

Title (en)

PROGRAMMABLE MULTISTAGE LENSLESS OPTICAL DATA PROCESSING SYSTEM

Publication

EP 0215822 B1 19910515 (EN)

Application

EP 86901288 A 19851125

Priority

US 71306485 A 19850318

Abstract (en)

[origin: WO8605607A1] A programmable optical data processor is described as an apparatus for processing an optical data beam comprising a plurality of zero, one and two-dimensional modulators for spatially modulating the optical data beam, means for the lensless interconnection of each of the modulators to provide for the focusless transfer of the optical data beam between the modulators, and means for controlling the plurality of modulators so as to permit the programmable processing of the optical data beam. The optical data processor realized is physically solid and compact and is readily capable of performing a wide variety of optical computations.

IPC 1-7

G06E 3/00

IPC 8 full level

G02F 1/03 (2006.01); **G02F 3/00** (2006.01); **G06E 3/00** (2006.01)

CPC (source: EP)

G06E 3/005 (2013.01)

Citation (examination)

- Applied Optics, volume 23, no. 6, March 1984, New York, (US) Verber et al.: "Pipeline polynomial processors implemented with integrated optical components", see figure 6, page 819, left-hand column, line 14 - page 820, left-hand column, line 35
- Patent Abstracts of Japan, volume 7, no. 51 (P-179)(1196), 26 February 1983, & JP-A- 57198434 (YOKOGAWA)

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

WO 8605607 A1 19860925; DE 3582888 D1 19910620; EP 0215822 A1 19870401; EP 0215822 B1 19910515; IL 77387 A0 19860831; JP H0614161 B2 19940223; JP S62502070 A 19870813

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