

Title (en)  
A RESONATOR ASSEMBLY AND FILTER

Title (de)  
RESONATORANORDNUNG UND FILTER

Title (fr)  
ENSEMBLE DE RÉSONATEUR ET FILTRE

Publication  
**EP 3079198 A1 20161012 (EN)**

Application  
**EP 15305524 A 20150409**

Priority  
EP 15305524 A 20150409

Abstract (en)  
Aspects and embodiments relate to cavity resonator assemblies and filters formed from those cavity resonator assemblies. A first aspect provides a resonator assembly comprising: a conductive resonator cavity, a primary resonant member, an auxiliary resonant member and a signal feed. The primary resonant member is located within the conductive resonator cavity and arranged to receive a signal from the signal feed and configured to resonate within the cavity at a primary fundamental frequency. The auxiliary resonant member is located within the conductive resonator cavity, arranged to receive a signal from the signal feed and configured to resonate within the cavity at an auxiliary fundamental frequency and configured to impede coupling of a signal from the signal feed to the primary resonant member at the auxiliary fundamental frequency. Arrangements described may allow for independent control of spurious frequencies in resonator or filter output.

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**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)  
• [I] US 2527664 A 19501031 - WHEELER HAROLD A  
• [X] EP 2814111 A1 20141217 - ALCATEL LUCENT [FR]  
• [X] US 2594037 A 19520422 - LANDON VERNON D, et al  
• [X] US 3876963 A 19750408 - GRAHAM GERALD

Designated contracting state (EPC)  
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

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