

Title (en)  
PHASED ARRAY ANTENNA

Title (de)  
PHASENGESTEUERTE GRUPPENANTENNE

Title (fr)  
ANTENNE DE RÉSEAU EN PHASE

Publication  
**EP 3651269 A1 20200513 (EN)**

Application  
**EP 18204586 A 20181106**

Priority  
EP 18204586 A 20181106

Abstract (en)  
A phased array antenna comprises several antenna elements , a signal feed entry from or to which a signal is transmitted to or from the several antenna elements , and for each antenna element a corresponding phase shifting device , whereby the phase difference of each signal that is transmitted from the signal feed network to the respective antenna element or that is transmitted from the respective antenna element to the signal feed network is modified by the corresponding phase shifting device (5) in order to adjust the superposition of each signal according to the preferred direction of radiation of the phased array antenna . For each phase shifting device (5) a bias voltage is applied via two bias voltage electrode lines (16, 17) that are connected to a bias voltage driver (12). The bias voltage driver (12) comprises several output channel terminal pairs (15) with two output channel terminals (13, 14) whereby the bias voltage driver (12) is able to apply a tunable output channel voltage difference to each terminal pair (15). The two bias voltage electrode lines (16, 17) of each phase shifting device (5) are connected to a respective terminal pair (15).

IPC 8 full level  
**H01Q 3/44** (2006.01)

CPC (source: EP)  
**H01Q 3/44** (2013.01)

Citation (search report)  
• [X] EP 0887879 A1 19981230 - NEC CORP [JP]  
• [XI] US 2018287254 A1 20181004 - NAKANO FUMIKI [JP], et al

Cited by  
CN111781580A; CN113451718A; EP3783739B1

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)  
**EP 3651269 A1 20200513; EP 3651269 B1 20220921**

DOCDB simple family (application)  
**EP 18204586 A 20181106**