

Title (en)  
BRIDGE COMBINERS AND FILTERS FOR RADIO-FREQUENCY APPLICATIONS

Title (de)  
BRÜCKENKOMBINIERER UND FILTER FÜR HOCHFREQUENZANWENDUNGEN

Title (fr)  
COMBINEURS ET FILTRES EN PONT POUR APPLICATIONS RADIOFRÉQUENCES

Publication  
**EP 4133593 A1 20230215 (EN)**

Application  
**EP 21785082 A 20210428**

Priority  
• US 202063005421 P 20200405  
• US 2021029614 W 20210428

Abstract (en)  
[origin: WO2021207744A1] A coupling circuit can be configured to couple a common node to a first group of filters through a first path and to couple the common node to a second group of one or more filters through a second path. The coupling circuit can be configured such that an impedance provided by each filter of the first group for a signal in each band of the second group results in the signal being sufficiently excluded from the first path, and such that an impedance provided by each filter of the second group for a signal in each band of the first group results in the signal being sufficiently excluded from the second path. The first path can present a first impedance to the coupling circuit, and the second path can present a second impedance to the coupling circuit, such that complex part of the first impedance is a conjugate of complex part of the second impedance.

IPC 8 full level  
**H03H 7/46** (2006.01); **H03H 7/01** (2006.01); **H03H 7/38** (2006.01)

CPC (source: EP KR)  
**H03H 7/463** (2013.01 - EP KR); **H03H 9/706** (2013.01 - EP KR); **H03H 9/725** (2013.01 - EP KR); **H04B 1/0057** (2013.01 - EP KR)

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

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2021207744 A1 20211014**; CN 115812278 A 20230317; EP 4133593 A1 20230215; KR 20230166037 A 20231206

DOCDB simple family (application)  
**US 2021029614 W 20210428**; CN 202180038190 A 20210428; EP 21785082 A 20210428; KR 20227038755 A 20210428