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Lampert**

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(54) **ENDODONTIC INSTRUMENT AND
INSTRUMENT SYSTEM**

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A61C 5/02 (2006.01)

(52) **U.S. Cl.** **433/102; 433/165**

(58) **Field of Classification Search** **433/102,**
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See application file for complete search history.

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(57) **ABSTRACT**

An endodontic file is provided for shaping and/or preparing a root canal. The file may include multiple cutting segments separated by non-cutting segments. The cutting segments are tapered and may have a cutting edge formed by plural helical flutes. Alternatively, the cutting segments may be formed of a substantially non-circular geometric shape with substantially straight cutting edges. The file is flexible and has increased resistance to cyclic fatigue breakage. The file further controls or limits which areas of the root canal are shaped and/or prepared during file use. The file may form part of a series of files to shape and/or prepare a root canal. Each file in the series may have cutting segments and non-cutting segments strategically placed in different regions along the working portion of the file to shape and/or prepare different portions of the root canal.

11 Claims, 5 Drawing Sheets

