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(54) **RADIO FREQUENCY POWER COMBINING**

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H03F 3/68 (2006.01)

(52) **U.S. Cl.** ..... **330/124 R**; 333/125; 333/33

(58) **Field of Classification Search** ..... 330/124 R; 333/100, 103, 106, 121, 126, 132, 12, 33, 333/125
See application file for complete search history.

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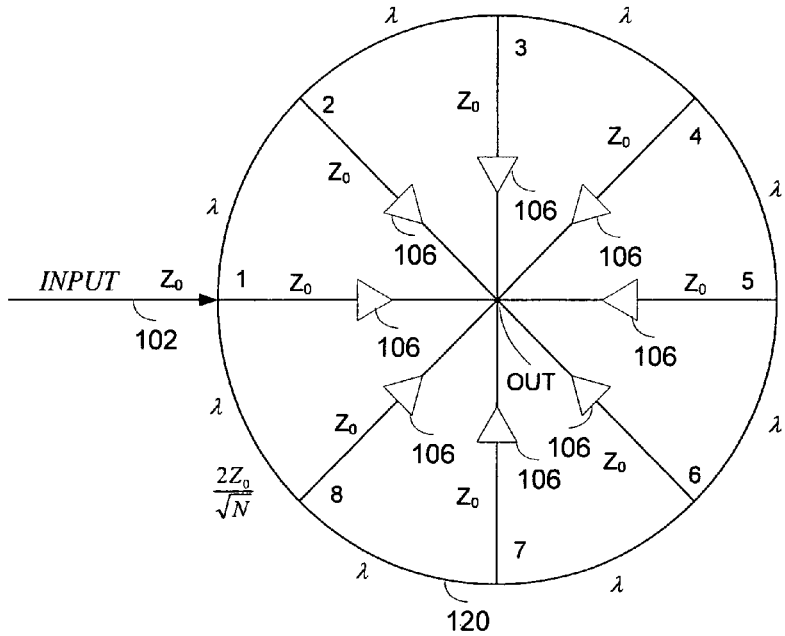
(57) **ABSTRACT**

Systems and methods for combining RF signals are disclosed. An input signal can be divided into equal parts going around a ring clockwise and counterclockwise. In one embodiment, the RF amplifiers are arranged on the inside of a ring structure, and output is combined approximately at the center of the ring.

13 Claims, 7 Drawing Sheets