

Title (en)  
OPTICAL SYSTEM FOR RF WAVE SPECTRAL ANALYSIS

Title (de)  
OPTISCHES SYSTEM ZUR HF-WELLEN-SPEKTRALANALYSE

Title (fr)  
SYSTÈME OPTIQUE D'ANALYSE DE SPECTRE D'ONDES RF

Publication  
**EP 2948782 A1 20151202 (EN)**

Application  
**EP 13829016 A 20131231**

Priority  
• PL 40256513 A 20130127  
• PL 2013000179 W 20131231

Abstract (en)  
[origin: WO2014116130A1] The system consists of a spectrophotometer (7), laser optical resonator system and an acousto-optic transducer, where an acoustic wave is generated by the piezoelectric transducer (4) connected with the source of RF signals. The acousto-optic transducer constitutes the final component in the resonator optical system. Between the resonant cavity and acousto-optic transducer there is the first focusing optical system (5) that focuses light wave propagating inside the resonator on the front surface of the waveguide being part of the acousto-optic transducer, piezoelectric transducer (4) is attached to the waveguide on the opposite of the front surface forming an extension of the resonator optical axis, while between output mirror (1) and the spectrophotometer (7) there is another focusing optical system installed (6) that focuses the output light beam at the spectrometer (7) inlet.

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
See references of WO 2014116130A1

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DOCDB simple family (publication)  
**WO 2014116130 A1 20140731**; EP 2948782 A1 20151202; PL 222898 B1 20160930; PL 402565 A1 20140804

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