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(12) **United States Design Patent**  
**Jonovic et al.**

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(54) **HEATING ELEMENT**

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See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D40,225 S *	8/1909	Droege	.....	D7/346
D43,917 S *	4/1913	Waterman	.....	D7/346
D59,078 S *	9/1921	Hamlin	.....	D7/407
D176,456 S *	12/1955	Glynn	.....	D23/417
D209,115 S *	10/1967	Wright	.....	D7/407
3,786,219 A	1/1974	Kornrumpf et al.		
3,797,375 A	3/1974	Cerola		
4,114,009 A	9/1978	Kiuchi et al.		
4,149,217 A	4/1979	Tucker		
4,169,222 A	9/1979	Tucker		
4,206,336 A	6/1980	Cunningham		
4,308,443 A	12/1981	Tucker et al.		
4,415,788 A	11/1983	Field		
4,431,892 A	2/1984	White		

4,446,350 A	5/1984	Mizukawa et al.
4,446,849 A	5/1984	McFarland
4,453,068 A	6/1984	Tucker et al.
4,490,596 A	12/1984	Hirai et al.
4,501,260 A	2/1985	Grace
4,511,781 A	4/1985	Tucker et al.
4,549,052 A	10/1985	Simon
4,562,827 A	1/1986	Cerola
4,603,684 A	8/1986	Kazuo et al.
4,736,729 A	4/1988	Beach
4,750,470 A	6/1988	Beach et al.
4,766,880 A	8/1988	von Blanquet
4,833,288 A	5/1989	Poumey
4,899,028 A	2/1990	Arai et al.
4,934,337 A	6/1990	Falk

(Continued)

**FOREIGN PATENT DOCUMENTS**

EP 343767 A1 \* 11/1989

**OTHER PUBLICATIONS**

*Induction Cooktops*, Australian Consumers' Association website www.choice.com.au, Australia.

(Continued)

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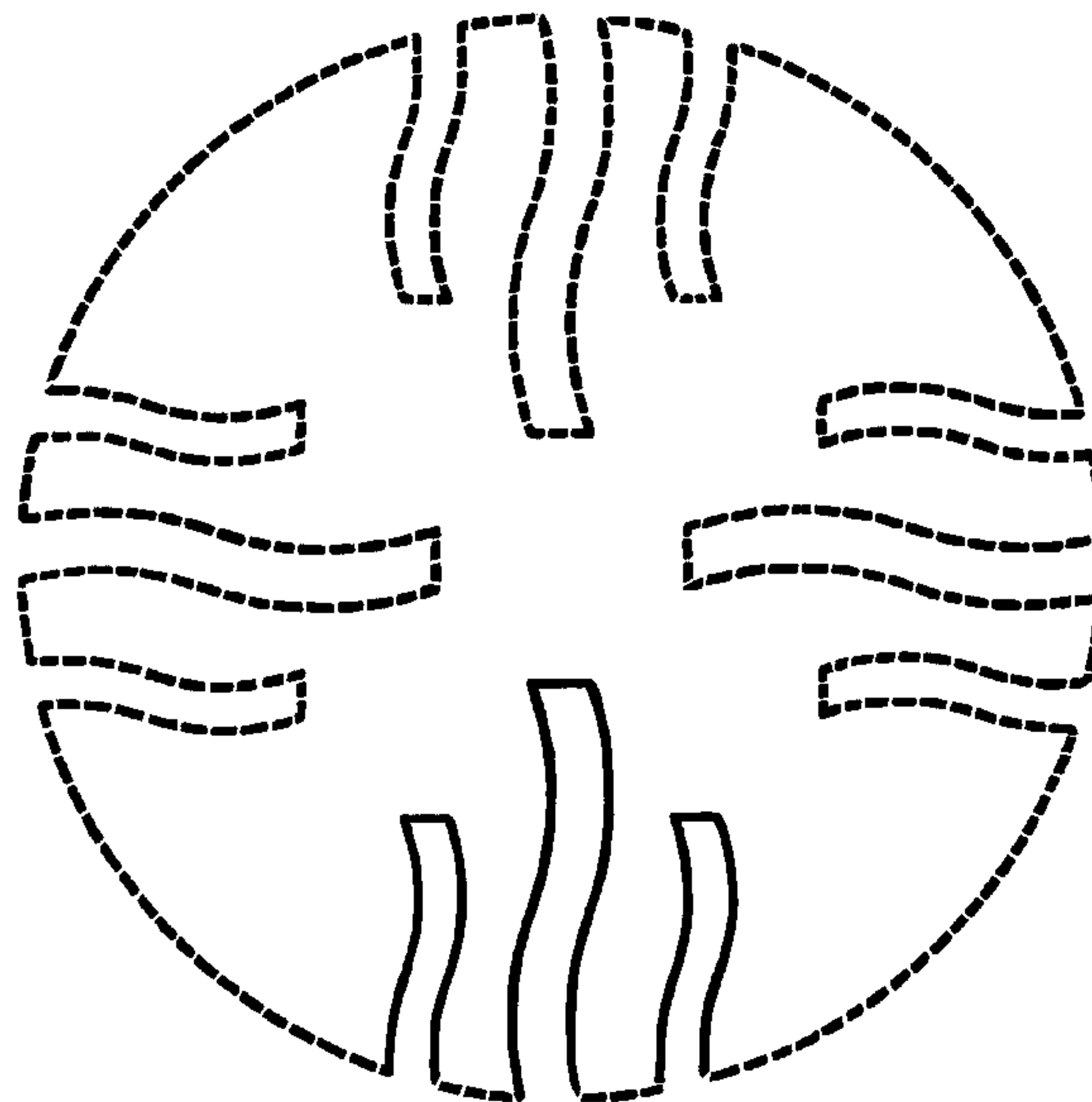
(57) **CLAIM**

The ornamental design for a heating element, substantially as shown and described.

**DESCRIPTION**

The sole FIGURE is a top plan view of a heating element of the present invention. The claim is directed to the solid lines in the drawing. The broken lines in the drawing represent unclaimed environmental subject matter.

**1 Claim, 1 Drawing Sheet**



# US D643,528 S

Page 2

## U.S. PATENT DOCUMENTS

4,945,891	A	8/1990	Cecil	
5,001,970	A	3/1991	Graver	
5,062,410	A	11/1991	Sarnosky et al.	
D327,538	S	6/1992	Falk et al.	
5,119,802	A	6/1992	Cherry et al.	
5,190,026	A	3/1993	Doty	
5,428,207	A	6/1995	Essig et al.	
5,430,273	A	7/1995	Bogdanski et al.	
5,446,268	A	8/1995	Chen	
5,572,205	A	11/1996	Caldwell et al.	
D396,989	S *	8/1998	Deo et al. ....	D7/346
5,900,175	A	5/1999	Kicherer et al.	
6,198,080	B1	3/2001	Rice et al.	
D447,554	S *	9/2001	Briggs et al. ....	D23/416
6,444,958	B1	9/2002	Campbell	
D467,461	S *	12/2002	Jones et al. ....	D7/346
6,555,794	B2	4/2003	Leutner et al.	
6,600,139	B2	7/2003	Perschl et al.	
6,639,190	B2	10/2003	Lerner	
6,660,980	B2	12/2003	Nagata et al.	
6,660,981	B2	12/2003	Ogata et al.	
6,809,301	B1	10/2004	McIntyre et al.	
D510,228	S *	10/2005	Huxhold .....	D7/346
7,049,552	B2	5/2006	Arntz et al.	
7,049,563	B2	5/2006	Keishima et al.	
7,081,603	B2	7/2006	Hoh et al.	
D541,486	S *	4/2007	Mahaffey .....	D29/119
D563,716	S *	3/2008	Grey et al. ....	D7/346
D569,497	S *	5/2008	Hoff et al. ....	D23/418
7,687,748	B2	3/2010	Gagas	
D619,415	S *	7/2010	Dall'Asta .....	D7/402
2008/0185376	A1	8/2008	Gagas et al.	
2010/0163549	A1	7/2010	Gagas et al.	

## OTHER PUBLICATIONS

*The Induction Hob Class Induction Technical Training*, Brandt Customer Services Formation CU3-Induction-002UK-02/03, ElcoBrandt training manual, France.

\* cited by examiner

