



US006169361B1

(12) **United States Patent**
Boffito et al.

(10) **Patent No.:** **US 6,169,361 B1**
(45) **Date of Patent:** **Jan. 2, 2001**

- (54) **OXYGEN DISPENSER FOR HIGH PRESSURE DISCHARGE LAMPS**
- (75) Inventors: **Claudio Boffito**, Rho; **Bennie Josephus De Maagt**, Eindhoven, both of (IT)
- (73) Assignees: **U.S. Philips Corporation**, New York, NY (US); **S.A.E.S. Getters S.p.A.**, Lainate (IT)
- (*) Notice: Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.
- (21) Appl. No.: **09/091,812**
- (22) PCT Filed: **Nov. 20, 1997**
- (86) PCT No.: **PCT/IT97/00288**
§ 371 Date: **Jun. 23, 1998**
§ 102(e) Date: **Jun. 23, 1998**
- (87) PCT Pub. No.: **WO98/22975**
PCT Pub. Date: **May 28, 1998**
- (30) **Foreign Application Priority Data**
Nov. 22, 1996 (IT) MI96A2449
- (51) **Int. Cl.⁷** **H01J 17/26**

- (52) **U.S. Cl.** **313/564; 313/553; 313/562; 313/563**
- (58) **Field of Search** **313/637, 25, 545-53, 313/561, 562, 563, 564, 654**

- (56) **References Cited**
U.S. PATENT DOCUMENTS
4,499,396 2/1985 Fohl et al. .
4,918,352 4/1990 Hess et al. .
5,986,405 * 11/1999 Maagt et al. 313/637

* cited by examiner
Primary Examiner—Vip Patel
(74) *Attorney, Agent, or Firm*—Akin, Gump, Strauss, Hauer & Feld, L.L.P.

(57) **ABSTRACT**
It is described an oxygen dispenser for use in high pressure discharge lamps. The oxygen dispenser of the invention comprises a metallic container capable of retaining solid materials but allowing an easy passage of gas, containing silver oxide. Several possible types of dispenser are proposed. The dispenser has shown capable of avoiding the formation of black deposits coming from hydrocarbons inside the lamps.

11 Claims, 3 Drawing Sheets

