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Appenzeller et al.

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(54) **INTRAMEDULLARY FIXATION SYSTEM**

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(57) **ABSTRACT**

An intramedullary fixation system is configured to be fixed to first and second bone segments that are separated by a defect. The system includes an intramedullary fixation member that includes first and second wire segments that are twisted about each other so as to define a plurality of intersections. A distal one of the intersections is separable, such that rotation of the fixation device in a medullary canal causes bone material in the medullary canal to apply a counterforce to the wire segments that causes the distal intersection to separate, thereby driving respective distal ends of the wire segments into the bone segment, such that subsequent movement of the intramedullary fixation member toward the first bone segment causes the second bone segment to move toward the first bone segment. The intramedullary fixation system can further include a fixation clip that anchors the intramedullary fixation member to the first bone segment.

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See application file for complete search history.

27 Claims, 5 Drawing Sheets

