



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04B 1/66	A1	(11) International Publication Number: WO 97/29554 (43) International Publication Date: 14 August 1997 (14.08.97)
<p>(21) International Application Number: PCT/IB97/00049</p> <p>(22) International Filing Date: 24 January 1997 (24.01.97)</p> <p>(30) Priority Data: 96200274.7 ✓ 8 February 1996 (08.02.96) ✓ EP (34) Countries for which the regional or international application was filed: NL et al.</p> <p>(71) Applicant: PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 EA Eindhoven (NL).</p> <p>(71) Applicant (for SE only): PHILIPS NORDEN AB [SE/SE]; Kottbygatan 7, Kista, S-164 85 Stockholm (SE).</p> <p>(72) Inventors: TEN KATE, Warner, Rudolph, Theophile; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). VAN DE KERKHOF, Leon, Maria; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). ✓</p> <p>(74) Agent: VAN DER KRUK, Willem, L.; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).</p>	<p>(81) Designated States: BR, CN, CZ, IL, JP, KR, (SG), TR, VN, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>	

(54) Title: **7-CHANNEL TRANSMISSION, COMPATIBLE WITH 5-CHANNEL TRANSMISSION AND 2-CHANNEL TRANSMISSION**

(57) Abstract

A 7-channel encoder and corresponding decoder is disclosed for encoding a 7-channel signal into a transmission signal which is backwards compatible, so that prior art MPEG-1 2-channel decoders are capable of decoding the transmission signal into a compatible stereo signal, prior art MPEG-2 5-channel decoders are capable of decoding the transmission signal into a compatible 5-channel signal. Further, a 7-channel decoder is disclosed for decoding the transmission signal into a 7-channel signal.

