

Title (en)
ANTENNA

Title (de)
ANTENNE

Title (fr)
ANTENNE

Publication
EP 4035224 A1 20220803 (DE)

Application
EP 20789466 A 20200925

Priority
• AT 3062019 A 20190926
• EP 2020076835 W 20200925

Abstract (en)
[origin: WO2021058712A1] The invention relates to an antenna which comprises at least one support element (T) and at least one antenna element (A), comprising at least one emitter (3) and optionally at least one director (4) and/or reflector (5), wherein antenna elements (A) of any kind are secured on the at least one support element (T) at defined positions. The invention is characterized in that the antenna comprises at least one linear support element (T) which is made of at least one tensegrity structure consisting of a cable element (1), a plurality of spring elements (2) for tightly tensioning the cable element (1) in a straight line, and optionally connection elements (V). Each of the plurality of spring elements (2) is selected independently of one another from a bent leaf spring, a leg spring, and a helical spring, each of which tensions a sub-piece of the cable element (1) and are arranged in an alternating manner without contacting one another over substantially the entire length of the cable element (1) in order to tightly tension the cable element (1) substantially in its entirety.

IPC 8 full level
H01Q 1/08 (2006.01); **H01Q 1/28** (2006.01); **H01Q 19/04** (2006.01); **H01Q 19/30** (2006.01); **H01Q 21/28** (2006.01)

CPC (source: AT EP)
E04B 1/19 (2013.01 - AT); **H01Q 1/08** (2013.01 - EP); **H01Q 1/288** (2013.01 - EP); **H01Q 15/20** (2013.01 - AT); **H01Q 19/04** (2013.01 - EP); **H01Q 19/30** (2013.01 - AT EP); **H01Q 1/28** (2013.01 - AT); **H01Q 21/28** (2013.01 - EP)

Citation (search report)
See references of WO 2021058712A1

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)
WO 2021058712 A1 20210401; AT 523050 A4 20210515; AT 523050 B1 20210515; EP 4035224 A1 20220803

DOCDB simple family (application)
EP 2020076835 W 20200925; AT 3062019 A 20190926; EP 20789466 A 20200925