

Title (en)  
IMAGING SYSTEM AND METHODOLOGY EMPLOYING RECIPROCAL SPACE OPTICAL DESIGN

Title (de)  
ABBILDUNGSSYSTEM UND METHODOLOGIE MIT EINEM REZIPROK-RAUM-OPTIK-ENTWURF

Title (fr)  
SYSTEME ET METHODOLOGIE DE FORMATION D'IMAGES UTILISANT UNE CONFIGURATION OPTIQUE D'ESPACE RECIPROQUE

Publication  
**EP 1405346 A4 20081105 (EN)**

Application  
**EP 02756399 A 20020703**

Priority  
• US 0221392 W 20020703  
• US 90021801 A 20010706  
• US 16613702 A 20020610  
• US 18932602 A 20020702

Abstract (en)  
[origin: CA2453049A1] An imaging system (10) and methodology (600) is provided to facilitate optical imaging performance. The system (10) includes a sensor (20) having one or more receptors and an image transfer medium (30) to scale the sensor and receptors to an object field of view (54). A computer (824), memory (864), and/or display (864) associated with the sensor (20) provides storage and/or display of information relating to output from the receptors to produce and/or process an image, wherein a plurality of illumination sources (60) can also be utilized in conjunction with the image transfer medium (30). The image transfer medium (30) can be configured as a k-space filter (110) that correlates a pitch (116) associated with the receptors to a diffraction-limited spot (50) within the object field of view (54), wherein the pitch (116) can be unit-mapped to about the size of the diffraction-limited spot (50) within the object field of view (54).

IPC 8 full level  
**G02B 27/46** (2006.01); **H01L 27/00** (2006.01); **G02B 21/00** (2006.01); **G02B 21/06** (2006.01); **G02B 21/16** (2006.01); **G02B 21/36** (2006.01); **G02B 27/00** (2006.01); **G02B 27/40** (2006.01); **G02B 27/58** (2006.01); **G06K 9/76** (2006.01)

IPC 8 main group level  
**H01L** (2006.01)

CPC (source: EP KR)  
**G02B 21/082** (2013.01 - EP); **G02B 21/086** (2013.01 - EP); **G02B 21/361** (2013.01 - EP); **G02B 27/0075** (2013.01 - EP); **G02B 27/40** (2013.01 - KR); **G02B 27/58** (2013.01 - EP)

Citation (search report)  
• [XY] EP 1096295 A1 20010502 - ITT MFG ENTERPRISES INC [US]  
• [Y] US 4806774 A 19890221 - LIN LAWRENCE H [US], et al  
• [A] US 5316896 A 19940531 - FUKUDA HIROSHI [JP], et al  
• [A] WO 0104683 A1 20010118 - CELLAVISION AB [SE], et al  
• See references of WO 03005446A1

Citation (examination)  
US 6016210 A 20000118 - STAPPAERTS EDDY ALFONS [US]

Cited by  
US6827964B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
AU 2002322410 B2 20080207; AU 2002322410 B8 20080501; BR 0210852 A 20040824; CA 2453049 A1 20030116; CA 2453049 C 20111025; CN 100477734 C 20090408; CN 1550039 A 20041124; EP 1405346 A1 20040407; EP 1405346 A4 20081105; IL 159700 A0 20040620; IL 159700 A 20101230; JP 2005534946 A 20051117; JP 2009258746 A 20091105; KR 100941062 B1 20100205; KR 20040031769 A 20040413; MX PA04000167 A 20050606; NZ 530988 A 20060929

DOCDB simple family (application)  
AU 2002322410 A 20020703; BR 0210852 A 20020703; CA 2453049 A 20020703; CN 02817180 A 20020703; EP 02756399 A 20020703; IL 15970002 A 20020703; IL 15970004 A 20040104; JP 2003511312 A 20020703; JP 2009168954 A 20090717; KR 20047000181 A 20020703; MX PA04000167 A 20020703; NZ 53098802 A 20020703