

US Endodontics, LLC's Hearing Presentation

US Endodontics, LLC

Petitioner,

v.

Gold Standard Instruments, LLC,

Patent Owner.

Case IPR2015-00632

Patent 8,727,773 B2

Exemplary Endodontic File



US Pat. No. 8,727,773

1. A method for manufacturing or modifying an endodontic instrument for use in performing root canal therapy on a tooth, the method comprising:

(a) providing an elongate shank having a cutting edge extending from a distal end of the shank along an axial length of the shank, the shank comprising a superelastic nickel titanium alloy, and

(b) after step (a), heat-treating the entire shank at a temperature from 400° C. up to but not equal to the melting point of the superelastic nickel titanium alloy,

wherein the heat treated shank has an angle greater than 1 degree of permanent deformation after torque at 4 degrees of flexion when tested in accordance with ISO Standard 3630-1.

US Pat. No. 8,727,773

13. A method for manufacturing or modifying an endodontic instrument for use in performing root canal therapy on a tooth, the method comprising:

(a) providing an elongate shank having helical flutes defining a cutting edge extending from a distal end of the shank along an axial length of the shank, the instrument being in accordance with ISO Standard 3630-1, the shank consisting essentially of a superelastic nickel titanium alloy; and

(b) after step (a), heat-treating the entire instrument shank at a temperature from 475° C. to 525° C.,

wherein the heat-treated shank has an angle greater than 10 degrees of permanent deformation after torque at 45° of flexion tested in accordance with ISO Standard 3630-1

US Pat. No. 8,727,773

Q Well, you do not claim to be the inventor of a superelastic nickel-titanium alloy that comprises 54 to 57 weight percent nickel and 43 to 46 weight percent titanium. Correct?

A I'm not the inventor of the material?

Q Correct.

A No, I'm not the inventor of the material.

Q Endodontic files comprising this composition were known in the art prior to the time that you first filed your application for a patent in 2004. Correct?

A That's correct. They were known.

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