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(54) RF-filtering solution for a radio transmitter/receiver

(57) In this radio set filtering solution, all passive filtering elements in the transmission and reception branch are combined as an integrated filtering unit (25). The active radiofrequency components (11, 14, 17, 30) are connected to the ports of the filtering unit directly without separate impedance matching networks, since

the impedance of the ports is adjusted so that it is correct for the internal connections of the filtering unit. The filtering unit may contain a duplex filter (25a, 25b), in which case it is connected directly to the antenna (21). Also, by adjustment of the antenna port, a separate antenna-impedance matching network inside the filtering unit is avoided.

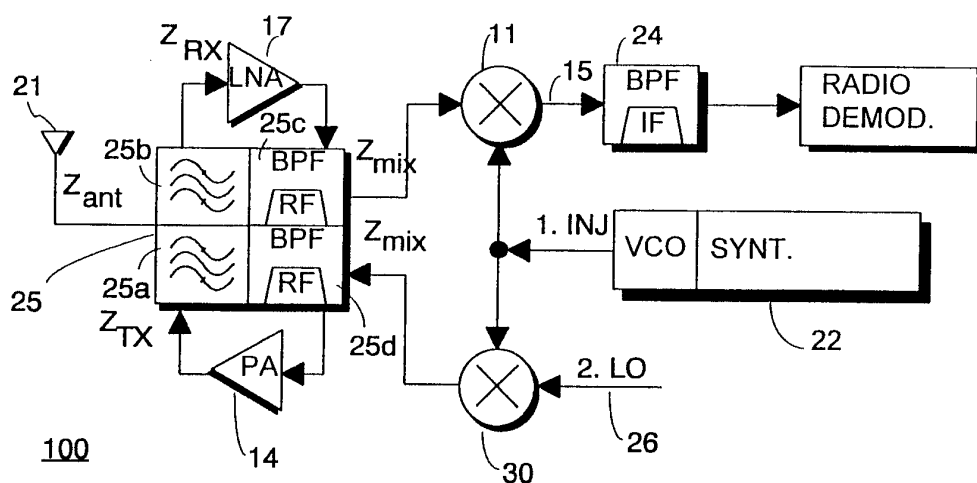


Fig. 2



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EUROPEAN SEARCH REPORT

Application Number
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Y	US 4 168 479 A (RUBIN DAVID) 18 September 1979 (1979-09-18) * column 1, line 20 - column 1, line 50; figure 1 * * column 2, line 12 - column 2, line 21 *	3-6, 10-12	
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Y	US 5 355 524 A (HIGGINS JR ROBERT J) 11 October 1994 (1994-10-11) * column 1, line 12 - column 1, line 43; figure 1 *	1-12	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H01P H04B
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 4 February 2000	Examiner La Casta Muñoa, S
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	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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