

Title (en)

PROGRAMMABLE METHODS OF PERFORMING COMPLEX OPTICAL COMPUTATIONS USING DATA PROCESSING SYSTEM

Publication

EP 0215008 B1 19910327 (EN)

Application

EP 86900432 A 19851205

Priority

US 71306385 A 19850318

Abstract (en)

[origin: WO8605608A1] Methods of performing complex optical computations, preferably using a programmable optical data processor. The performance of optical computations is accomplished using a plurality of spatial light modulators to impress data onto a data beam, the method of performing the computations comprising the steps of: (a) applying data to a subset of the modulators so as to impress a corresponding data image onto the beam; and (b) applying uniform data to the remaining ones of the modulators so as to impress corresponding uniform data images onto the beam such that the computation performed is dependent on the data applied to the subset of the modulators.

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G06E 3/00

IPC 8 full level

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