

Title (en)
AUDIO CHANNEL SPATIAL TRANSLATION

Title (de)
AUDIOKANALUMSETZUNG

Title (fr)
MODULATION SPATIALE DE CANAL AUDIO

Publication
EP 1527655 B1 20061004 (EN)

Application
EP 03770229 A 20030806

Priority
• US 0324570 W 20030806
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Abstract (en)
[origin: CA2494454A1] Using an M:N variable matrix, M audio input signals, each associated with a direction, are translated to N audio output signals, each associated with a direction, wherein N is larger than M, M is two or more and N is a positive integer equal to three or more. The variable matrix is controlled in response to measures of: (1) the relative levels of the input signals, and (2) the cross-correlation of the input signals so that a soundfield generated by the output signals has a compact sound image in the nominal ongoing primary direction of the input signals when the input signals are highly correlated, the image spreading from compact to broad as the correlation decreases and progressively splitting into multiple compact sound images, each in a direction associated with an input signal, as the correlation continues to decrease to highly uncorrelated.

IPC 8 full level
H04S 3/00 (2006.01); **H04S 3/02** (2006.01); **H04R 5/00** (2006.01); **H04S 5/02** (2006.01); **H04S 7/00** (2006.01)

CPC (source: BR EP KR)
H04S 3/00 (2013.01 - KR); **H04S 3/02** (2013.01 - BR EP); **H04S 5/02** (2013.01 - KR)

Cited by
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AT E341923 T1 20061015; AU 2003278704 A1 20040311; AU 2003278704 B2 20090423; BR 0305746 A 20041207; BR PI0305746 B1 20180320; CA 2494454 A1 20040304; CA 2494454 C 20131001; CN 1672464 A 20050921; CN 1672464 B 20100728; DE 60308876 D1 20061116; DE 60308876 T2 20070301; DK 1527655 T3 20070129; EP 1527655 A2 20050504; EP 1527655 B1 20061004; ES 2271654 T3 20070416; HK 1073963 A1 20051021; IL 165941 A0 20060115; IL 165941 A 20100630; JP 2005535266 A 20051117; JP 4434951 B2 20100317; KR 100988293 B1 20101018; KR 20050035878 A 20050419; MX PA05001413 A 20050606; MY 139849 A 20091130; PL 373120 A1 20050808; TW 200404222 A 20040316; TW I315828 B 20091011

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