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## Laser-Assisted Fabrication of NMR Resonators

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# (12) United States Patent Brey et al.

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(54)	LASER-ASSISTED FABRICATION OF NMR RESONATORS						
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(60)	Rel Provisional 1999. Int. Cl. <sup>7</sup>	ated U.S. Application Data					
(60) (51)	Rel Provisional 1999. Int. Cl. <sup>7</sup>	ated U.S. Application Data application No. 60/163,402, filed on Nov. 4,					
(60) (51)	Rel Provisional 1999. Int. Cl. <sup>7</sup> U.S. Cl Field of S	ated U.S. Application Data application No. 60/163,402, filed on Nov. 4,					
(60) (51) (52)	Rel Provisional 1999. Int. Cl. <sup>7</sup> U.S. Cl Field of S	ated U.S. Application Data application No. 60/163,402, filed on Nov. 4,					
(60) (51) (52)	Rel Provisional 1999. Int. Cl. <sup>7</sup> U.S. Cl Field of S	ated U.S. Application Data application No. 60/163,402, filed on Nov. 4,					
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#### **ABSTRACT** (57)

A detection coil for use in nuclear resonance magnetic (NMR) spectroscopy and a method of manufacture thereof. At least two film layers of material are deposited on an outer surface of a cylindrical tube of dielectric material. The layers are patterned to form a solenoid on the tube. At least one of the deposited materials is a conductor.

#### 17 Claims, 5 Drawing Sheets

