

Title (en)  
ANTENNA FOR COMMUNICATING WITH A TRANSPONDER

Title (de)  
ANTENNE ZUR KOMMUNIKATION MIT EINEM TRANSPONDER

Title (fr)  
ANTENNE DE COMMUNICATION AVEC UN TRANSPONDEUR

Publication  
**EP 3753073 A1 20201223 (DE)**

Application  
**EP 19706425 A 20190213**

Priority  
• DE 102018103288 A 20180214  
• EP 2019053477 W 20190213

Abstract (en)  
[origin: WO2019158543A1] The invention relates to a device for exchanging data with a transponder. A first antenna surface (1) extends on a broad-side surface of a dielectric body (4). A reflection surface (5) is provided on the opposite broad-side surface. At the back of the reflection surface (5) there is a feed network (7) for providing a phase-shifted alternating voltage, which is coupled into the antenna surface (1) at a plurality of different feed points (2) by means of feed elements (8) penetrating the reflection surface (5) in an isolated manner. A second antenna surface (11) is spaced apart from the first antenna surface (1) at a distance (A) by means of spacers (15).

IPC 8 full level  
**H01Q 9/04** (2006.01); **H01Q 5/378** (2015.01); **H01Q 19/10** (2006.01); **H01Q 21/06** (2006.01)

CPC (source: EP US)  
**H01Q 5/378** (2013.01 - EP); **H01Q 9/0414** (2013.01 - EP US); **H01Q 9/0428** (2013.01 - EP US); **H01Q 9/045** (2013.01 - US);  
**H01Q 19/10** (2013.01 - EP US); **H01Q 21/0075** (2013.01 - EP); **H01Q 21/065** (2013.01 - EP)

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

DOCDB simple family (publication)  
**DE 102018103288 A1 20190814**; CN 111684656 A 20200918; EP 3753073 A1 20201223; US 2020358194 A1 20201112;  
WO 2019158543 A1 20190822

DOCDB simple family (application)  
**DE 102018103288 A 20180214**; CN 201980011415 A 20190213; EP 19706425 A 20190213; EP 2019053477 W 20190213;  
US 201916966046 A 20190213