

This document represents a compilation of patents and/or patent applications that I am part of, either as the inventor or co-inventor. Currently it consists of 9 patent families covering many countries world-wide.

I invented the first idea and thus initiated or inaugurated the following patents:

Patent family number 1, 32387512

Patent family number 4, 15566136

Patent family number 5, 32222659

Patent family number 6, 48310538

Patent family number 7, 51330850

Patent family number 8, 6484561

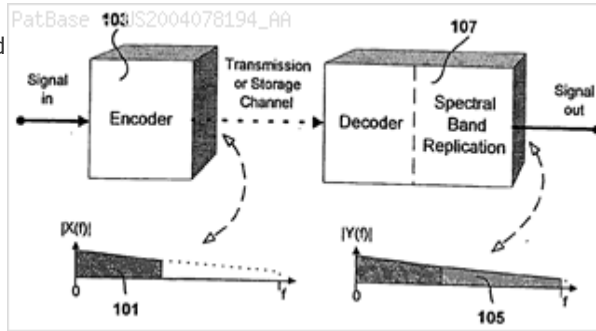
Patent family number 9, 2654153

Thus I initiated 7 of the 9 patent families I am part of as inventor. However, most of them my clever colleagues helped me to develop to working products, a fact that I am most grateful and proud of.

Sincerely
Lars Liljeryd

Title: SOURCE CODING ENHANCEMENT USING SPECTRAL-BAND REPLICATION

Abstract: Source: US2004078194A The present invention proposes a new method and apparatus for the enhancement of source coding systems. The invention employs bandwidth reduction (101) prior to or in the encoder (103), followed by spectral-band replication (105) at the decoder (107). This is accomplished by the use of new transposition methods, in combination with spectral envelope adjustments. Reduced bitrate at a given perceptual quality or an improved perceptual quality at a given bitrate is offered. The invention is preferably integrated in a hardware or software codec, but can also be implemented as a separate processor in combination with a codec. The invention offers substantial improvements practically independent of codec type and technological progress.



Family:

Publication number	Publication date	Application number	Application date
AT257987 E	20040115	AT19980921697T	19980609
AT303679 E	20050915	AT19980020094T	19980609
AU199874465 A1	19981230	AU19980074465	19980609
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BRPI9805989 B1	20091201	BR1998PI05989	19980609
CN1206816 C	20050615	CN19988000792	19980609
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CN1308916 C	20070404	CN200410100078	19980609
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DE69831435 D1	20051006	DE19986031435	19980609
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DK0940015 T3	20040426	DK19980921697T	19980609
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EP1367566 A2	20031203	EP20030020094	19980609
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PT1367566 T	20051130	PT20030020094T	19980609
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US2004078194 AA	20040422	US20030681105	20031009
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US2004125878 AA	20040701	US20030680224	20031008
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US6925116 BB	20050802	US20030680224	20031008
US7283955 BB	20071016	US20030682030	20031010
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Priority:

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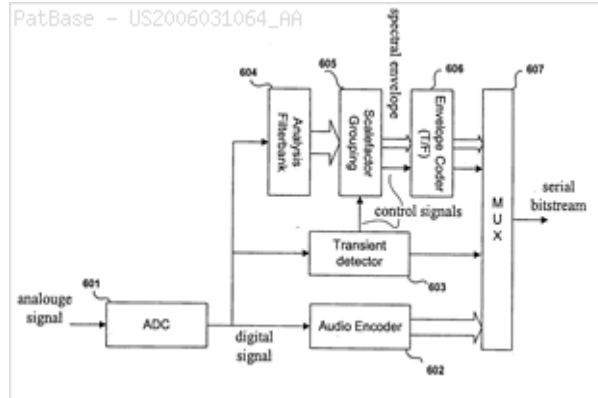
Probable Assignee: DOLBY INT AB

Inventor(s): LARS LILJERYD ; FREDRIK HENN ; KRISTOFER KJORLING ; EKSTRAND
 PER EKSTRAND

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU
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Title: EFFICIENT SPECTRAL ENVELOPE CODING USING VARIABLE TIME/FREQUENCY RESOLUTION AND TIME/FREQUENCY SWITCHING

Abstract: Source: US2006031064A The present invention provides a new method and an apparatus for spectral envelope coding. The invention teaches how to perform and signal compactly a time/frequency mapping of the envelope representation, and further, encode the spectral envelope data efficiently using adaptive time/frequency directional coding. The method is applicable to both natural audio coding and speech coding systems and is especially suited for coders using SBR [WO 98/57436] or other high frequency reconstruction methods.



Family:

Publication number	Publication date	Application number	Application date
AT271250 E	20040715	AT20000968271T	20000929
AT276569 E	20041015	AT20000904174T	20000126
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WO0126095 A1	20010412	WO2000SE01887	20000929

Priority:

BR2000PI09138	20000126	EP20000904174	20000126	EP20040000445	20000126
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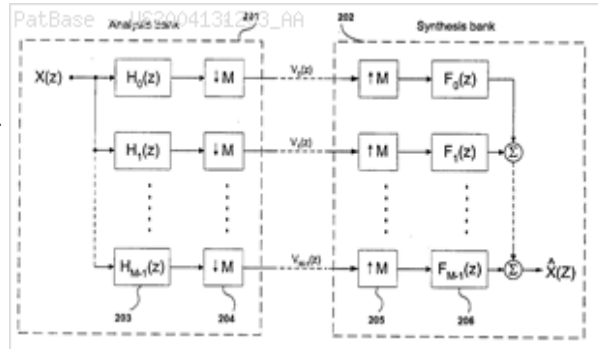
Probable Assignee: DOLBY INTERNATIONAL AB

Inventor(s): KJOERLING KRISTOFER; LILJERYD LARS; EKSTRAND PER; HENN
FREDRIK ;

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI
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SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU
ZA ZW

Title: SPECTRAL TRANSLATION/ FOLDING IN THE SUBBAND DOMAIN

Abstract: Source: US2004131203A The present invention relates to a new method and apparatus for improvement of High Frequency Reconstruction (HFR) techniques using frequency translation or folding or a combination thereof. The proposed invention is applicable to audio source coding systems, and offers significantly reduced computational complexity. This is accomplished by means of frequency translation or folding in the subband domain, preferably integrated with spectral envelope adjustment in the same domain. The concept of dissonance guard-band filtering is further presented. The proposed invention offers a low-complexity, intermediate quality HFR method useful in speech and natural audio coding applications.



Family:

Publication number	Publication date	Application number	Application date
AT250272 E	20031015	AT20010937069T	20010523
AU2001262836 AA	20011203	AU20010262836	20010523
AU200162836 A5	20011203	AU20010062836	20010523
BRPI0111362 A	20030520	BR2001PI11362	20010523
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JP2003534577 T2	20031118	JP20010587421T	20010523
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Priority:

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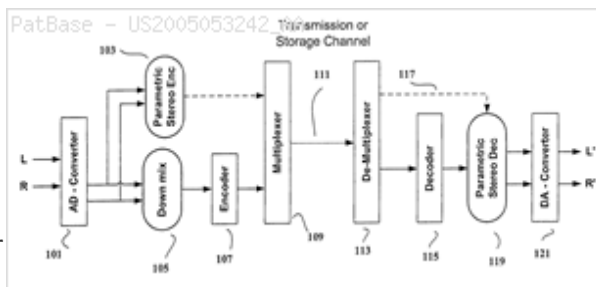
Assignee: DOLBY INTERNATIONAL AB

Inventor(s): LILJERYD LARS GUSTAF ; PER EKSTRAND ; PER RUNE ALBIN EKSTRAND ; KRISTOFER KJOERLING

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI
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 ZA ZW

Title: EFFICIENT AND SCALABLE PARAMETRIC STEREO CODING FOR LOW BITRATE APPLICATIONS

Abstract: Source: US2005053242A The present invention provides improvements to prior art audio codecs that generate a stereo-illusion through post-processing of a received mono signal. These improvements are accomplished by extraction of stereo-image describing parameters at the encoder side, which are transmitted and subsequently used for control of a stereo generator at the decoder side. Furthermore, the invention bridges the gap between simple pseudo-stereo methods, and current methods of true stereo-coding, by using a new form of parametric stereo coding. A stereo-balance parameter is introduced, which enables more advanced stereo modes, and in addition forms the basis of a new method of stereo-coding of spectral envelopes, of particular use in systems where guided HFR (High Frequency Reconstruction) is employed. As a special case, the application of this stereo-coding scheme in scalable HFR-based codecs is described.



Family:

Publication number	Publication date	Application number	Application date
AT305715 E	20051015	AT20020741611T	20020710
AT443909 E	20091015	AT20020016926T	20020710
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Priority:

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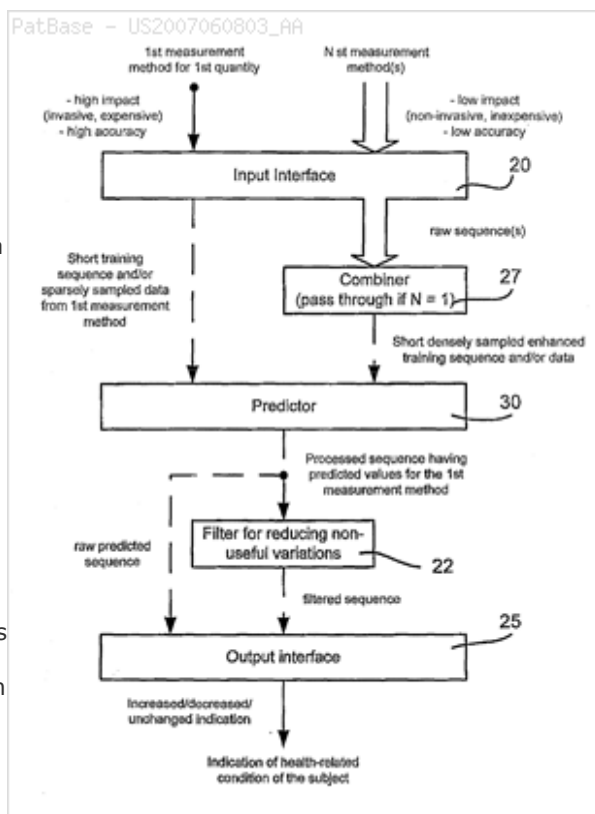
Probable Assignee: DOLBY INTERNATIONAL AB

Inventor(s): KJOERLING KRISTOFER; ENGDEGARD JONAS; HENN FREDRIK ROED N JONAS; LILJERYD LARS GUSTAF ;

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: METABOLIC MONITORING, A METHOD AND APPARATUS FOR INDICATING A HEALTH-RELATED CONDITION OF A SUBJECT

Abstract: Source: US2007060803A An apparatus for indicating a health-related condition of a subject has an input interface for receiving a sequence of samples of a first biological quantity derived by a first measurement method, the first measurement method being an invasive measurement and having a first impact on the subject, and for receiving a sequence of samples of a second biological quantity derived by a second measurement method, the second measurement method being a non-invasive measurement and having a second impact on the subject, wherein the first biological quantity gives a more accurate indication of the health-related condition of the subject than the second biological quantity, wherein the first biological quantity and the second biological quantity have a correlation to the health-related condition of the subject, and wherein the second impact is smaller than the first impact; a predictor for providing, for a certain time, for which no sample for the first biological quantity exists, an estimated value of the first biological quantity using samples for the first biological quantity and, as far as available, samples for the second quantity; and an output interface for outputting the estimated value or data derived from the estimated value so that an indication for the health-related condition of the subject is obtained.



Family:

Publication number	Publication date	Application number	Application date
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CA2556592 C	20140128	CA20052556592	20050225
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CN100446719 C	20081231	CN200580011429	20050225
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EP1718196 B1	20090408	EP20050715547	20050225
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IN02426KN2006 A	20070525	IN2006KN02426	20060825
JP2007523709 T2	20070823	JP20070500167T	20050225
JP2010148884 A2	20100708	JP20100022797	20100204
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JP4881448 B2	20120222	JP20100022797	20100204
RU2006134033 A	20080410	RU20060134033	20050225
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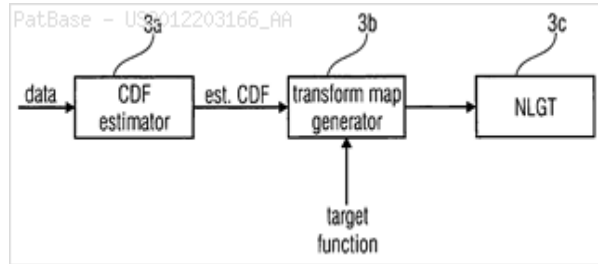
Probable Assignee: DIABETES TOOLS SWEDEN AB

Inventor(s): LIILJERYD LARS GUSTAF ; MAGNUSSON ULF FREDRIK

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH
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 NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ
 TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: APPARATUS AND METHOD FOR PROCESSING GLYCEMIC DATA

Abstract: Source: US2012203166A
 Apparatus for processing a glyceemic value, having: a transformer for transforming the glyceemic value into a transformed glyceemic value, wherein the transformer is configured for applying a transform rule to the glyceemic value, the transform rule having a combination of a first logarithmic term having a logarithm of the glyceemic value, and of a second linear term having a linear contribution of the glyceemic value, wherein the transform rule is such that, for each glyceemic value of a set of glyceemic values having more than one glyceemic value, the first logarithmic term and the second linear term both influence the corresponding transformed glyceemic value.



Family:

Publication number	Publication date	Application number	Application date
CA2770564 AA	20120208	CA20102770564	20100810
CA2770581 AA	20120208	CA20102770581	20100810
CA2770591 AA	20120208	CA20102770591	20100810
CN102549587 A	20120704	CN201080045550	20100810
CN102549587 B	20160803	CN201080045550	20100810
CN102549588 A	20120704	CN201080045554	20100810
CN102576381 A	20120711	CN201080045551	20100810
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EP2465059 A1	20120620	EP20100742489	20100810
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IN00303KN2012 A	20121012	IN2012KN00303	20120209
IN00310KN2012 A	20121012	IN2012KN00310	20120210
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Priority:

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Probable Assignee: DIABETES TOOLS SWEDEN AB

Inventor(s): RIBACK JACOB ; LJUHS MICHAEL ; LILJERYD LARS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF
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JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME
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PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG
TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: APPARATUS AND METHOD FOR PROCESSING A SET OF DATA VALUES USING A VARIABLE GLYCEMIC THRESHOLD

Abstract: An apparatus for processing a set of data values, where the data values are related to glycemic values at different times, comprises a mean value calculator (9a) for calculating a mean value of the set of data values or the subset of data values, a glycemic threshold calculator (8b) for calculating a glycemic threshold using a predetermined function mapping an input mean value to an output glycemic threshold, and a glycemic risk calculator (8c) for estimating, depending on the glycemic threshold, information on the risk level associated with the set or subset of data values, or a predictive alarm indicator (8d) for predicting future glycemic values, for comparing a future glycemic value to a calculated glycemic threshold and for generating an alarm indicating when a predicted future glycemic value violates the calculated glycemic threshold.

Classifications:

International (IPC 8-9):

G06F19/00 (Advanced/Invention)

CPC: G06F19/3456 G06F19/3437

European: G06F19/34H G06F19/34L

Family:

Publication number	Publication date	Application number	Application date
WO12079628 A1	20120621	WO2010EP69767	20101215

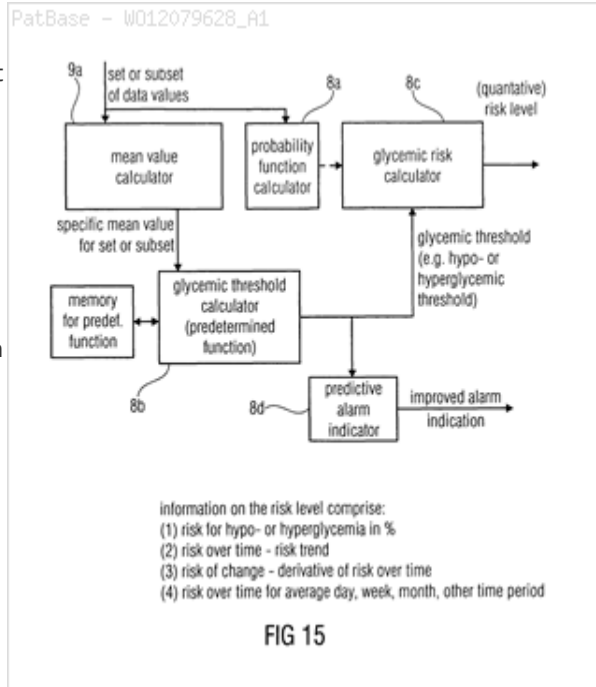
Priority:

WO2010EP69767 20101215

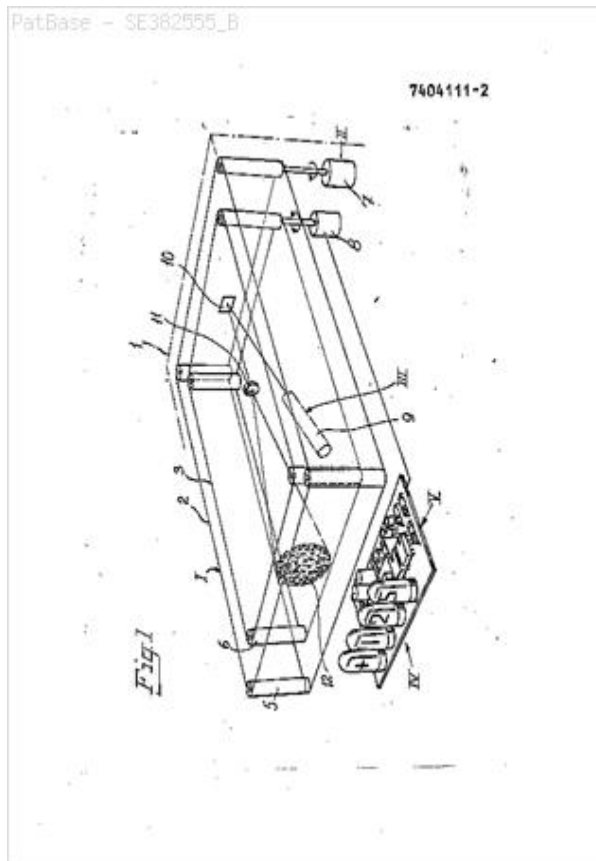
Assignee: DIABETES TOOLS SWEDEN AB

Inventor(s): (std): LILJERYD LARS GUSTAF ; RIBACK JACOB LARS FREDERIK

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW



Title: FORFARANDE FOR AUTOMATISK UNDERSOKNING AV BRYTNINGSFEL HOS OGON, MED UTNYTTJANDE AV KOHERENT MONOKROMATISKT LJUS SAMT ANORDNING FOR UTFORANDE AV FORFARANDET



Family:

Publication number	Publication date	Application number	Application date
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SE382555 C	19760520	SE19740004111	19740327
SE7404111 A	19750929	SE19740004111	19740327
SE7404111 L	19750929	SE19740004111	19740327

Priority:

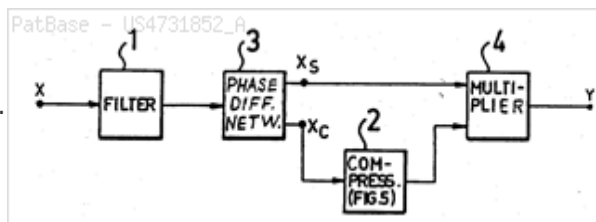
SE19740004111 19740327

Assignee(s): (std): LILJERYD L ; LILJERYD LARS

Inventor(s): (std): LILJERYD L ; LILJERYD LARS

Title: Method to electronically clarify sound or picture information and an arrangement to carry out the method

Abstract: Source: US4731852A A method for electronically clarifying sound or picture information and an arrangement for carrying out the method. It is previously known to generate harmonics and subharmonics of a useful signal within an audio or video frequency band and to add these to the useful signal in order to improve the perceptibility. Undesirable intermodulation products are generated, however, particularly the difference intermodulation products and the non-linear amplitude ratio between generated harmonic components related to the input signal. The suggested method eliminates substantially all of these undesirable intermodulation products completely and provides a linear amplitude ratio by forming two orthogonal components (X_S, X_C) from the useful signal (X), compressing one or both of these components and multiplying the result to form the harmonics ($2f_1, 2f_2$) which are thereafter mixed with the useful signal.



Family:

Publication number	Publication date	Application number	Application date
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SE444750 B	19860428	SE19850002762	19850604
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SE8502762 A0	19850604	SE19850002762	19850604
US4731852 A	19880315	US19860870540	19860604

Priority:

SE19850002762 19850604

Assignee: LILJERYD LARS GUSTAF

Inventor(s): LARS GUSTAF LILJERYD

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