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Khangura

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(54) **APPARATUS FOR USER HAVING TEETH**

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CPC ***A61C 19/066*** (2013.01); ***A46B 9/045*** (2013.01); ***A61C 19/063*** (2013.01)

(58) **Field of Classification Search**
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,769,652	A	11/1973	Rainer	
4,224,710	A	9/1980	Solow	
5,175,901	A *	1/1993	Rabinowitz	A46B 9/045 15/167.1
6,223,376	B1 *	5/2001	Lee	A46B 9/026 15/22.1
6,353,956	B1	3/2002	Berge	
8,745,802	B2	6/2014	Steur	
2003/0176891	A1	9/2003	Frederic	
2003/0178885	A1 *	9/2003	Weihrauch	A46B 9/045 300/21
2011/0072605	A1	3/2011	Steur	
2011/0154595	A1	6/2011	Hill	
2012/0183919	A1 *	7/2012	Levine	A61C 19/063 433/29
2012/0318289	A1	12/2012	Sahoo	
2013/0014331	A1	1/2013	Garner et al.	
2013/0067665	A1	3/2013	Sowinski	
2013/0333126	A1	12/2013	Miller	
2014/0093836	A1	4/2014	Wolpo	

FOREIGN PATENT DOCUMENTS

CA	2609556	11/2006
CA	2738902	4/2010
CA	2748419	7/2010
CA	2785085	6/2011
WO	2013098718	7/2013

* cited by examiner

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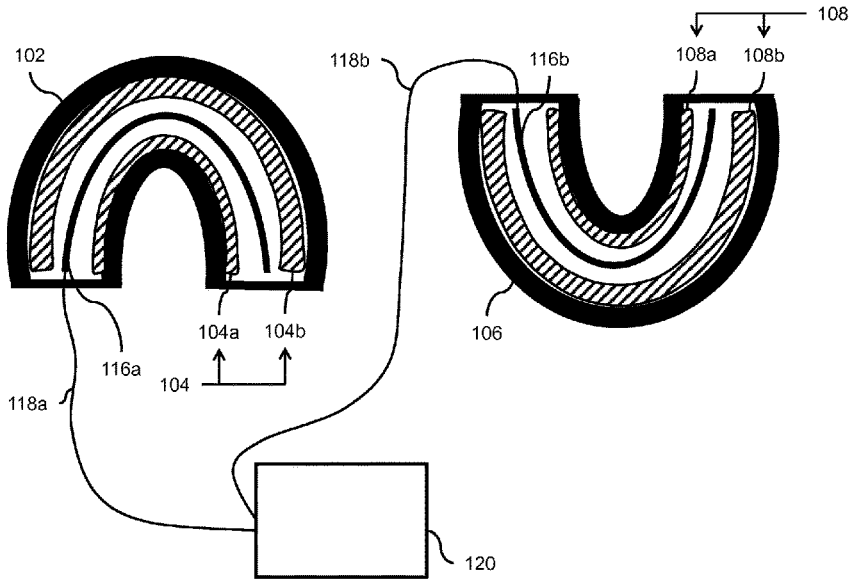
(57) **ABSTRACT**

Apparatus is for user having teeth. Apparatus includes upper oral delivery mouthpiece and lower oral delivery mouthpiece each configured to be positioned in the mouth of the user. Upper oral delivery mouthpiece includes upper bendable assembly configured to urge upper oral delivery mouthpiece to conform, at least in part, to a curvature of the upper teeth of the user. Lower oral delivery mouthpiece includes lower bendable assembly configured to urge lower oral delivery mouthpiece to conform, at least in part, to a curvature of the lower teeth of the user.

19 Claims, 12 Drawing Sheets