Title (en)
METHOD OF FAST SIMULATION OF AN OPTICAL SYSTEM

Title (de)
VERFAHREN ZUR SCHNELLEN SIMULATION EINES OPTISCHEN SYSTEMS

Title (fr)
PROCEDE DE SIMULATION RAPIDE D'UN SYSTEME OPTIQUE

Publication
EP 3545426 A1 20191002 (FR)

Application
EP 17800533 A 20171117

Priority
- FR 1661363 A 20161122
- EP 2017079586 W 20171117

Abstract (en)
[origin: WO2018095812A1] Method implemented by computer for simulating an optical system (102) comprising the steps consisting in: a) defining a set of light rays or beams at the input (e) of the optical system, each said light ray or beam being represented by a first vector of parameters (101, x e); and b) calculating, for each said light ray or beam at the input of the optical system, a light ray or beams at the output (s) of the optical system, represented by a second vector of parameters (103, xs) by applying, to each said light ray or beam at the input of the optical system, one and the same nonlinear function, termed the transmission function (I), representative of the optical system as a whole. Computer program product for the implementation of such a method.

IPC 8 full level
G06F 17/18 (2006.01); **G02C 7/02** (2006.01)

CPC (source: EP US)
G02B 27/0012 (2013.01 - EP US); **G02C 7/028** (2013.01 - EP); **G06F 17/18** (2013.01 - EP US); **G06F 30/20** (2020.01 - US);
G06F 2111/10 (2020.01 - US)

Citation (search report)
See references of WO 2018095812A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
FR 3059117 A1 20180525; EP 3545426 A1 20191002; JP 2020506411 A 20200227; US 2020064625 A1 20200227;
WO 2018095812 A1 20180531

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FR 1661363 A 20161122; EP 17800533 A 20171117; EP 2017079586 W 20171117; JP 2019527459 A 20171117; US 201716461358 A 20171117