



US00D643528S

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

(10) **Patent No.:** **US D643,528 S**
(45) **Date of Patent:** **** Aug. 16, 2011**

(54) **HEATING ELEMENT**

(75) Inventors: **Scott A. Jonovic**, Cottage Grove, WI (US); **Michael L. Mosner**, Whitefish Bay, WI (US); **Peter F. Sosso**, Hustisford, WI (US)

(73) Assignee: **Western Industries, Inc.**, Watertown, WI (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/381,956**

(22) Filed: **Dec. 27, 2010**

(51) **LOC (9) Cl.** **23-03**

(52) **U.S. Cl.** **D23/418**

(58) **Field of Classification Search** D23/403-410, D23/415-422, 499, 342-350; D7/346, 402, D7/407, 408, 416, 417; 40/798; 44/520, 44/530; 52/36.3; 126/25 B, 298, 500, 512, 126/540, 543, 544, 548, 555; 160/DIG. 9; 431/263, 273, 329

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)

Primary Examiner — Karen S Acker

(74) *Attorney, Agent, or Firm* — Boyle Fredrickson, S.C.

(57) **CLAIM**

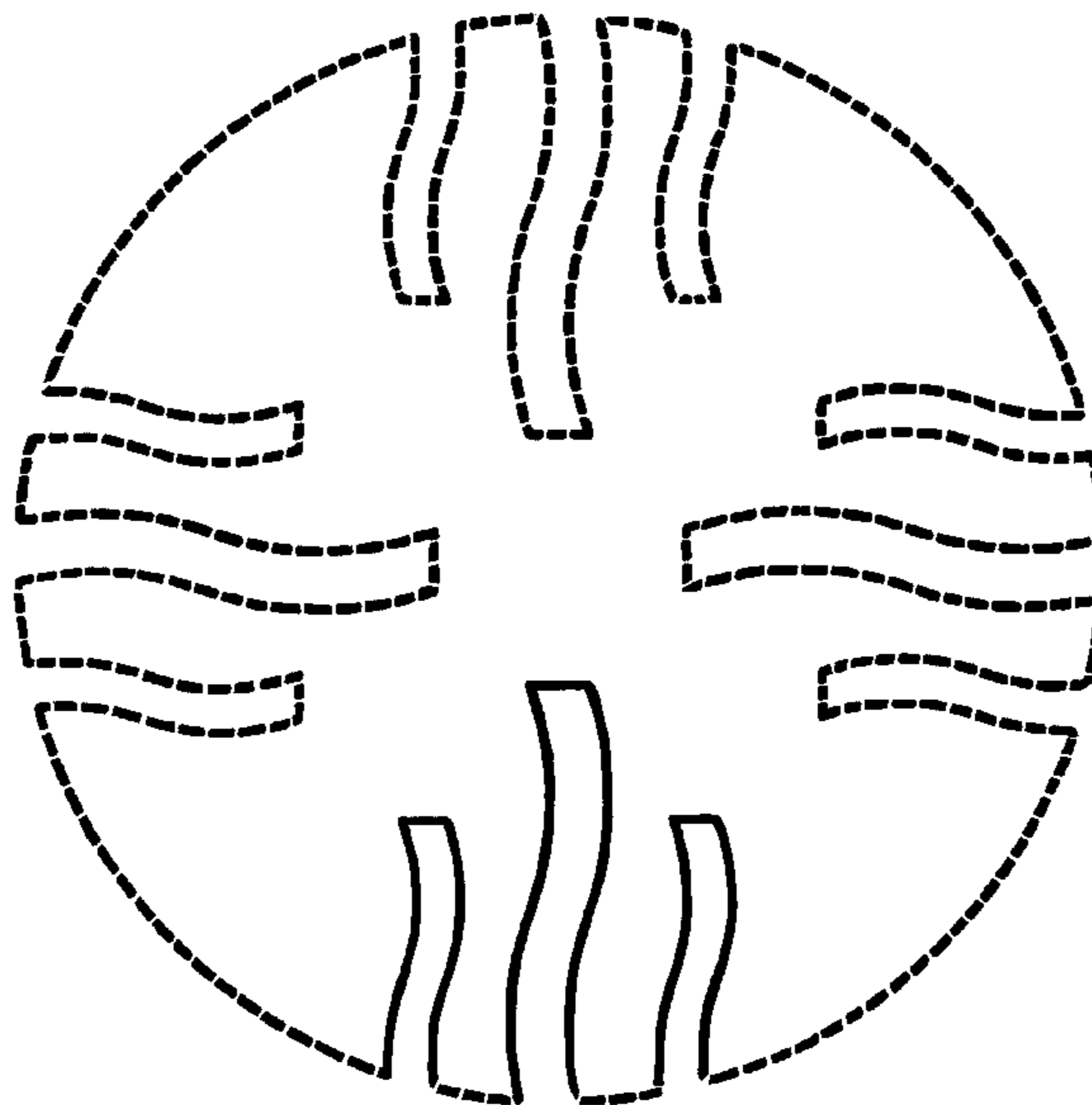
The ornamental design for a heating element, substantially as shown and described.

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

