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**Carroll et al.**

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(54) **LED-BASED LIGHT BULB WITH MULTIPLE STEMS**

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(73) Assignee: **Forever Bulb, LLC**, Grantsburg, WI (US)

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(52) **U.S. Cl.**  
USPC ..... **D26/2**

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

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,162,696	A	11/1992	Goodrich	
5,806,965	A	9/1998	Deese	
6,220,722	B1	4/2001	Begemann	
6,343,871	B1	2/2002	Yu	
6,367,949	B1	4/2002	Pederson	
6,462,475	B1	10/2002	Lee	
6,739,734	B1	5/2004	Hulgan	
7,086,756	B2	8/2006	Maxik	
D529,202	S	9/2006	Nagai et al.	
D531,741	S *	11/2006	Takahashi	D26/2
D534,665	S	1/2007	Egawa et al.	
D535,038	S *	1/2007	Egawa et al.	D26/2
D538,953	S	3/2007	Mama	

D541,440	S *	4/2007	Feit	D26/2
7,217,956	B2	5/2007	Daniels et al.	
7,259,030	B2	8/2007	Daniels et al.	
D553,267	S *	10/2007	Yuen	D26/2
7,318,661	B2	1/2008	Catalano	
7,319,293	B2	1/2008	Maxik	
D574,091	S *	7/2008	Sun	D26/2
D581,066	S	11/2008	Van Dyn Hoven	
D582,577	S *	12/2008	Yuen	D26/2
D601,278	S	9/2009	Takahashi	
7,588,351	B2	9/2009	Meyer	
D617,915	S	6/2010	Wada et al.	
7,726,836	B2	6/2010	Chen	
7,736,020	B2	6/2010	Baroky et al.	

(Continued)

**FOREIGN PATENT DOCUMENTS**

DE	102007056874	A1	5/2009
JP	2005310561	A	11/2005
WO	2005090852	A2	9/2005
WO	2009149263	A1	12/2009

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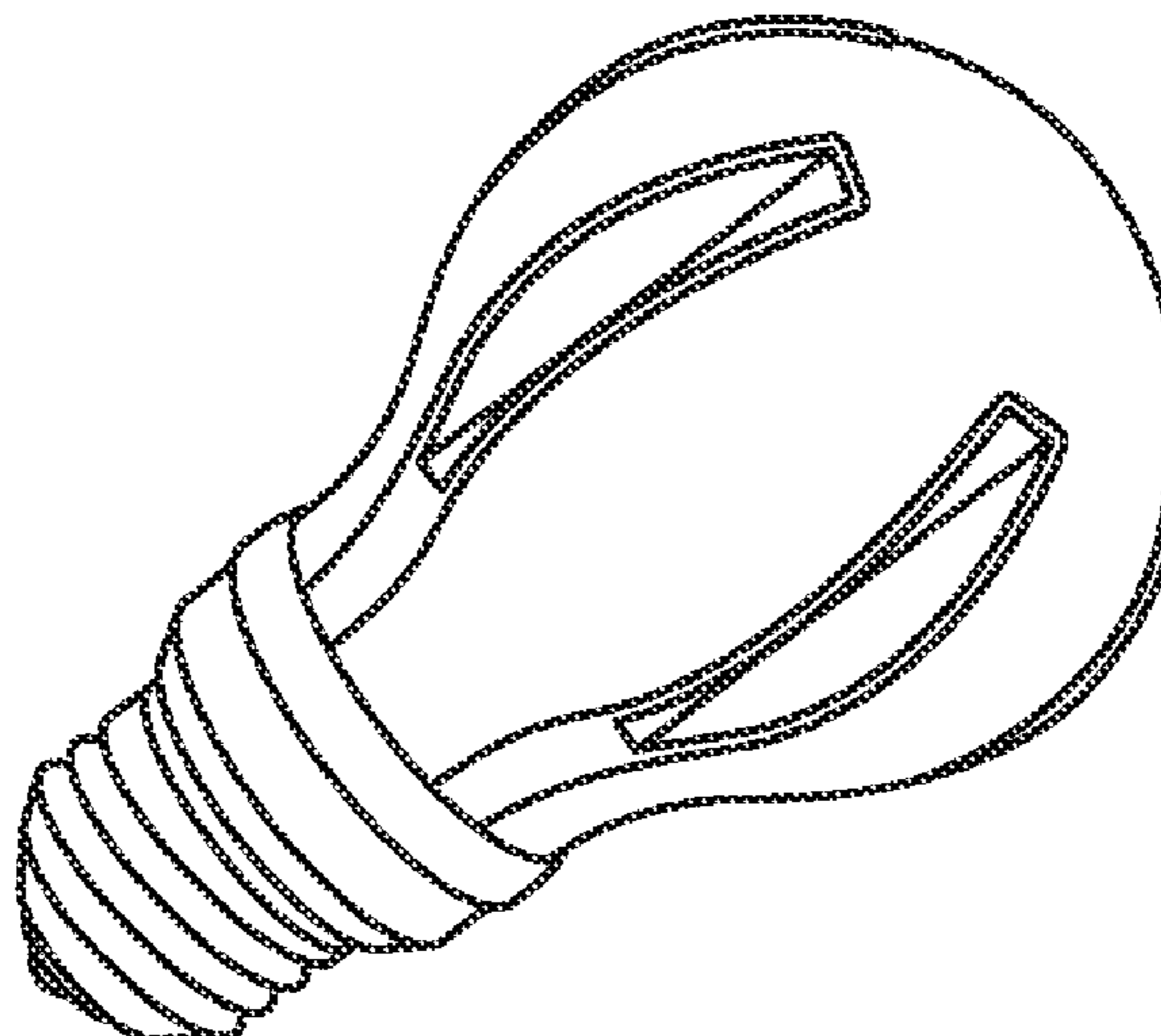
(57) **CLAIM**

The ornamental design for an LED-based light bulb with multiple stems, as shown and described herein.

**DESCRIPTION**

FIG. 1 is a perspective view of an LED-based light bulb with multiple stems in accordance with the present disclosure; FIG. 2 is a bottom plan view of the light bulb of FIG. 1; FIG. 3 is a top plan view of the light bulb of FIG. 1; FIG. 4 is a front plan view of the light bulb of FIG. 1; FIG. 5 is a rear plan view of the light bulb of FIG. 1; and, FIG. 6 is a side view of the light bulb of FIG. 1.

**1 Claim, 6 Drawing Sheets**



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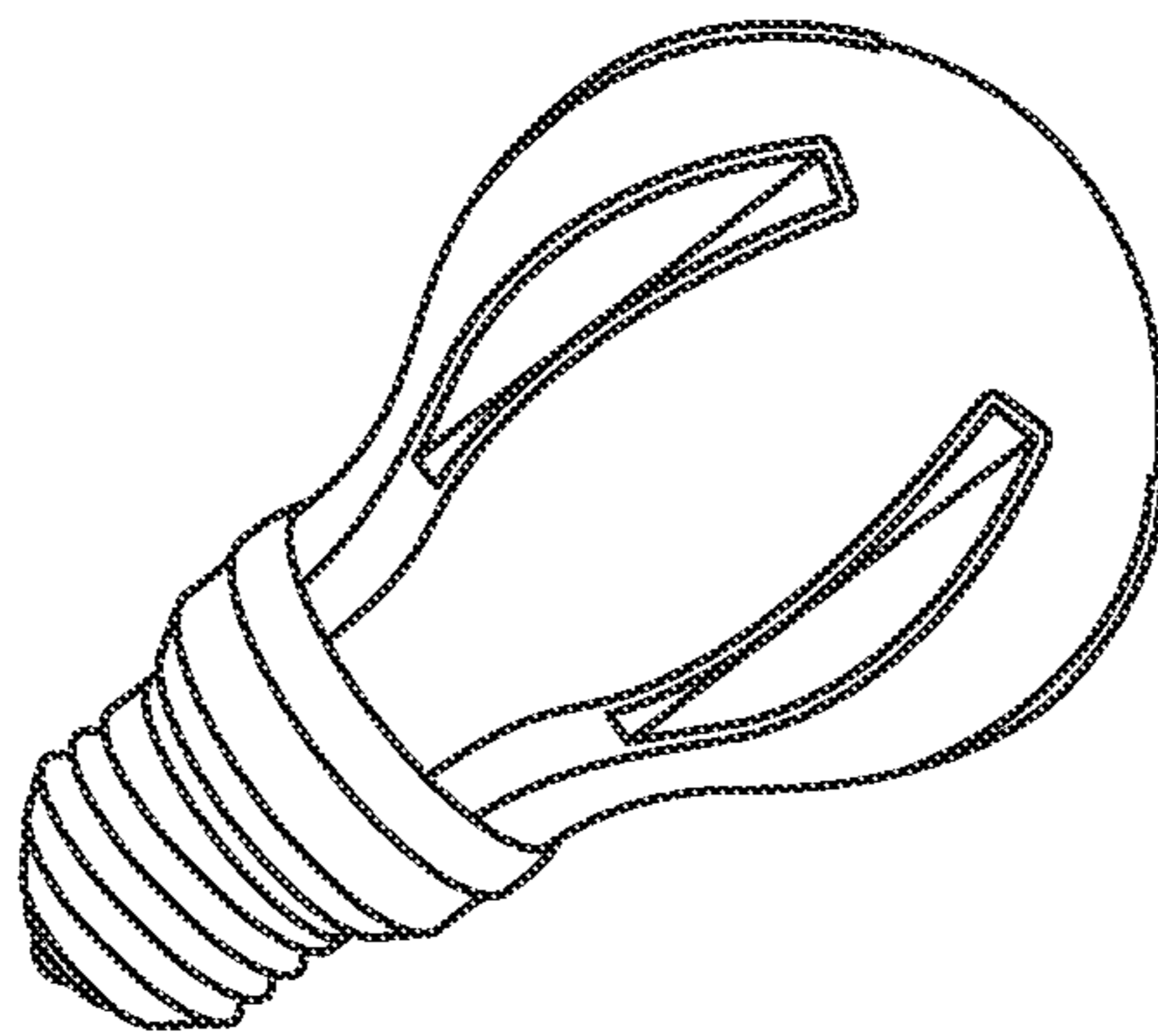
**References Cited**

U.S. PATENT DOCUMENTS

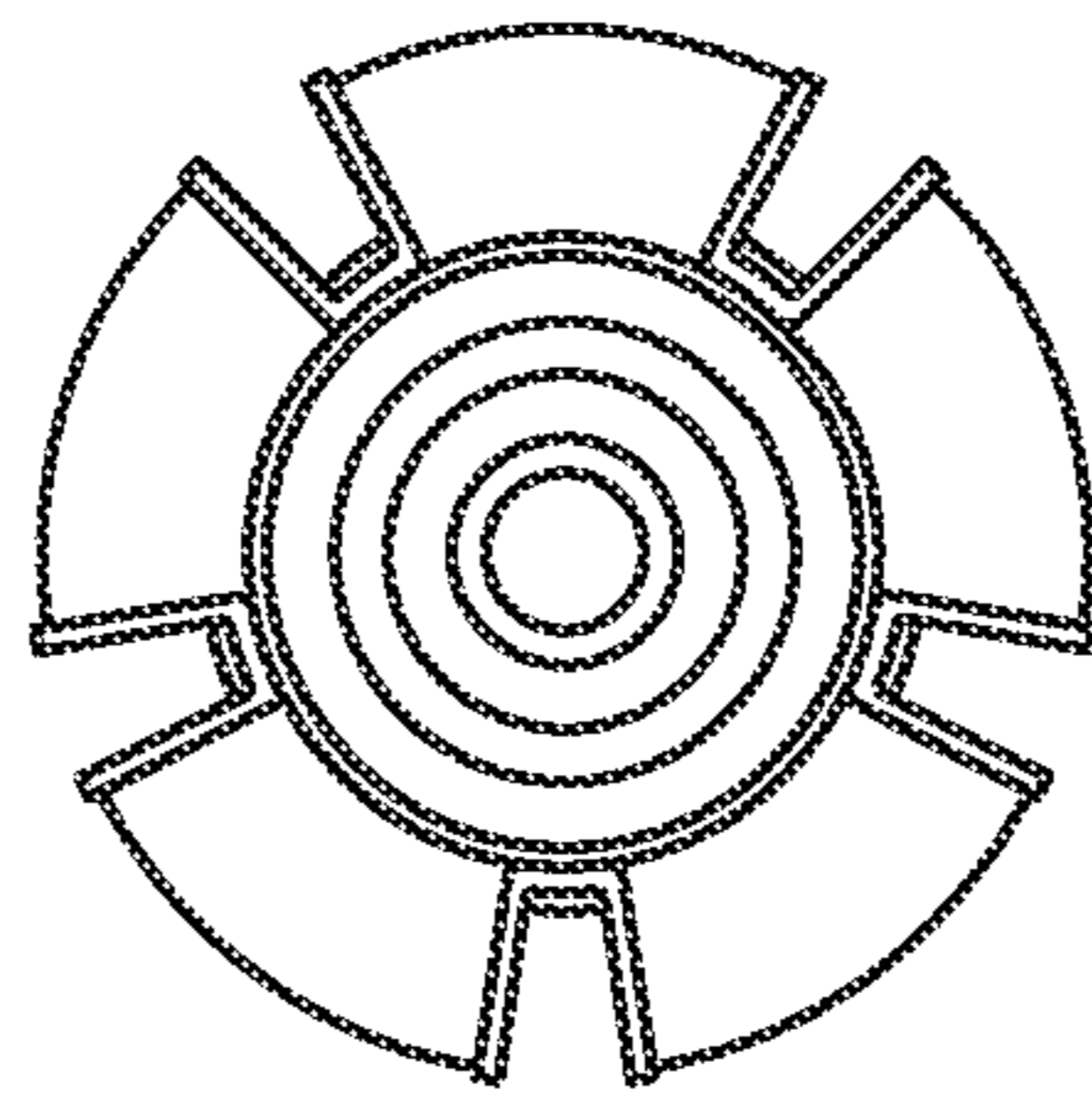
D633,226 S 2/2011 Katsaros  
D654,602 S 2/2012 Carroll et al.  
D668,797 S \* 10/2012 Xu ..... D26/2  
2002/0021573 A1 2/2002 Zhang  
2002/0176253 A1 11/2002 Lee  
2003/0031015 A1 2/2003 Ishibashi  
2003/0090910 A1 5/2003 Chen  
2003/0117803 A1 6/2003 Chen  
2003/0174499 A1 9/2003 Bohlander  
2004/0037080 A1 2/2004 Luk et al.  
2005/0030761 A1 2/2005 Burgess

2005/0174769 A1 8/2005 Yong et al.  
2005/0207152 A1 9/2005 Maxik  
2005/0207159 A1 9/2005 Maxik  
2006/0012997 A1 1/2006 Catalano et al.  
2006/0221606 A1 10/2006 Dowling  
2006/0285325 A1 12/2006 Ducharme et al.  
2006/0291256 A1 12/2006 Cobbler  
2007/0103914 A1 5/2007 McCaffrey  
2007/0291482 A1 12/2007 Baroky et al.  
2008/0024070 A1 1/2008 Catalano et al.  
2008/0285279 A1 11/2008 Ng et al.  
2009/0086492 A1 4/2009 Meyer  
2010/0301353 A1 12/2010 Pabst et al.

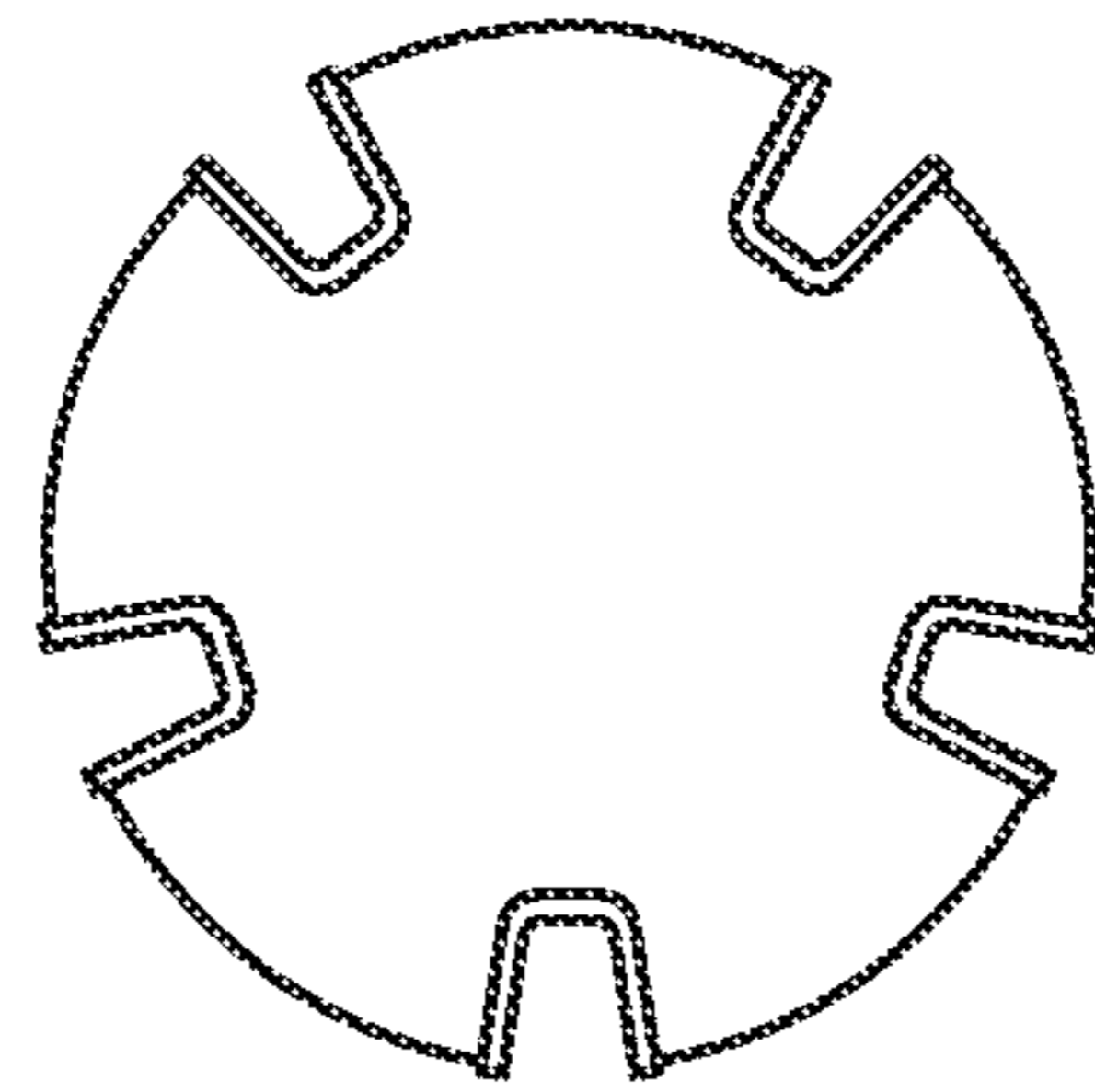
\* cited by examiner



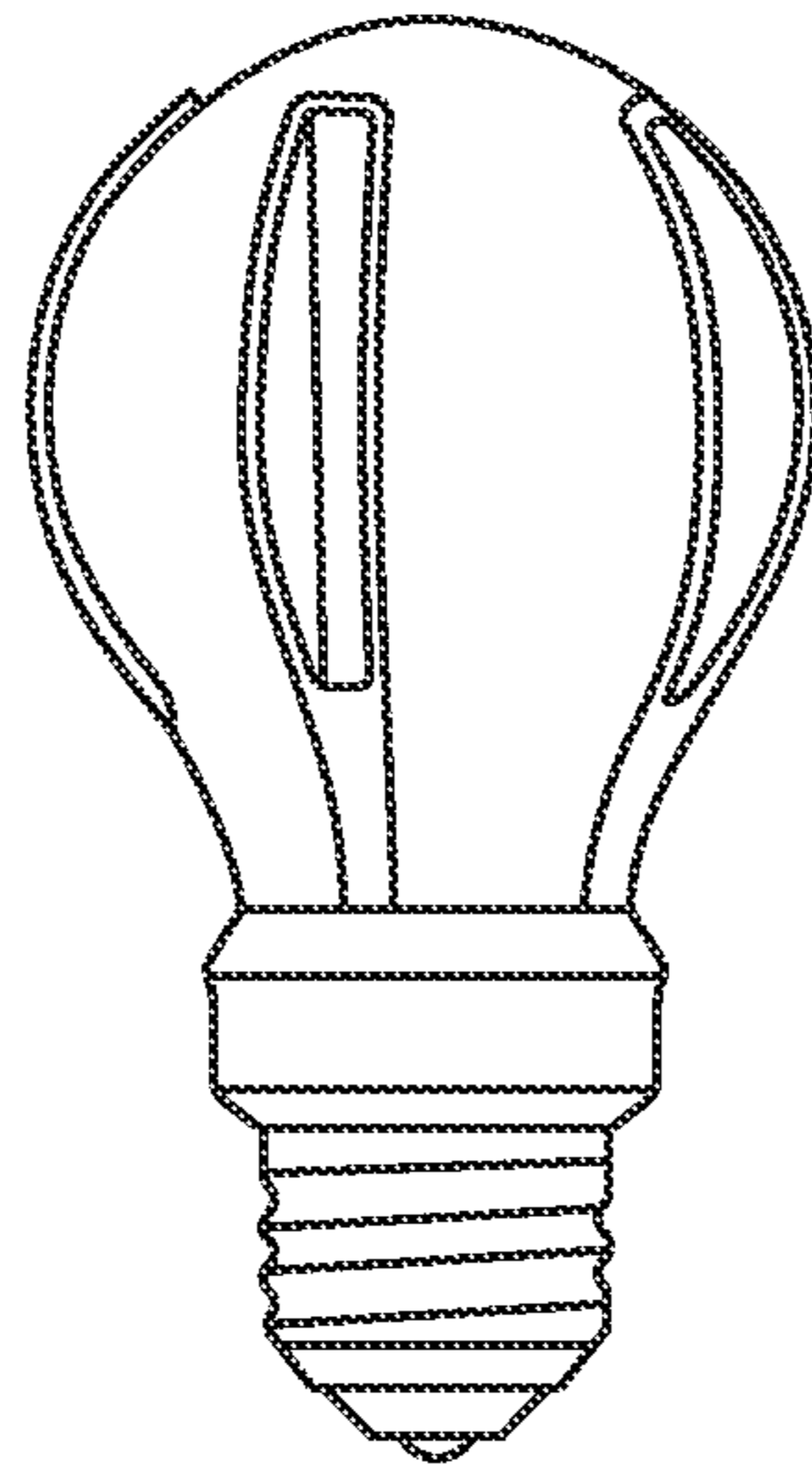
**Fig. 1**



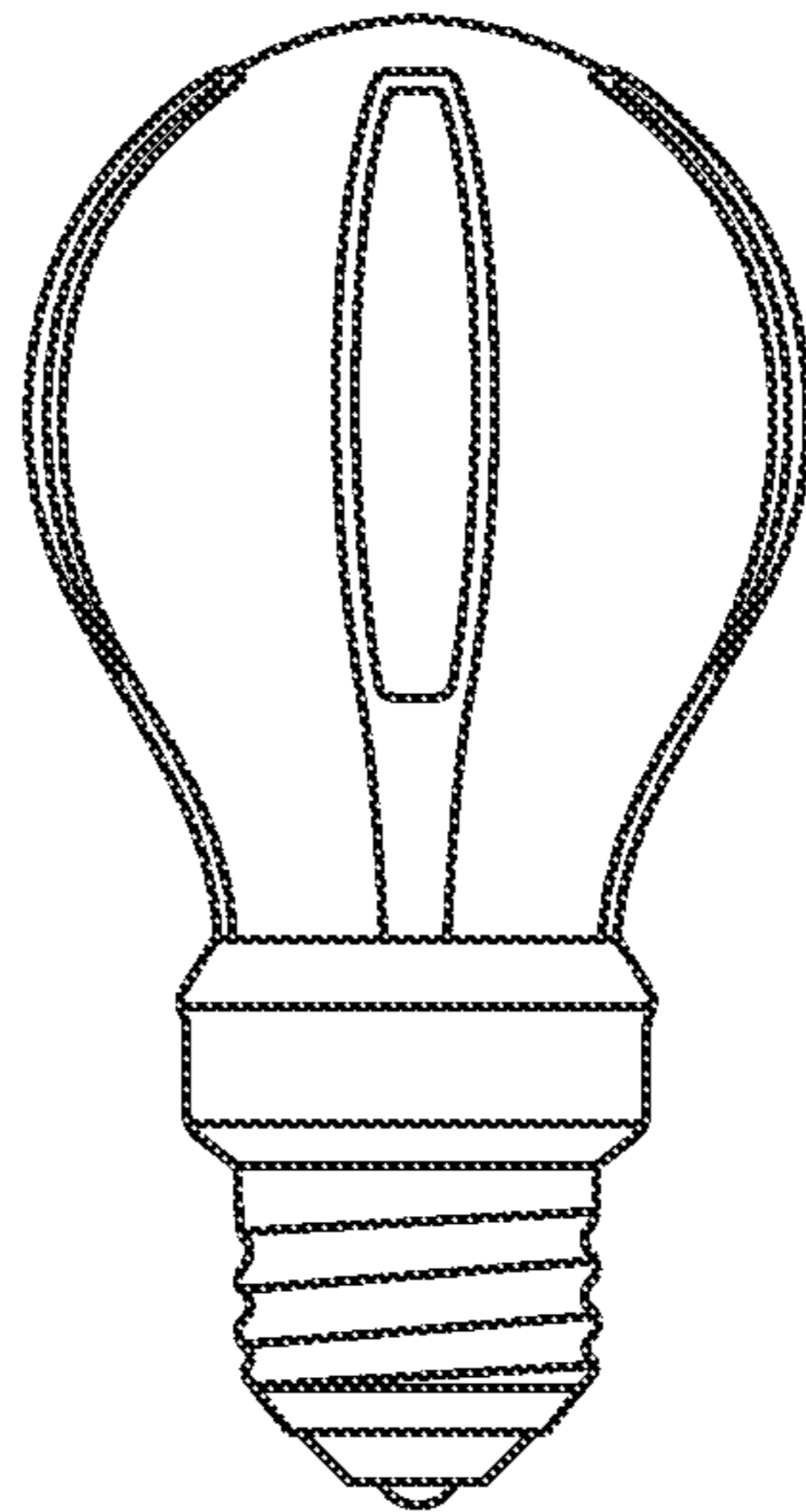
**Fig. 2**



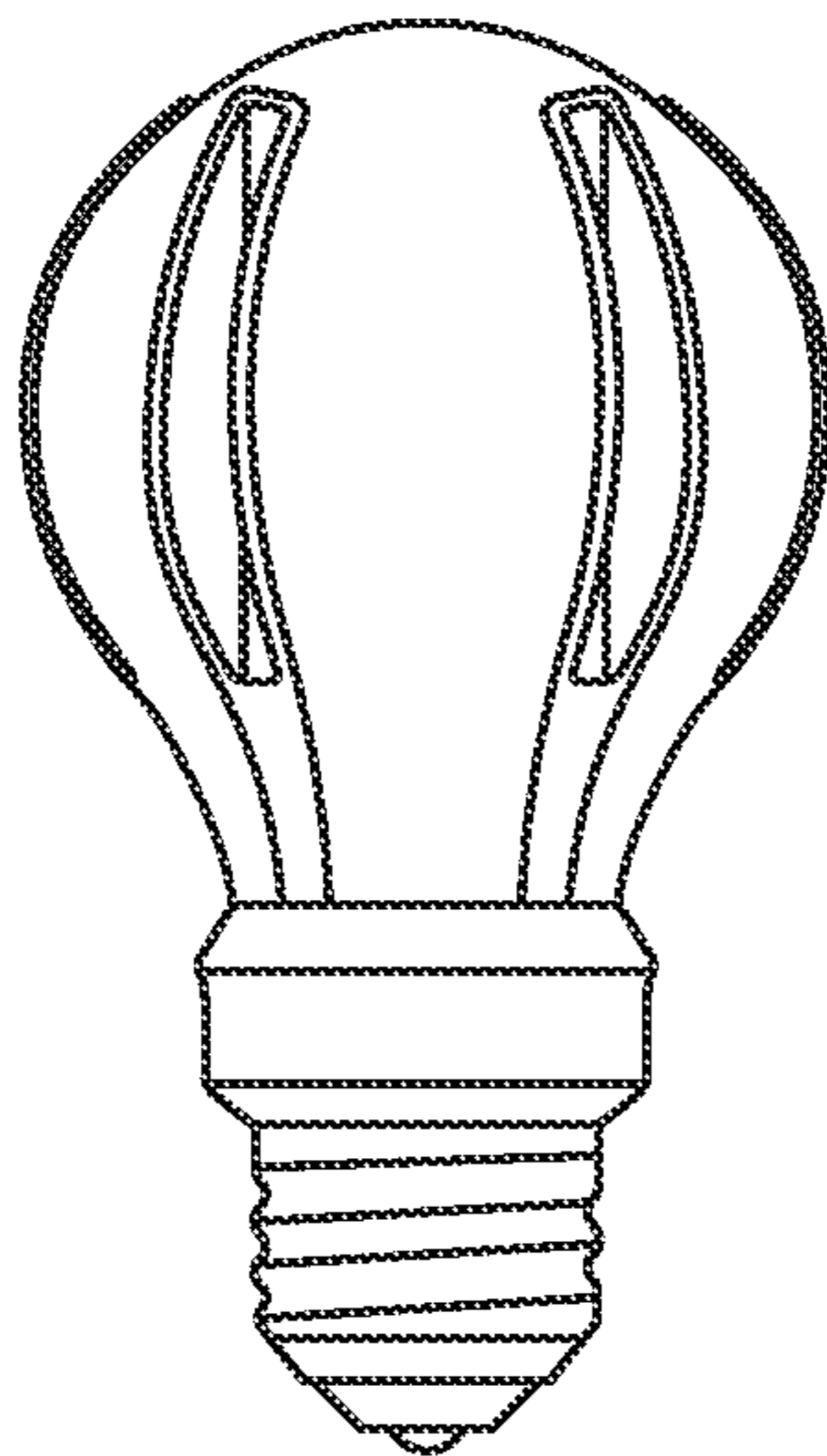
**Fig. 3**



**Fig. 4**



**Fig. 5**



**Fig. 6**