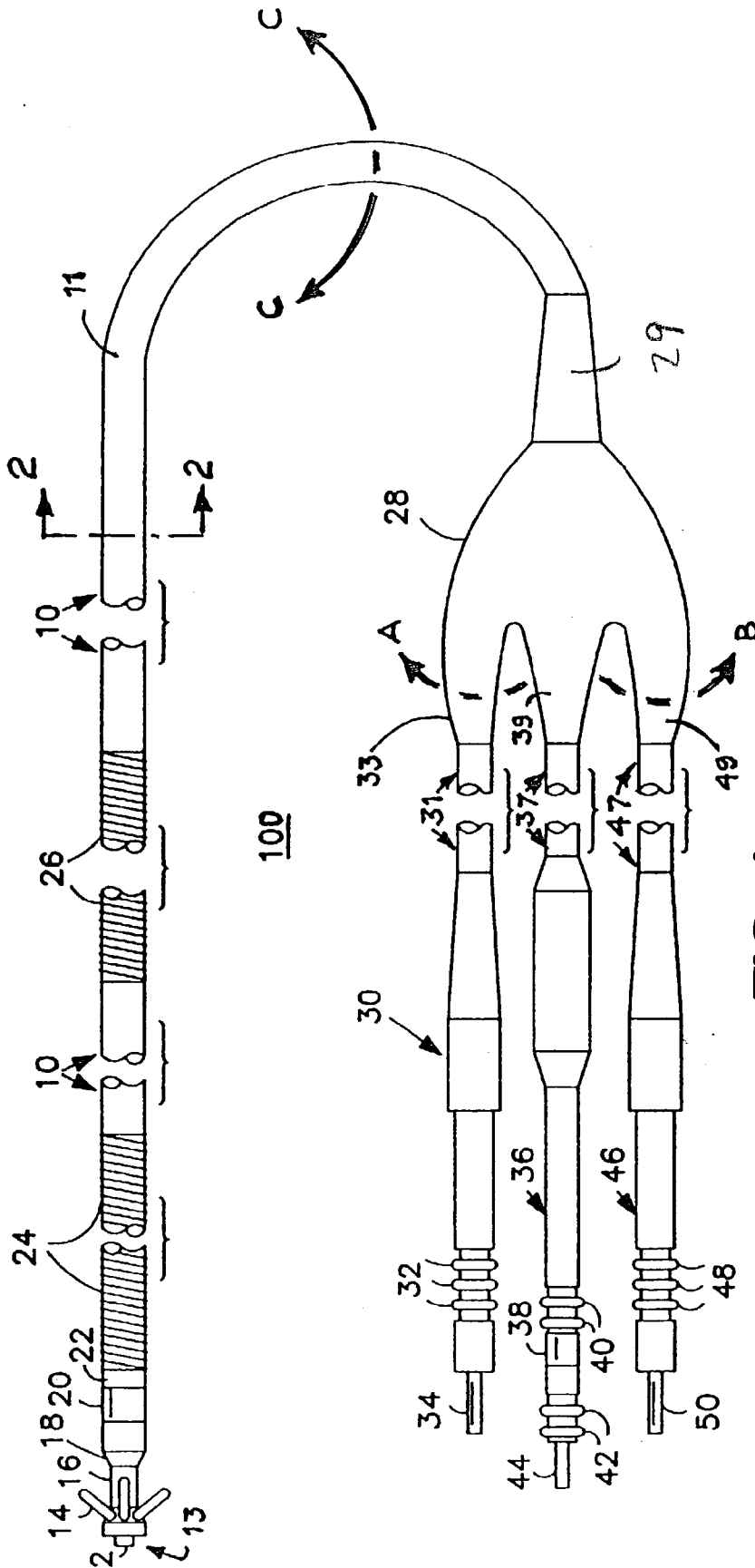
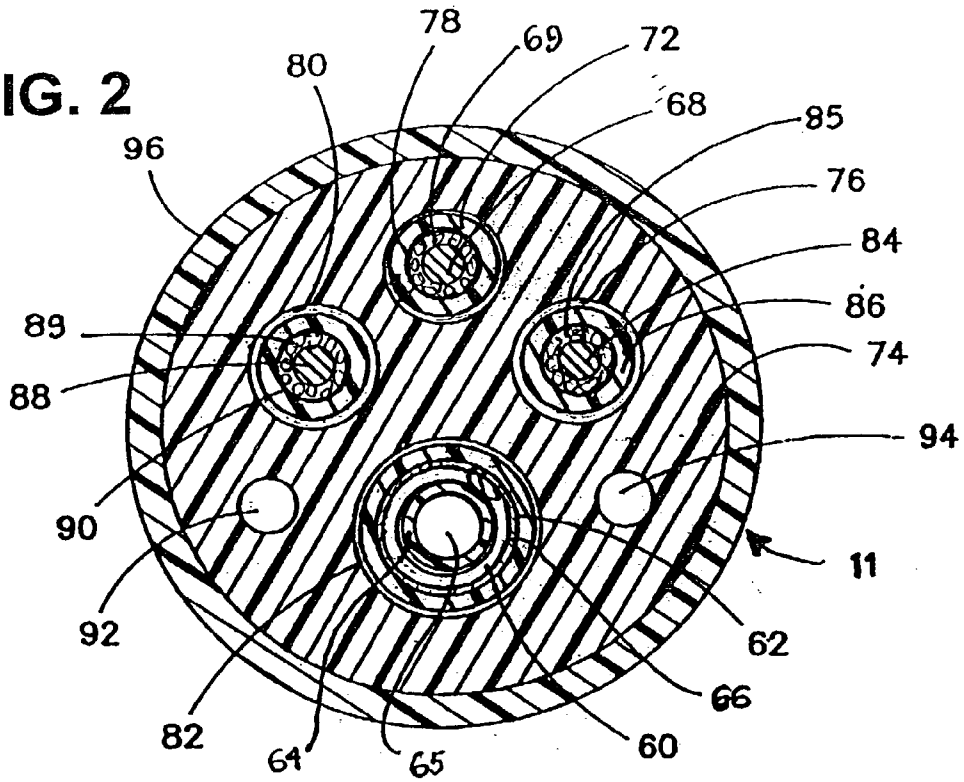
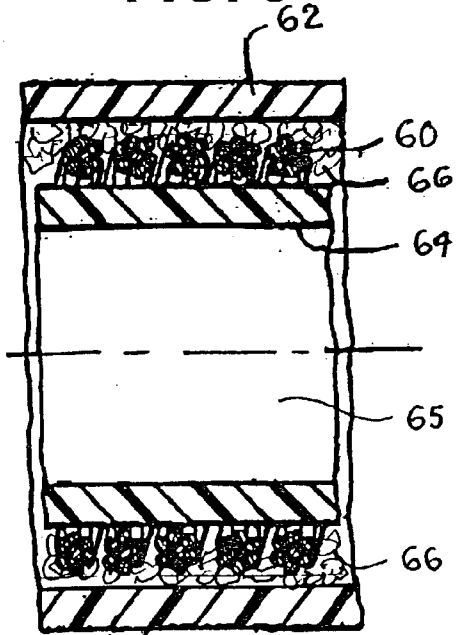


FIG. 1

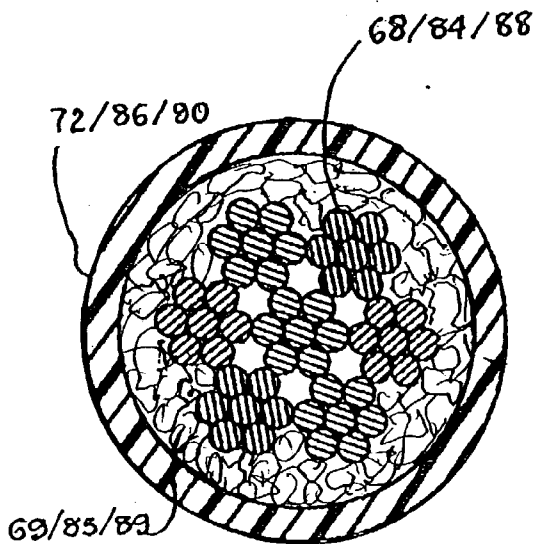
**FIG. 2**

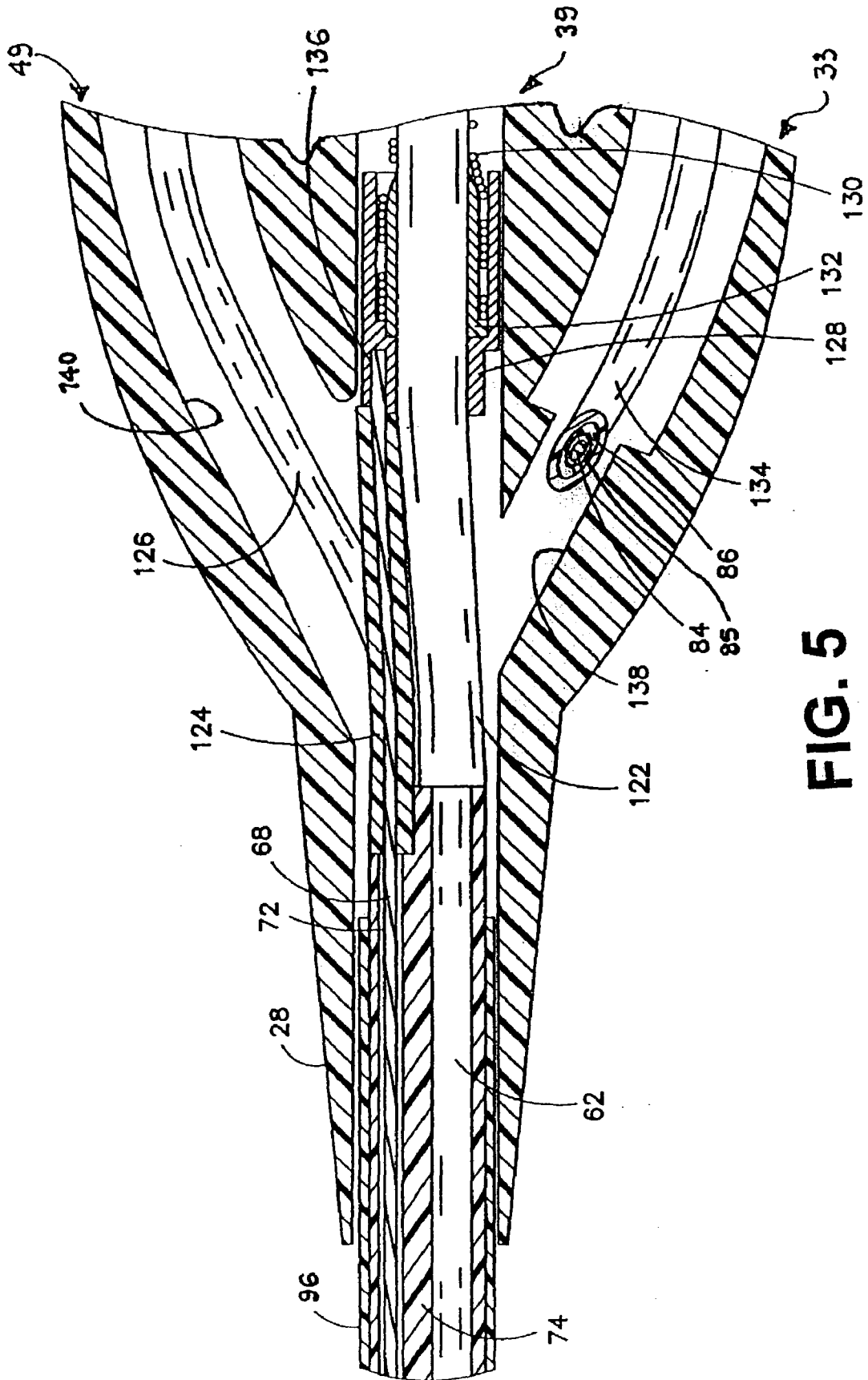


**FIG. 3**



**FIG. 4**





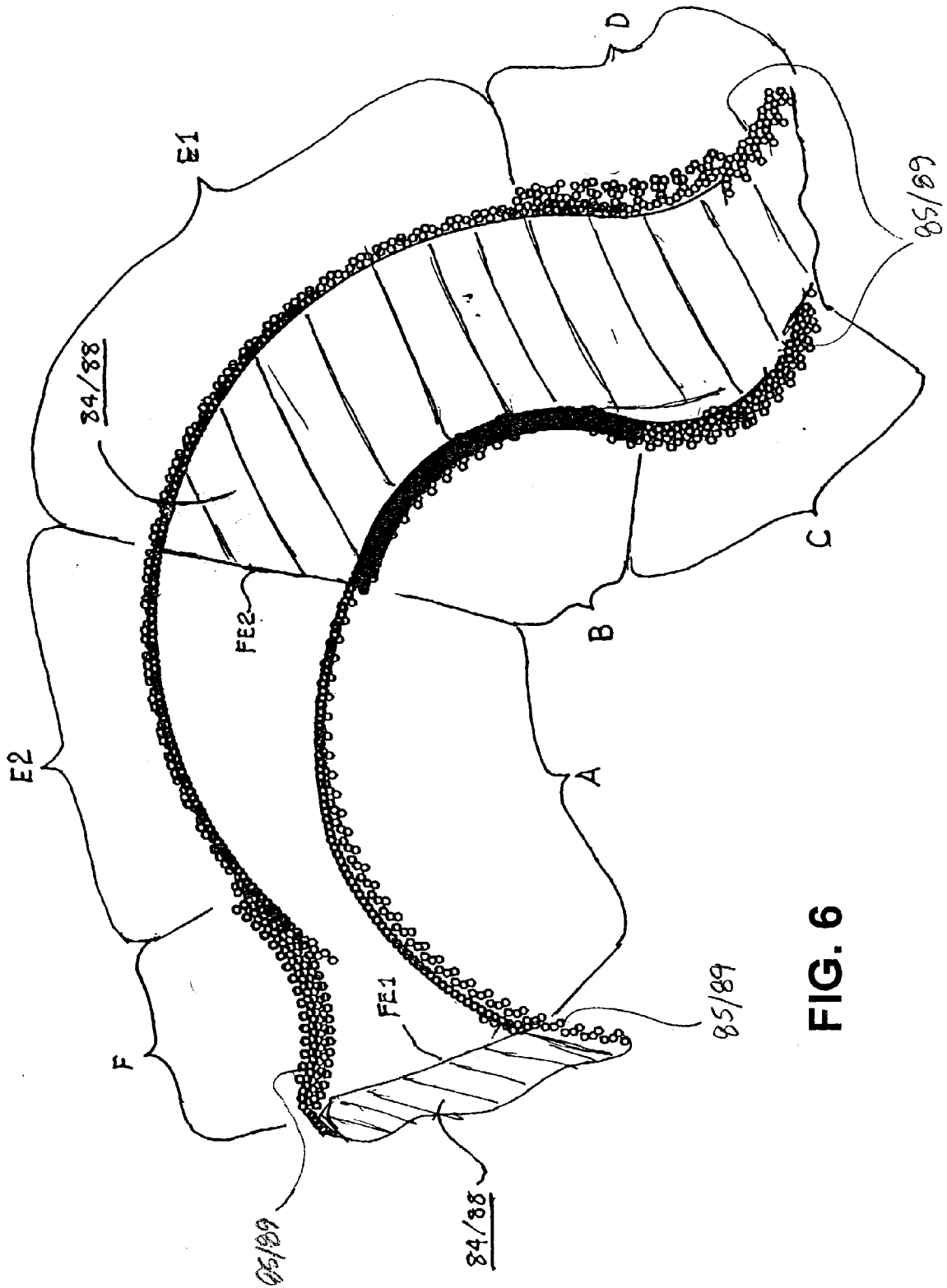


FIG. 6

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