

ABSTRACT:

1. Radio receiver comprising analog dynamic compression and digital expansion.

2.1 The invention relates to a radio receiver (2) for a phase or frequency modulated information signal (e), comprising an analog receiving section (10) which provides a
5 non-linear dynamic compression (22), an analog-to-digital converter (25) and a digital signal processing section (30). As a result of the non-linear dynamic compression, non-linear distortions of the information signal occur.

2.2 For avoiding these non-linear distortions there is proposed that the digital signal
10 processing section (30) comprises an expansion section (29) for compensating for the non-linear dynamic compression (22) of the analog receiving section (10). For this purpose, inverse values are determined for each pair of sample values of digitized quadrature components (Id, Qd) of the information signal (e) which function values are
inversely proportional to the characteristic of the non-linear dynamic compression (22)
15 and which function values are used for the equalization in the expansion section (29).

2.3 radio receiver for mobile radio transmission systems.

3. Fig. 1.

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