



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
07.12.2011 Bulletin 2011/49

(51) Int Cl.:
D06F 39/12 (2006.01)

(43) Date of publication A2:
17.03.2010 Bulletin 2010/11

(21) Application number: **09011565.0**

(22) Date of filing: **09.09.2009**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR
Designated Extension States:
AL BA RS

(30) Priority: **12.09.2008 JP 2008234636**

(71) Applicants:
• **Panasonic Corporation**
Kadoma-shi
Osaka 571-8501 (JP)
• **Nippon Steel Corporation**
Chiyoda-ku
Tokyo
100-8071 (JP)

(72) Inventors:
• **Wakamatsu, Hidetoshi**
Chuo-ku
Osaka-shi
Osaka 540-6207 (JP)

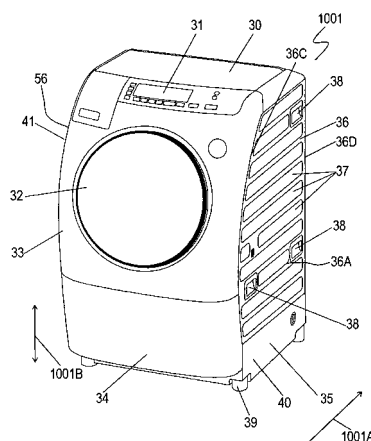
• **Matsuoka, Shinji**
Chuo-ku
Osaka-shi
Osaka 540-6207 (JP)
• **Terai, Kenji**
Chuo-ku
Osaka-shi
Osaka 540-6207 (JP)
• **Yoshida, Yuuichi**
Chiyoda-ku
Tokyo 100-8071 (JP)
• **Kuwayama, Takuya**
Chiyoda-ku
Tokyo 100-8071 (JP)

(74) Representative: **Eisenführ, Speiser & Partner**
Postfach 31 02 60
80102 München (DE)

(54) **Drum type washing machine**

(57) A drum type washing machine (1001) includes a housing (41), a drum (83) accommodated in the housing (41), a motor (81) accommodated in the housing (41). The side plate (36) has plural dents (37) provided therein extending in a longitudinal direction extending horizontally. Widths of plural dents (37) in a vertical direction are larger than a width of an area between dents adjacent to each other out of the plural dents (37) in the vertical direction. The side plate (36) is rigid, accordingly preventing the drum type washing machine (1001) from vibrating even when the rotation speed of the drum (83) increases.

Fig. 1A





EUROPEAN SEARCH REPORT

Application Number
EP 09 01 1565

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X,D	JP 2007 195859 A (SANYO ELECTRIC CO) 9 August 2007 (2007-08-09) * paragraphs [0035] - [0036] * * figures 1-4 *	1-4	INV. D06F39/12
A	DE 94 05 986 U1 (BOSCH SIEMENS HAUSGERAETE [DE]) 9 June 1994 (1994-06-09) * the whole document *	1-4	
A	DE 82 26 335 U1 (LICENTIA PATENT-VERWALTUNGS-GMBH [DE]) 17 February 1983 (1983-02-17) * the whole document *	1-4	
A	EP 1 602 772 A1 (WHIRLPOOL CO [US]) 7 December 2005 (2005-12-07) * the whole document *	1-4	
A	DE 10 2006 004349 B3 (MIELE & CIE [DE]) 25 January 2007 (2007-01-25) * abstract; figures 1-7 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC) D06F A47L
2	Place of search Munich	Date of completion of the search 31 October 2011	Examiner Weinberg, Ekkehard
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 09 01 1565

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

31-10-2011

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2007195859 A	09-08-2007	JP 4761983 B2	31-08-2011
DE 9405986 U1	09-06-1994	ES 1030862 U	16-10-1995
		FR 2718466 A1	13-10-1995
		GB 2288505 A	18-10-1995
		IT MI950238 U1	11-10-1995
		SE 511287 C2	06-09-1999
		SE 9500864 A	12-10-1995
DE 8226335 U1	17-02-1983	NONE	
EP 1602772 A1	07-12-2005	BR PI0501727 A	10-01-2006
		US 2005257326 A1	24-11-2005
DE 102006004349 B3	25-01-2007	EP 1813710 A1	01-08-2007
		US 2007175907 A1	02-08-2007