

Title (en)
RESONATOR

Title (de)
RESONATOR

Title (fr)
RESONATEUR

Publication
EP 3285331 B1 20200722 (EN)

Application
EP 16184491 A 20160817

Priority
EP 16184491 A 20160817

Abstract (en)
[origin: EP3285331A1] A resonator and method are disclosed. The resonator comprises: a resonant chamber defined by a first wall, a second wall opposing the first wall and side walls extending between the first wall and the second wall; pairs of resonant posts, each pair of resonant posts comprising a first resonant post separated from a second resonant post by an intra-pair gap and located in proximity with each other for magnetic field coupling between the first resonant post and the second resonant post, the first resonant post being grounded on the first wall and extending into the resonant chamber from the first wall, the second resonant post being grounded on the second wall and extending into the resonant chamber from the second wall; and wherein the pairs of resonant posts are separated by an inter-pair gap and located in proximity with each other for magnetic field coupling between the pairs of resonant posts. In this way, coupling is provided not only between the resonant posts making up each pair, but also between pairs of resonant posts which provides for an even greater level of miniaturisation compared to previous approaches, while still retaining the same degree of performance.

IPC 8 full level
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H01P 1/2084 (2013.01); **H01P 7/10** (2013.01)

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