

Title (en)  
HIGH-FREQUENCY SIGNAL COMBINER

Title (de)  
HOCHFREQUENZ-SIGNALKOMBINIERER

Title (fr)  
COMBINEUR DE SIGNAUX HAUTE FRÉQUENCE

Publication  
**EP 2494652 B1 20180404 (DE)**

Application  
**EP 10762876 A 20101007**

Priority  
• DE 102009051229 A 20091029  
• EP 2010006137 W 20101007

Abstract (en)  
[origin: WO2011050898A1] A high-frequency signal combiner consists of a first input connection (1) for connecting a first high-frequency signal, a second input connection (2) for connecting a second high-frequency signal, an output connection (8) for outputting the third high-frequency signal, which is a combination of the first and second signals. A first coaxial line (4) extends between the first input connection (1) and the output connection (8). A second coaxial line (6) extends between the second input connection (2) and the output connection (8). Furthermore, an annular core (7) is present, through the recess (20) of which the first and second coaxial lines (4, 6) are guided, each in a different direction. The annular core (7) is made of an axially wound strip, which consists of a first layer (16) made of magnetizable material and a second layer (17) made of an insulating material.

IPC 8 full level  
**H01P 5/10** (2006.01); **H01P 5/12** (2006.01)

CPC (source: EP US)  
**H01P 5/10** (2013.01 - EP US); **H01P 5/12** (2013.01 - EP US)

Citation (examination)  
JP 2004103742 A 20040402 - MITSUBISHI HEAVY IND LTD

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

DOCDB simple family (publication)  
**WO 2011050898 A1 20110505**; DE 102009051229 A1 20110512; EP 2494652 A1 20120905; EP 2494652 B1 20180404;  
US 2012212302 A1 20120823; US 8912864 B2 20141216

DOCDB simple family (application)  
**EP 2010006137 W 20101007**; DE 102009051229 A 20091029; EP 10762876 A 20101007; US 201013505282 A 20101007