

Title (en)
PILLBOX TYPE RADAR ANTENNA WITH INTEGRATED IFF ANTENNA

Publication
EP 0021252 B1 19840125 (DE)

Application
EP 80103252 A 19800611

Priority
DE 2925063 A 19790621

Abstract (en)
[origin: US4345257A] A primary radar antenna has a secondary radar antenna or an IFF antenna integrated therewith. Excellent properties with respect to compactness, radiation and frequency dependency are achieved by providing a bilevel pillbox antenna having radiation deflection on a cylindrical parabolic reflector from one interplate space to another. The lower interplate space has, in proximity of the primary radar signal radiator, which is arranged with its radiation center in the focal line of the parabolic reflector, an additional feed for in-coupling of the IFF signal. The antenna is particularly suited as a combined primary and IFF radar antenna for smaller vehicles.

IPC 1-7
H01Q 25/02; H01Q 5/00; H01Q 19/13

IPC 8 full level
H01Q 5/00 (2006.01); **H01Q 5/45** (2015.01); **H01Q 19/13** (2006.01); **H01Q 25/02** (2006.01)

CPC (source: EP US)
H01Q 5/45 (2015.01 - EP US); **H01Q 19/138** (2013.01 - EP US); **H01Q 25/02** (2013.01 - EP US)

Citation (examination)
US 2638546 A 19530512 - JEN CHU LAN, et al

Designated contracting state (EPC)
BE FR GB IT NL

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EP 80103252 A 19800611; DE 2925063 A 19790621; US 15173780 A 19800520