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(54) Duplex filter

(57) The invention relates to a radio-frequency filter with a good temperature stability and power handling capacity. The invention can be applied in the pre-stages of portable mobile telephone apparatuses, for example. The receiver branch (2) of the filter construction according to the invention employs two filter stages (3, 4), the first of which (3) attenuates the signal connected to the

second filter stage, said second filter stage being a SAW filter (4). Said first filter stage (3) can be realized with a helix or dielectric resonator, for example. In a second embodiment of the invention, said first filter stage (3) is used to compensate for changes caused by the temperature dependence of the frequency response of the SAW filter (4).

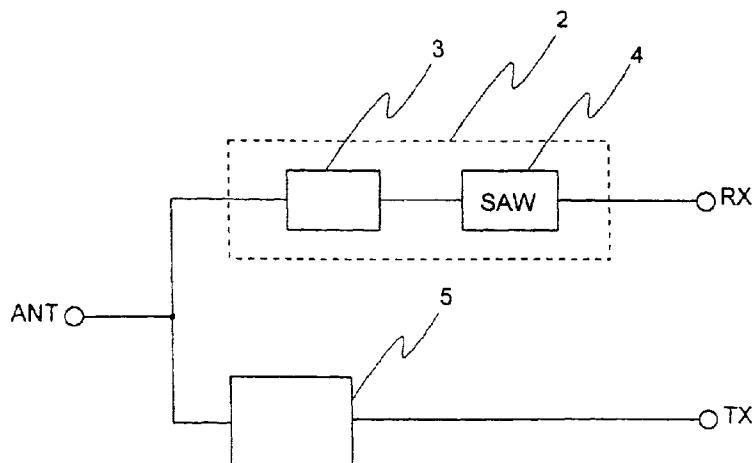


Fig. 2



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim			
A	EP 0 614 242 A (LK PRODUCTS OY) 7 September 1994 * column 3, line 15 - line 42 * * column 4, line 14 - line 40 * * column 4, line 56 - column 5, line 18 * * figures *	1-3	H03H9/72 H03H9/02 H03H9/64		
A	US 4 509 165 A (TAMURA YOSHIHARU) 2 April 1985 * column 2, line 65 - column 3, line 24 * * column 4, line 44 - line 56 * * figures *	1-3			
A	--- PATENT ABSTRACTS OF JAPAN vol. 008, no. 229 (E-273), 20 October 1984 & JP 59 108407 A (NIPPON DENKI KK), 22 June 1984, * abstract *	1			
A	--- EP 0 678 973 A (NIPPON ELECTRIC CO) 25 October 1995 * column 3, line 17 - line 44; figure 1 * -----	1	<table border="1"> <tr> <td>TECHNICAL FIELDS SEARCHED (Int.Cl.6)</td> </tr> <tr> <td>H03H</td> </tr> </table>	TECHNICAL FIELDS SEARCHED (Int.Cl.6)	H03H
TECHNICAL FIELDS SEARCHED (Int.Cl.6)					
H03H					
The present search report has been drawn up for all claims					
Place of search	Date of completion of the search	Examiner			
THE HAGUE	17 July 1998	D/L PINTA BALLE.., L			
CATEGORY OF CITED DOCUMENTS					
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document					
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document					