

Title (en)

Optical processing apparatus for electrical signals

Title (de)

Optische Verarbeitungsvorrichtung für elektrische Signale

Title (fr)

Dispositif de traitement optique de signaux électriques

Publication

EP 0603036 B1 19990728 (FR)

Application

EP 93402985 A 19931210

Priority

FR 9215085 A 19921215

Abstract (en)

[origin: EP0603036A1] Optical processing device for electrical signals including: - an optical source (L) emitting a multiwavelength beam (B1); - a modulator (MOD) modulating this beam; - an optical fibre (F) receiving the modulated beam (B2) and variously delaying the components corresponding to the various wavelengths; - a dispersive grating (H) dispersing in different directions wavelengths contained in the modulated beam (B3); - a spatial light-modulator (SLM) controlling the optical intensity level of various directions of the dispersed beam (B4); - an optical detection system (PD) receiving the beam (B5) processed by the spatial light-modulator (SLM). Application: transverse filter - UHF signal correlator. <IMAGE>

IPC 1-7

G06E 3/00

IPC 8 full level

G06E 3/00 (2006.01)

CPC (source: EP US)

G06E 3/005 (2013.01 - EP US)

Citation (examination)

Journal of the Optical Society of America A, 9 (1992), July, No.7, pp.1159-1166. J. Rosen et al.: "Electro-optic hologram generation on spatial light modulators".

Cited by

FR2722007A1

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

EP 0603036 A1 19940622; EP 0603036 B1 19990728; DE 69325784 D1 19990902; DE 69325784 T2 20000309; FR 2699295 A1 19940617; FR 2699295 B1 19950106; US 5428697 A 19950627

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