

Title (en)

ACOUSTIC IRRADIATION INSTALLATION OF AN AUTOMOBILE

Publication

**EP 0509195 A3 19930203 (DE)**

Application

**EP 92101688 A 19920201**

Priority

DE 4105303 A 19910220

Abstract (en)

[origin: EP0509195A2] In a car (1), a sound output arrangement (5) is installed, the loudspeakers (12, 13) of which arranged in the area of the front seats (2, 3) are connected via a sound amplifier (17) and a delay arrangement (18), the delay of which can be set, and the loudspeakers (14, 15) of which arranged in the area of the rear seats (4) are connected via sound amplifiers (19) with adjustable gain, to the sound signal input (7R, 7L) of a sound reproducing device (6) of the sound output arrangement. The delay arrangements are set to a delay time (3 to 8 ms) at which there is not yet any impairment of the sound impression generated by the loudspeakers for the area of the front seats (2, 3) and the loudspeakers for the area of the rear seats and, on the other hand, the radiation level of the rear loudspeaker groups can be considerably lowered at the associated sound amplifiers (19) without impairing the sound impression in the area of the front seats. <IMAGE>

IPC 1-7

**H04R 5/02**

IPC 8 full level

**H04R 5/02** (2006.01); **H04S 5/02** (2006.01)

CPC (source: EP)

**H04S 5/02** (2013.01); **H04R 2499/13** (2013.01)

Citation (search report)

- [A] US 4769843 A 19880906 - IMAI HIROSHI [JP], et al
- [A] AT 379275 B 19851210 - NEUTRIK AG [LI]
- [A] FR 2601839 A1 19880122 - NIPPON TELEGRAPH & TELEPHONE [JP]

Cited by

EP3833046A4; US11516584B2

Designated contracting state (EPC)

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**EP 0509195 A2 19921021**; **EP 0509195 A3 19930203**; **EP 0509195 B1 19941221**; AT E116090 T1 19950115; DE 4105303 A1 19920827; DE 59201002 D1 19950202

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