

Title (en)
Resonant assembly

Title (de)
Resonatoranordnung

Title (fr)
Ensemble de résonance

Publication
EP 2814112 A1 20141217 (EN)

Application
EP 13305800 A 20130613

Priority
EP 13305800 A 20130613

Abstract (en)
A resonator assembly, comprises: a resonator having a first resonance post coaxially surrounded by a conductive enclosure defining a cavity. The first resonance post is operable to filter a signal at a first frequency. The resonator further comprises a second resonance post located within the cavity. The second resonance post is operable to filter a signal at a second frequency. The resonator comprises a signal coupling configured to couple the signal to a resonator output. Through this approach it is possible to provide an adaptable single device which implements more than one independent resonances within the same cavity volume, allowing to build significantly smaller cavity filters, which avoids the need to provide separate devices, one for each frequency by allowing for independent coupling of each resonant frequency from said cavity. This is particular convenient in resonant assemblies used in RF front ends which will often be required to receive signals at two different frequencies, one for uplink and one for downlink.

IPC 8 full level
H01P 1/213 (2006.01); **H01P 1/205** (2006.01); **H01P 7/04** (2006.01)

CPC (source: EP)
H01P 1/2053 (2013.01); **H01P 7/04** (2013.01)

Citation (search report)
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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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