

Title (en)  
Loudness limiter

Title (de)  
Lautstärkebegrenzung

Title (fr)  
Limiteur d'intensité sonore

Publication  
**EP 0836363 A1 19980415 (EN)**

Application  
**EP 96115687 A 19961001**

Priority  
EP 96115687 A 19961001

Abstract (en)  
For limiting the signal transmitted to the human ear in dependency on an incoming acoustical signal, there is provided a signal processor 3, the output of which acts on an output transducer and on a calculator unit 7 which calculates according to a preselected model the psychoacoustical entity loudness of the incoming acoustic signal. The loudness, thus calculated, is compared with a predetermined loudness level MAL and according to the result of such comparison, parameters at the processor unit 3 are varied so as to restrict the transmitted loudness on the MAL level. <IMAGE>

IPC 1-7  
**H04R 25/00**

IPC 8 full level  
**H04R 25/00** (2006.01)

CPC (source: EP)  
**H04R 25/356** (2013.01); **H04R 25/505** (2013.01)

Citation (search report)  
• [DY] EP 0661905 A2 19950705 - PHONAK AG [CH]  
• [Y] US 4475230 A 19841002 - FUKUYAMA KUNIHICO [JP], et al  
• [A] EP 0237203 A2 19870916 - BELTONE ELECTRONICS CORP [US]  
• [A] WO 9423548 A1 19941013 - CENTRAL INST DEAF [US]

Cited by  
EP2369859A2; US8260430B2; US8945216B2; US8019432B2; WO2009124035A3; US8213653B2; US8571675B2; US9392378B2; US10842418B2; US9744356B2; US10449357B2; US8190268B2; US8401656B2; US8694113B2

Designated contracting state (EPC)  
AT CH DE DK FR LI

DOCDB simple family (publication)  
**EP 0836363 A1 19980415; EP 0836363 B1 20030903**; AT E249134 T1 20030915; DE 69629814 D1 20031009; DE 69629814 T2 20040805; DK 0836363 T3 20031215

DOCDB simple family (application)  
**EP 96115687 A 19961001**; AT 96115687 T 19961001; DE 69629814 T 19961001; DK 96115687 T 19961001