

Title (en)  
WIDE-ANGLE RADIATION LEAKY COAXIAL CABLE

Title (de)  
KOAXIALES STRAHLUNGSUNDICHTES WEITWINKELKABEL

Title (fr)  
CÂBLE COAXIAL À FUITE À RAYONNEMENT À GRAND ANGLE

Publication  
**EP 3890114 A4 20220622 (EN)**

Application  
**EP 18918415 A 20181123**

Priority  
CN 2018117275 W 20181123

Abstract (en)  
[origin: EP3890114A1] The present disclosure provides a wide-angle radiating leaky cable, from inner side to outer side, including an inner conductive body, an insulating layer, an outer conductive body, and an outer protective casing. A plurality of sections of slots are defined on wall of the outer conductive body, the sections of slots are equally spaced apart from each other. Each section of slots is composed of a plurality of slot modules. Each slot module includes a plurality of slot units independent from each other. The wide-angle radiating leaky cable of the present disclosure obtains wide-angle radiating through a distributed leakage mode. By including a plurality of independent slot units in each slot module, the problems of a small slot, a weak intensity of low-frequency radiation, and a narrow radial radiation angle at high frequency resulted from a high-frequency signal coverage, can be overcome. The slot unit of a specific design can reduce high-frequency attenuation, so that the leaky cable can be compatible with low-frequency coupling and high-frequency attenuation, has a good signal combining ability, and greatly reduce the cost of indoor signal coverage.

IPC 8 full level  
**H01Q 13/20** (2006.01)

CPC (source: CN EP RU)  
**H01P 3/06** (2013.01 - CN); **H01Q 13/20** (2013.01 - CN RU); **H01Q 13/203** (2013.01 - EP)

Citation (search report)

- [X1] CN 108390155 A 20180810 - ZHONGTIAN RF CABLE CO LTD
- [X1] US 5705967 A 19980106 - PIRARD WILLY [BE]
- [X1] CN 108808255 A 20181113 - ZHONGTIAN RADIO FREQUENCY CABLE CO LTD
- See references of WO 2020103150A1

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)  
**EP 3890114 A1 20211006**; **EP 3890114 A4 20220622**; CN 111009733 A 20200414; CN 111009733 B 20220930; RU 2019128556 A 20201014; RU 2019128556 A3 20210128; RU 2753842 C2 20210824; WO 2020103150 A1 20200528

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**EP 18918415 A 20181123**; CN 2018117275 W 20181123; CN 201911155415 A 20191122; RU 2019128556 A 20181123