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FÖRDERUNG DER ANGEWANDTEN FORSCHUNG**
E.V. [DE/DE]; Hansastraße 27c, 80686 München (DE).(72) Inventors: **LESCHKA, Florian**; Kaibachweg 2, 91341
Röttenbach (DE). **PLOGSTIES, Jan**; Sandleithe 39a,
90768 Fürth (DE).(74) Agents: **ZINKLER, Franz** et al.; Postfach 246, 82043
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(54) Title: AUDIO PROCESSOR FOR ORIENTATION-DEPENDENT PROCESSING

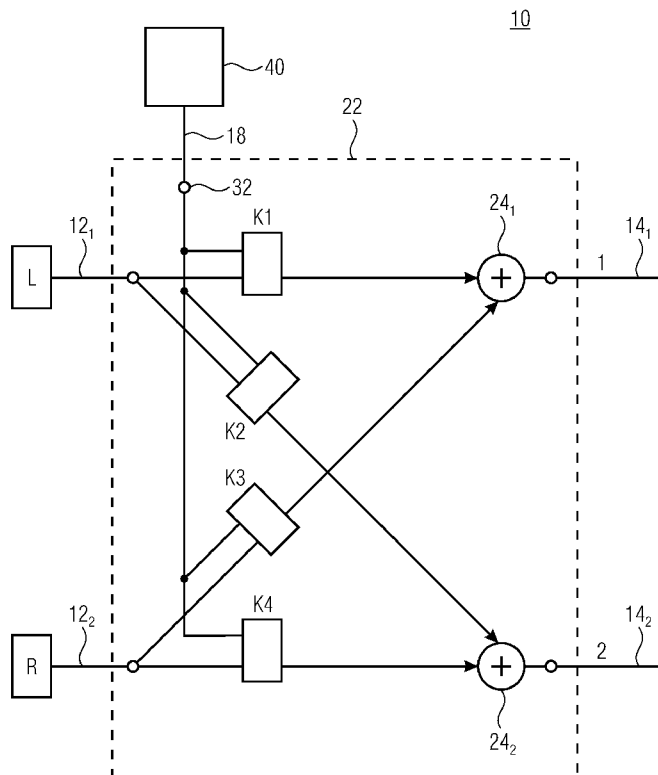


FIG 1

(57) Abstract: Audio processor (10) comprising an input interface, a detector interface (32), a mixer (22) and an output interface. The input interface receiving at least two input audio channels (12₁, 12₂), each input audio channel (12₁, 12) being associated with a predetermined reproduction position of at least two loudspeakers (26₁, 26₂) on at least one loudspeaker axis (16). The detector interface (32) receiving a position signal (18) indicating an information on a position of the at least two loudspeakers (26₁, 26₂) with respect to an ear axis (20) of a listener (28), wherein the ear axis (20) and the at least one loudspeaker axis (16) have an angle (36) to each other, being greater than 0° and lower than 180°. The mixer (22) mixing the at least two input audio channels (12₁, 12₂) to obtain the at least two output channels (14₁, 14₂) depending on the position signal (18), such that a portion of the second input audio channel (12₂) in the first output channel (14₁) for a first angle (36) between the ear axis (20) and the loudspeaker axis (16) is greater than a portion of the second input audio channel (12₂) in the first output channel (14₁) for a second angle (36) between the ear axis (20) and the loudspeaker axis (16), wherein the first angle (36) is greater than the second angle (36). Further a portion of the first input audio channel (12₁) in the second output channel (14₂) for the first angle (36) is greater than the portion of the first input audio channel (12₁) in the second output channel (14₂) for the second angle (36), wherein the first angle (36) is greater than the second angle (36). The output interface outputting the at least two output channels (14₁, 14₂) to the at least two loudspeakers.

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