Title (en)

Balancing network

Title (de)

Symmetrierglied

Title (fr)

Réseau d'équilibrage

Publication

EP 1132995 A1 20010912 (DE)

Application

EP 01301686 A 20010223

Priority

DE 10008551 A 20000224

Abstract (en)

[origin: DE10008551A1] The device has adjacent coupled lines with an asymmetrical connection gate and two symmetrical connection gates. It has three adjacent lines. One end of the center line forms the asymmetrical gate. The adjacent ends of the outer lines are at earth potential. Both other ends of the outer lines are at earth potential and the center line is free at that point. Each of the two outer lines is interrupted centrally with two symmetrical gate connections. The device consists of several adjacent coupled planar lines (1-3) with an asymmetrical connection gate (TU) and two symmetrical connection gates (TS1,TS2) . It has three adjacent lines, whereby one end of the center line forms the asymmetrical connection gate and the adjacent ends of the outer lines are at earth potential. Both other ends of the outer lines are likewise at earth potential and the center line is fee at that point. Each of the two outer lines is interrupted at the half way point and at this point has two connections for a symmetrical connection gate.

Abstract (de)

Ein sehr platzsparendes und mit geringem Aufwand herstellbares breitbandiges Symmetrierglied besteht aus drei nebeneinander verlaufenden Leitungen (1, 2, 3). Dabei bildet ein Ende (4) der mittleren (3) der drei Leitungen (1, 2, 3) ein unsymmetrisches Anschlußtor (TU), wobei die daneben liegenden Enden der beiden äußeren Leitungen (1, 2) auf Massepotential (5, 6) liegen. Die beiden anderen Enden der äußeren Leitungen (1, 2) liegen ebenfalls auf Massepotential (7), und die mittlere Leitung (3) endet dort mit einem Leerlauf. Jede der beiden äußeren Leitungen (1, 2) ist auf der halben Länge unterbrochen und weist an dieser Stelle zwei Anschlüsse (8, 9, 10, 11) für ein symmetrisches Anschlußtor (TS1, TS2) auf. <IMAGE>

IPC 1-7

H01P 5/10

IPC 8 full level

H01P 5/10 (2006.01)

CPC (source: EP)

H01P 5/10 (2013.01)

Citation (search report)

- [X] US 5428838 A 19950627 - CHANG KWO W [US], et al
- [X] SCHELLENBERG J ET AL: "LOW-LOSS, PLANAR MONOLITHIC BALUNS FOR K/KA-BAND APPLICATIONS", ANAHEIM, CA, JUNE 13 - 19, 1999,NEW YORK, NY: IEEE,US, 13 June 1999 (1999-06-13), pages 1733 - 1736, XP000890692, ISBN: 0-7803-5136-3

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