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(12) **United States Patent**
Turner

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- (54) **OPEN EYE SEWING NEEDLE**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 138 days.

2,526,104	A	10/1950	Yamamoto	
2,595,758	A	5/1952	Brown et al.	
2,721,014	A *	10/1955	Allen	223/102
2,741,409	A	4/1956	Orthwine	
2,872,092	A	2/1959	Sehlow	
3,031,116	A	4/1962	Hunter et al.	
3,258,938	A *	7/1966	Hofmann	66/119
3,525,460	A	8/1970	Hendy	
3,531,030	A *	9/1970	Doiron	223/102
3,581,688	A	6/1971	Ketterer	

(Continued)

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D05B 69/00 (2006.01)

(52) **U.S. Cl.** **112/221**; 223/102

(58) **Field of Classification Search** 112/221, 112/222, 224, 223, 225-227, 49, 98, 202, 112/281, 321; 223/102; 163/1-7
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

102,380	A	4/1870	Donaldson et al.
790,120	A	5/1905	Garrett
1,054,117	A	2/1913	Henderson
1,341,357	A	5/1920	Careaga
2,190,792	A	2/1940	Lippard

FOREIGN PATENT DOCUMENTS

GB 2210389 A 6/1989
(Continued)

OTHER PUBLICATIONS
Easy-Threading/Calyx Eye Needle; product date unknown; shown on web page: http://www.entaco.com/products_needles.php.

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(57) **ABSTRACT**

An open eye needle including an elongated portion, a tip portion and an open eye portion. The tip portion is attached to the elongated portion. The open eye portion is attached to the elongated portion. The open eye portion includes a tongue portion, an eye region and a channel. The eye region is defined by the tongue portion. The channel extends around the tongue portion and intersects the eye portion. The channel includes a first channel portion and a second channel portion that extends from the first channel portion. The first channel portion is oriented at an acute angle with respect to the second channel portion. The second channel portion is in communication with the eye region.

16 Claims, 2 Drawing Sheets

