US008940045B2

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

(10) **Patent No.: US 8,940,045 B2**
(45) **Date of Patent: Jan. 27, 2015**

(54) **INTRAOCULAR LENS**

(75) Inventors: **Anand Doraiswamy**, Goleta, CA (US); **Jensen Buck**, Goleta, CA (US); **Daniel Hamilton**, Napa, CA (US)

(73) Assignee: **Santen Pharmaceutical Co., Ltd.**, Osaka (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 250 days.

(21) Appl. No.: **12/954,424**

(22) Filed: **Nov. 24, 2010**

(65) **Prior Publication Data**

US 2012/0130487 A1 May 24, 2012

(51) **Int. Cl.**
A61F 2/16 (2006.01)
A61F 2/00 (2006.01)

(52) **U.S. Cl.**
CPC ***A61F 2/16*** (2013.01); *A61F 2002/009* (2013.01); *A61F 2002/1681* (2013.01); *A61F 2002/1683* (2013.01)
USPC **623/6.49**; 623/6.37; 623/6.43

(58) **Field of Classification Search**
USPC 623/6.38–6.55, 6.16–6.17
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,806,382	A	2/1989	Goldberg et al.	
4,813,956	A	3/1989	Gupta	
4,923,468	A	5/1990	Wild	
4,969,897	A	11/1990	Kalb	
5,049,156	A	9/1991	Higashi et al.	
5,716,403	A	2/1998	Tran et al.	
6,179,870	B1	1/2001	Sourdille et al.	
6,494,911	B2 *	12/2002	Cumming	623/6.37
6,666,887	B1 *	12/2003	Callahan et al.	623/6.25
D685,477	S *	7/2013	Doraiswamy et al.	D24/157
D688,800	S *	8/2013	Doraiswamy et al.	D24/157
D688,801	S *	8/2013	Doraiswamy et al.	D24/157
D689,611	S *	9/2013	Doraiswamy et al.	D24/157
D691,273	S *	10/2013	Doraiswamy et al.	D24/157
8,758,435	B2 *	6/2014	Doraiswamy et al.	623/6.43
2003/0033013	A1 *	2/2003	Callahan et al.	623/6.21
2003/0204257	A1	10/2003	Southard	
2005/0015143	A1 *	1/2005	Willis et al.	623/6.36
2005/0125056	A1 *	6/2005	Deacon et al.	623/6.21
2006/0064162	A1	3/2006	Klima	
2008/0109077	A1	5/2008	Bos	

FOREIGN PATENT DOCUMENTS

EP	0 438 043	7/1991
EP	1457170 A1	9/2004
WO	WO/2005/055875 A2	6/2005

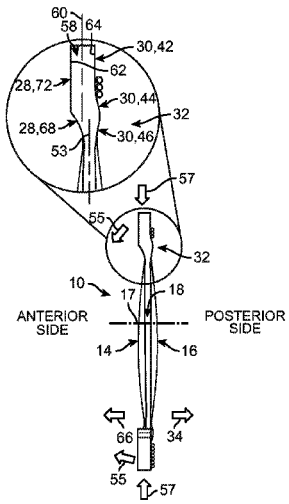
OTHER PUBLICATIONS

U.S. Appl. No. 29/460,792, filed Jul. 15, 2013, Anand Doraiswamy et al.
U.S. Appl. No. 29/460,805, filed Jul. 15, 2013, Anand Doraiswamy et al.
U.S. Appl. No. 29/464,872, filed Aug. 21, 2013, Anand Doraiswamy et al.

(Continued)

Primary Examiner — Paul Prebilic
(74) *Attorney, Agent, or Firm* — Squire Patton Boggs (US) LLP

(57) **ABSTRACT**

An intraocular lens comprises an optic and at least two haptics, each of which comprises a step feature that protrudes from a posterior surface of the haptic to prevent posterior capsular opacification.

15 Claims, 5 Drawing Sheets