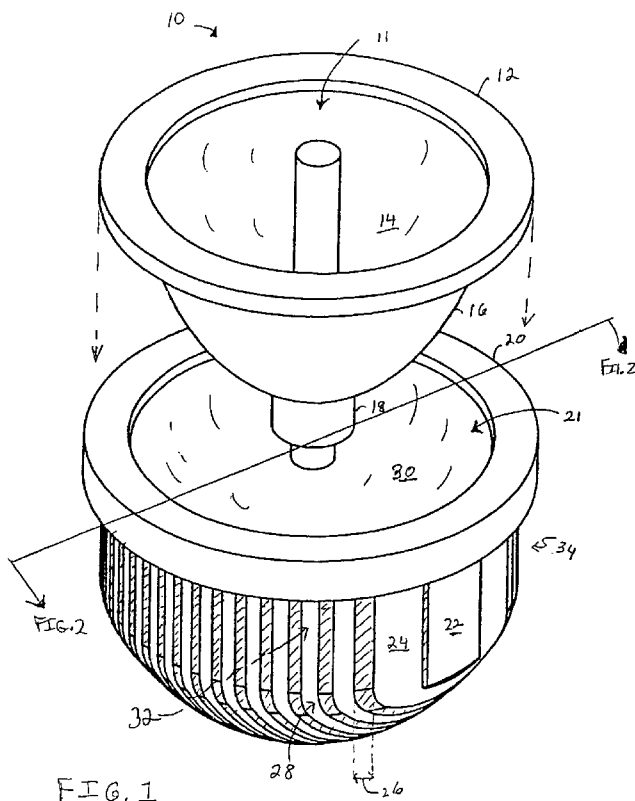




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- (71) **Applicant:** INFOCUS CORPORATION [US/US]; 27700 B SW Parkway Avenue, Wilsonville, OR 97070 (US).
- (72) **Inventors:** BIBER, Catharina, R.; 9701 S.W. London Court, Portland, OR 97223 (US). IMMEL, Eric; 1459 Holly Street, West Lynn, OR 97068 (US). PAYNE, Dave; 6680 S.W. 199th Court, Aloha, OR 97007 (US). EMERY, William, L.; 23597 S.W. Pinehurst, Sherwood, OR 97140 (US).
- (74) **Agents:** MCCOY, Anna, B. et al.; Kolisch Hartwell, P.C., 200 Pacific Building, 520 S.W. Yamhill Street, Portland, OR 97204 (US).
- (81) **Designated States (national):** AE (patent), AG (patent), AL (patent), AM (patent), AT (patent), AU (patent), AZ (patent), BA (patent), BB (patent), BG (patent), BR (patent), BY (patent), BZ (patent), CA (patent), CH (patent), CN (patent), CO (patent), CR (patent), CU (patent), CZ (patent), DE (patent), DK (patent), DM (patent), DZ (patent), EC (patent), EE (patent), ES (patent), FI (patent), GB (patent), GD (patent), GE (patent), GH (patent), GM (patent), HR (patent), HU (patent), ID (patent), IL (patent), IN (patent), IS (patent), JP (patent), KE (patent), KG (patent), KP (patent), KR (patent), KZ (patent), LC (patent), LK (patent), LR (patent), LS (patent), LT (patent), LU (patent), LV (patent), MA (patent), MD (patent), MG (patent), MK (patent), MN (patent), MW (patent), MX (patent), MZ (patent), NO (patent), NZ (patent), OM (patent), PH (patent), PL (patent), PT (patent), RO (patent), RU (patent), SC (patent), SD (patent), SE (patent), SG (patent), SK (patent), SL (patent), TJ (patent), TM (patent), TN (patent), TR (patent), TT (patent), TZ (patent), UA (patent), UG

[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR A LAMP HOUSING

(57) **Abstract:** A method and apparatus for a lamp housing (20) is provided that blocks light and dissipates heat. The lamp housing (20) encases or is integral to a reflector (12), and has an inner surface (30) that absorbs radiation emitted by the lamp burner and an outer surface (34) that allows for heat dissipation through radiation and convection means. The inner surface (30) absorbs radiation and the outer surface (34) is enlarged with a plurality of formations (22/24) for heat dissipation through radiation and convection means. The housing (20) also blocks stray visible light from escaping, thereby reducing or eliminating any need for light leakage systems.



(patent), UZ (patent), VC, VN (patent), YU (patent), ZA (patent), ZM (patent), ZW (patent).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/01093

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F21V 7/20, 29/00

US CL : 362/345, 294, 373

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 362/345, 294, 373, 218, 264, 293

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NoneElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 4,780,799 A (GROH) 25 October 1988 (25.10.1988), column 6, lines 28-66, column 7, lines 14-22, column 11, lines 48-60.	1-5, 10, 12, 13, 15-19, 21, 26, 28, 29, 31-36, 38, 39, 41-47, 52, 54, 55, 57 and 58. 6, 7, 11, 14, 20, 22, 23, 27, 30, 37, 40, 48, 49, 53 and 56.
Y	US 6,004,010 A (IMAGE et al) 21 December 1999 (21.12.1999), column 5, lines 30-41.	6, 20, 22 and 48.
Y	US 3,586,851 A (RUDOLPH) 22 June 1971 (22.06.1971), column 5, lines 14-23.	7, 23 and 49.
Y	US 4,489,367 A (HERRON et al) 18 December 1984 (18.12.1984), column 2, lines 26-30.	11, 27, 37 and 53.
Y	US 5,367,444 A (BORNHORST et al) 22 November 1994 (22.11.1994), column 10, lines 10-27.	14, 30, 40 and 56.
A	US 4,733,335 A (SERIZAWA et al) 22 March 1988 (22.03.1988), column 6, lines 28-34.	8, 9, 24, 25, 50 and 51.

☒ Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

06 May 2003 (06.05.2003)

Date of mailing of the international search report

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Alan Cariaga *Diana Smith*
Telephone No. (703)308-0956

INTERNATIONAL SEARCH REPORT

PCT/US03/01093

Continuation of B. FIELDS SEARCHED Item 3:

BRS-EAST, search terms: cold mirror, dielectric, dichroic, fins, convection, anodized, peening, knurling, stray visible light, paint, coat, contain explosion