

Title (en)

Switched ring phase shifting circuit.

Title (de)

Phasenverschiebungsschaltung mit geschaltetem Ring.

Title (fr)

Circuit déphaseur en anneau commuté.

Publication

**EP 0434860 A1 19910703 (EN)**

Application

**EP 89123992 A 19891227**

Priority

US 28796988 A 19881221

Abstract (en)

A phase shifting circuit is disclosed comprising a plurality of bidirectional transmission line segments (31, 35, 37, 39) serially connected to form a ring. Input and output terminals (13, 15) are connected to opposite ends of the first of the transmission line segments (31) to form a first signal path through the ring. A second ring signal path, through the remainder of the serially connected transmission line segments (35, 37, 39), is selectively enabled to provide a predetermined phase shift at the output of the ring. By removing series semiconductor devices, the circuit permits higher power signals to be phase shifted over wide frequency ranges.

IPC 1-7

**H01P 1/185**

IPC 8 full level

**H01P 1/185** (2006.01)

CPC (source: EP)

**H01P 1/185** (2013.01)

Citation (search report)

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- [A] IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES. vol. 22, no. 6, June 1974, NEW YORK US pages 658 - 674; J.F. WHITE: "Diode phase shifters for array antennas"

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