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(54) **METHOD OF DRY DYE DELIVERY FOR STAINING THE EYE**

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CPC ***A61K 49/006*** (2013.01); ***A61K 49/0043*** (2013.01); *A61K 9/0048* (2013.01)

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,510,339	A *	4/1996	Gleich	A61K 31/165 514/171
6,547,770	B2 *	4/2003	Carlsson et al.	604/294
7,281,801	B2 *	10/2007	Wang	A61B 3/101 351/205
2003/0211043	A1 *	11/2003	Korb	A61K 9/0048 424/9.6
2009/0130024	A1 *	5/2009	Narayanan et al.	424/9.6
2014/0373832	A1 *	12/2014	Zeng	A61K 9/12 128/200.23

* cited by examiner

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(57) **ABSTRACT**

A device and method for staining the eye of a patient in need of the same includes the introduction, onto the surface of the eye, of a dry powder form at a dye suitable for staining the eye. The dry powder form of the dye is introduced onto the surface of the eye without the use of a substrate at or near the eye's surface.

5 Claims, 4 Drawing Sheets