

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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