

Title (en)
Converter for receiving satellite broadcast

Title (de)
Konverter zum Empfang von Satellitenrundfunk

Title (fr)
Convertisseur de réception pour radiodiffusion par satellite

Publication
EP 1388908 A1 20040211 (EN)

Application
EP 03254614 A 20030724

Priority
JP 2002227406 A 20020805

Abstract (en)
A converter for receiving a satellite broadcast has a waveguide (1) for advancing a radio wave entering a waveguide tube as first and second linearly polarized waves perpendicular to each other, a first probe (9) and a second probe (6) projected into the tube of this waveguide and sequentially arranged along the advancing direction of the radio wave, a first short-circuited terminal (8) for reflecting the first linearly polarized wave and detecting the first linearly polarized wave by the first probe, a second short-circuited terminal (7) for reflecting the second linearly polarized wave and detecting the second linearly polarized wave by the second probe, and a reflecting pattern (5) (third short-circuited terminal) arranged between these first and second short-circuited terminals. When the guide wavelength of the used radio wave is set to λ , the distance between the first short-circuited terminal and the second short-circuited terminal is set to about $\lambda/2$, and the distance between the first short-circuited terminal and the reflecting pattern, and the distance between the reflecting pattern and the second short-circuited terminal are respectively set to about $\lambda/4$.
<IMAGE>

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H01P 1/161 (2013.01); **H01P 5/107** (2013.01)

Citation (search report)
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• [Y] US 5585768 A 19961217 - WEI SHIH-KUEI [TW]
• [A] EP 0552944 A1 19930728 - SHARP KK [JP]
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• [A] EP 1091443 A2 20010411 - ALPS ELECTRIC CO LTD [JP]
• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 437 (E - 0980) 19 September 1990 (1990-09-19)

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