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(71) Applicant (for all designated States except US): **WIDEX A/S** [DK/DK]; Ny Vestergaardsvej 25, DK-3500 Værløse (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ANDERSEN, Henning, Haugaard** [DK/DK]; Storkevanget 1, DK-3460 Birkerød (DK). **KLINKBY, Kristian, Tjalfe** [DK/DK]; Klosterbakken 3, DK-3500 Varlose (DK).

(74) Common Representative: **Rindorf, Hans, Jorgen**; WIDEX A/S, Ny Vestergaardsvej 25, DK-3500 Varlose (DK).

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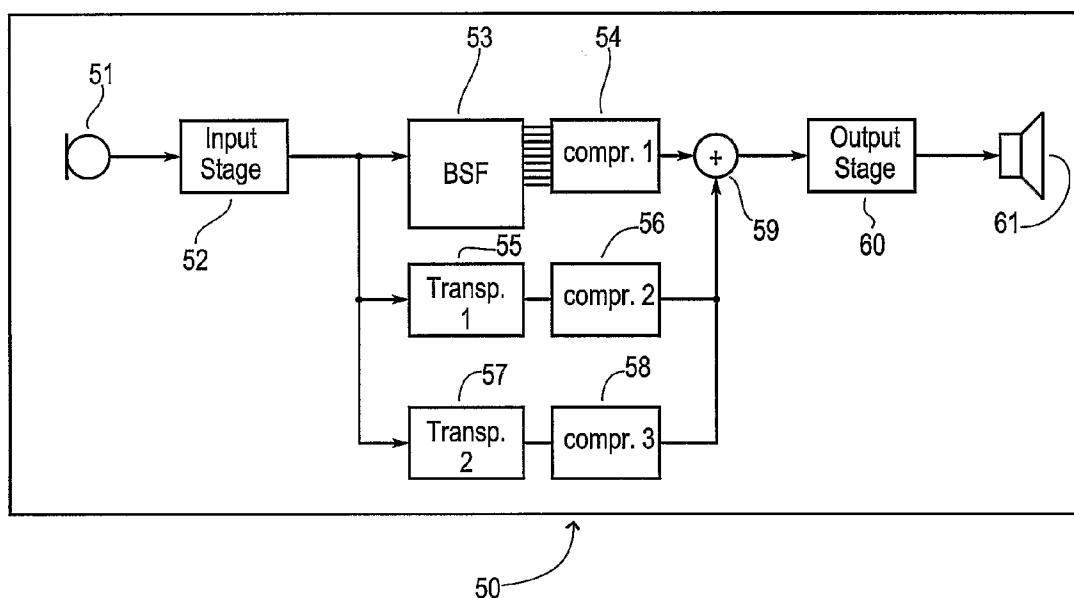
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(54) Title: HEARING AID WITH ENHANCED HIGH FREQUENCY REPRODUCTION AND METHOD FOR PROCESSING AN AUDIO SIGNAL



(57) Abstract: A hearing aid (50) comprises means (55, 56, 57, 58) for reproducing frequencies above the upper frequency limit of a hearing impaired user. The hearing aid (50) according to the invention comprises means (55, 57) for transposing higher bands of frequencies from outside the upper frequency limit of a hearing impaired user down in frequency based on a detected frequency in order to coincide with a lower band of frequencies within the frequency range perceivable by the hearing impaired user. The transposing means (55, 57) comprise an adaptive notch filter (15) for detecting a dominant frequency in the lower band of frequencies, adaptation means (16) controlled by the adaptive notch filter (15), an oscillator (3) controlled by the adaptation means (16), and a multiplier (4) for performing the actual frequency transporting of the signal.

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