

(12) United States Design Patent (10) Patent No.:

Kobayashi et al.

US D647,597 S

(45) **Date of Patent:**

Oct. 25, 2011

(54) EXPANSION VALVE

Inventors: Kazuto Kobayashi, Tokyo (JP); Takashi

Mogi, Tokyo (JP)

(73) Assignee: Fujikoki Corporation, Tokyo (JP)

Term: 14 Years

(21)Appl. No.: 29/371,564

(22) Filed: Apr. 25, 2011

(30)Foreign Application Priority Data

Γ	ec. 7, 2010	(JP)	2010-029125
(51)	LOC (9) Cl	•	23-01
(52)	U.S. Cl		D23/233
(58)	Field of Cla		D23/233–237,
		/	/625.48; 251/14, 64;
	62/1		25, 527; 236/63–64,
		236/66 92 B+ 28	5/189 208 211 368

(56)**References Cited**

U.S. PATENT DOCUMENTS

See application file for complete search history.

D427,285 S	aj¢	6/2000	Watanabe D23/233
D429,315 S	*	8/2000	Okada et al D23/233
D440,632 S	*	4/2001	Fukuda et al D23/233
D494,658 S	sķ.	8/2004	Kobayashi et al D23/233
D532,080 S	*	11/2006	Kobayashi et al D23/233
D546,921 S	*	7/2007	Kobayashi et al D23/233

D589,118	\mathbf{S}	*	3/2009	Watanabe	D23/233
D601,662	\mathbf{S}	*	10/2009	Kobayashi et al	D23/233
D602,560	S	*	10/2009	Shimura et al	D23/233
D621,475	\mathbf{S}	*	8/2010	Matsumoto	D23/233

^{*} cited by examiner

Primary Examiner — Cathron C. Brooks Assistant Examiner — Maurice Stevens

(74) Attorney, Agent, or Firm — Manabu Kanesaka

CLAIM

The ornamental design for an expansion valve, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of an expansion valve showing our new design;

FIG. 2 is a rear perspective view thereof;

FIG. 3 is a front view thereof;

FIG. 4 is a rear view thereof;

FIG. 5 is a right side view thereof, a left side view being symmetrical to the right side view;

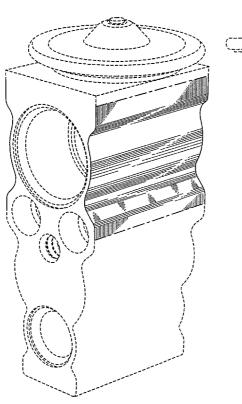
FIG. 6 is a plan view thereof; and,

FIG. 7 is a bottom view thereof.

The regular dashed lines represent unclaimed portions of the expansion valve and form no part of the claimed design.

The short/long dashed lines represent the boundary between claimed and unclaimed portions of the expansion valve. None of the broken lines form a part of the claimed design.

1 Claim, 6 Drawing Sheets



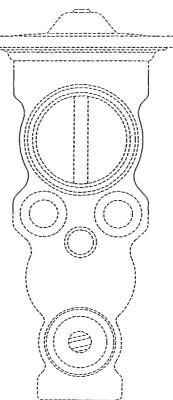


FIG. 1

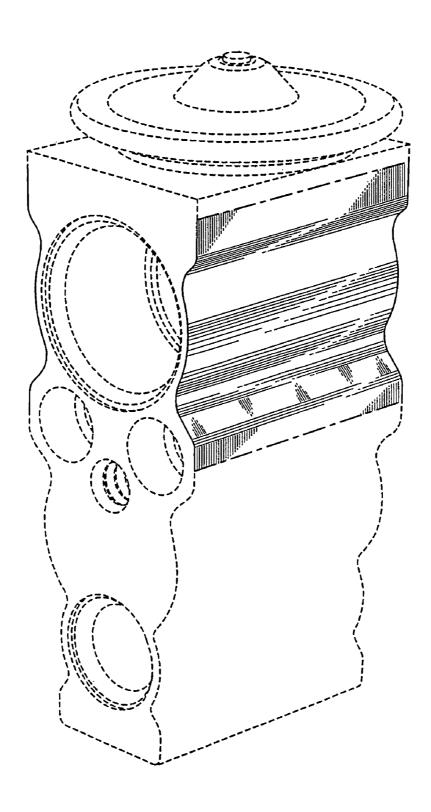


FIG. 2

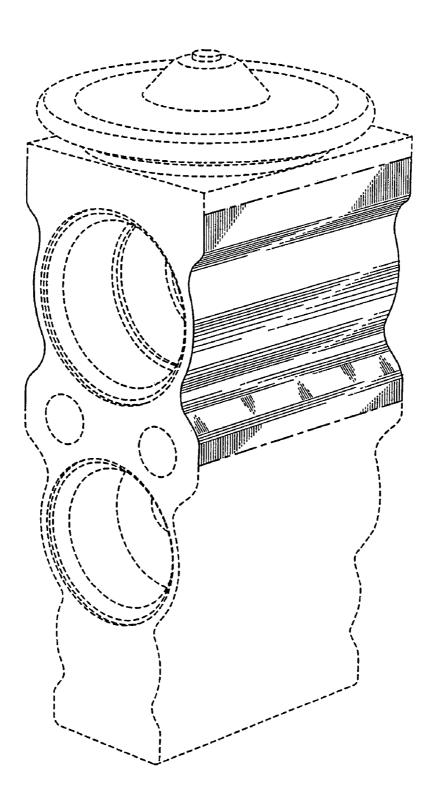


FIG. 3

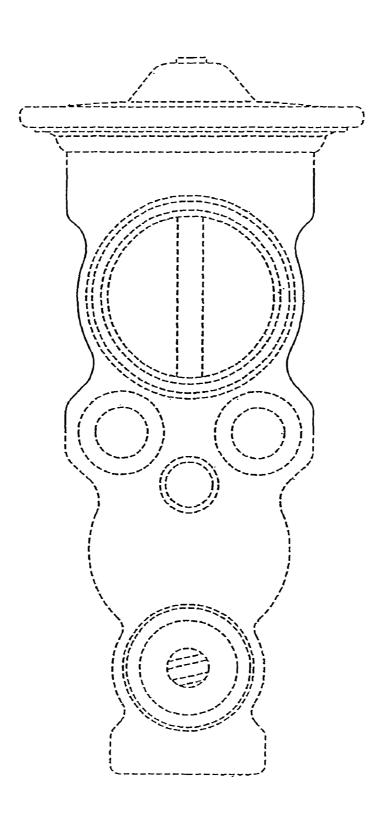


FIG. 4

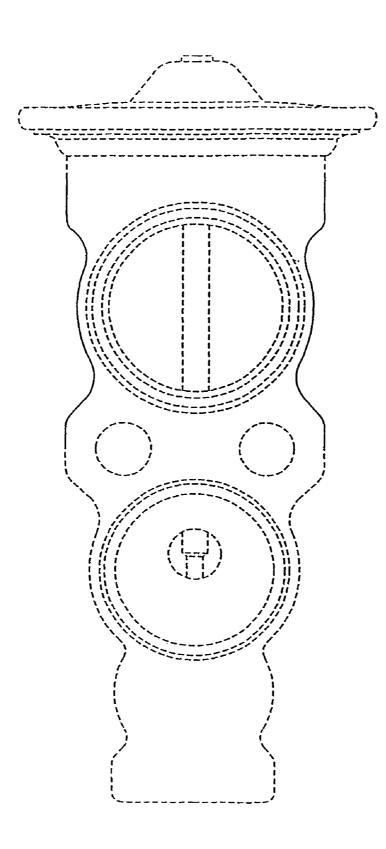


FIG. 5

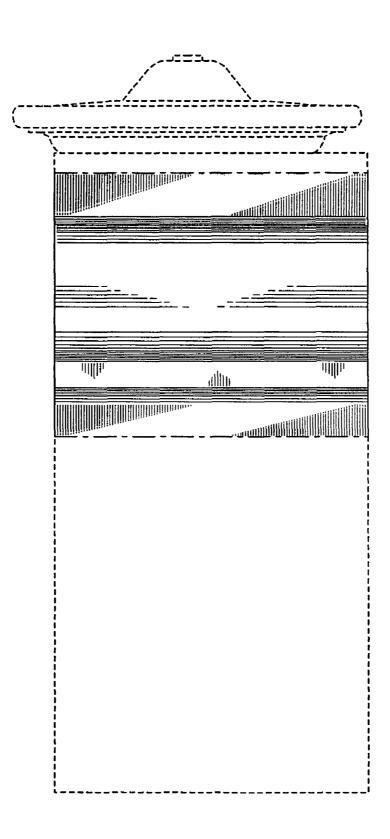


FIG. 6

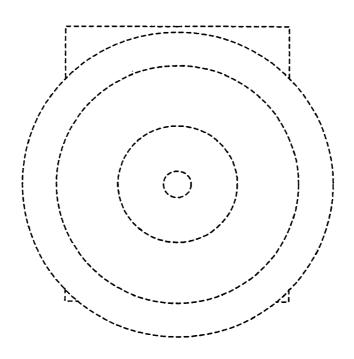


FIG. 7

