

Title (en)  
AN ANTENNA HAVING RADIO FREQUENCY LIQUID CRYSTAL (RFLC) MIXTURES WITH HIGH RF TUNING, BROAD THERMAL OPERATING RANGES, AND LOW VISCOSITY

Title (de)  
ANTENNE MIT RADIOFREQUENZ-FLÜSSIGKRISTALL (RFLC)-MISCHUNGEN MIT HOHER RF-ABSTIMMUNG, BREITEN THERMISCHEN BETRIEBSBEREICHEN UND NIEDRIGER VISKOSITÄT

Title (fr)  
ANTENNE AYANT DES MÉLANGES DE CRISTAUX LIQUIDES À RADIOFRÉQUENCE (RFLC) À ACCORD RF ÉLEVÉ, DE LARGES PLAGES DE FONCTIONNEMENT THERMIQUE ET UNE FAIBLE VISCOSITÉ

Publication  
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Application  
**EP 17800317 A 20170520**

Priority

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Abstract (en)  
[origin: WO2017201515A1] A device containing a radio-frequency (RF) liquid crystal (RFLC) mixture with improved performance is disclosed. In one embodiment, the improved performance includes high RF tuning, broad thermal operating ranges and low viscosity. In one embodiment, the device comprises an antenna comprising: an antenna element array having a plurality of antenna elements and each antenna element having a liquid crystal (LC) structure, wherein the LC structure comprises a mixture of one or more of the following: laterally functionalized with one or more of at least a proton, a hydrogen (H), or a heteroatom.

IPC 8 full level  
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Citation (search report)

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- See also references of WO 2017201515A1

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