Title (en)
CODES, METHODS, AND APPARATUS FOR OPTICAL ENCODING AND DECODING

Title (de)
KODES,VERFAHREN,UND VORRICHTUNG ZUM OPTISCHEN KODIEREN UND DEKODIEREN

Title (fr)
CODES, PROCEDES ET DISPOSITIF DE CODAGE ET DE DECODAGE OPTIQUE

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Application
EP 99960431 A 19991117

Priority
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Abstract (en)
[origin: WO0029887A1] Encoders and decoders for applying composite codes to optical data signals include encoders (211, 231) and decoders (243, 261) for applying both subcodes and supercodes. The subcodes have a duration selected as less than or equal to an interchip duration or a chip duration of the supercodes. The encoders (211, 231) and decoders (243, 261) ("coders") include fiber Bragg gratings configured to encode or decode a subcode, a supercode, or a composite code. By coding with a subcode coder, a coder is reconfigurable by selecting different subcodes or supercodes. Communication systems and methods using composite codes are also described.

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IPC 8 full level
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Citation (search report)
• [X] EP 0526439 A1 19930203 - ERICSSON GE MOBILE COMMUNICAT [US]
• [A] US 5598154 A 19970128 - WILSON MICHAEL L [US], et al
• [A] US 4225935 A 19800930 - ZSCHEILE JR JOHN W, et al
• [A] WO 9836505 A1 19980820 - NOKIA TELECOMMUNICATIONS OY [FI], et al
• See references of WO 0029887A1

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WO 0029887 A1 20000525; **WO 0029887 A8 20000908**; CA 2351713 A1 20000525; CA 2351713 C 20060221; EP 1141756 A1 20011010; EP 1141756 A4 20060208; JP 2002530906 A 20020917

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