

Title (en)

INTEGRAL FIELD LENS ILLUMINATION FOR VIDEO INSPECTION

Title (de)

INTEGRALE BELEUCHTUNG MIT FELDLINSE FÜR VIDEOINSPEKTION

Title (fr)

ECLAIREMENT INTEGRAL PAR LENTILLE DE CHAMP POUR CONTROLE VIDEO

Publication

EP 0777850 A4 19990203 (EN)

Application

EP 95921336 A 19950522

Priority

- US 9506435 W 19950522
- US 29668894 A 19940826

Abstract (en)

[origin: WO9607076A1] A system for illumination of discrete specimens in an optical inspection system (A) include an image acquisition system (C) and corresponding illumination system (B). A beam splitter (16) intercepts light from a light source (10) and communicates a portion of it to field lens (20). A field lens (20), in turn, communicates light to a specimen (24) disposed in a viewing area (22). Light reflected from the specimen (24) is communicated back through the field lenses (20), through the beam splitter (16) and ultimately to a video camera (34) from which a digitized image is obtained. In another embodiment, light reflected from the specimen (24) and propagated through the beam splitter (16) has communicated to a second beam splitter (30). Separated light therefrom is communicated to first and second video cameras (34, 36), thus allowing for imaging of separate portions of the specimen (24).

IPC 1-7

G01B 11/00; **G01N 21/00**

IPC 8 full level

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CPC (source: EP)

G01N 21/8806 (2013.01); **G01N 21/90** (2013.01)

Citation (search report)

- [XY] WO 9316373 A1 19930819 - TENCOR INSTRUMENTS [US]
- [Y] US 5163102 A 19921110 - YAMAZAKI MASAO [JP], et al
- [YA] PATENT ABSTRACTS OF JAPAN vol. 018, no. 333 (P - 1759) 23 June 1994 (1994-06-23)
- See references of WO 9607076A1

Designated contracting state (EPC)

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