

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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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)
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