

# **FCC CLASS II PERMISSIVE CHANGE REQUEST LETTER**

Reason for Amendment (current / obsolete)	Revision History		Approved Date
	From	To	
Initial Release (current)	1.0	1.0	Feb-20-2012



**LG Household&Health Care Co., Ltd.**

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**FCC Class II Permissive Change Request Letter**

Date: September 22, 2017

To FCC:

**RE: FCC Permissive II Change Request for**

**Company: LG Household&Health Care Co., Ltd. FCC ID: 2AIYULTE007**

We are submitting an application for a class II permissive change to the FCC approval of the Company name: LG Household&Health Care Co., Ltd., product description: Dual Spin Spa (FCC: **2AIYULTE007**, Original Grant Date: 08/19/2016). The transmitter module itself has not changed. Here are the changes:

Change of Parts and Adaptor (Attached detail list)

Sincerely,

Title Senior Research Engineer

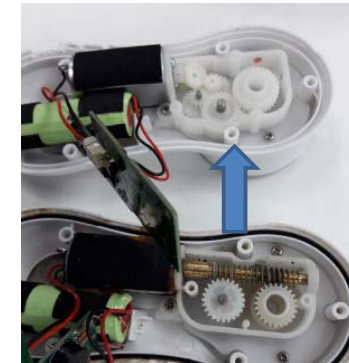
Name: Jungyong Lee

Address LG GwangHwaMoon Building, 58, Saemunan-ro Jongno-gu, Seoul 03184, Korea

Signature

A handwritten signature in black ink, appearing to be "J. Lee", written over a light blue grid background.

category		item	Qty	reason of change
cradle	deleted items	DC boosting IC(ME2149 SOP 8)	1	To have more stability on big current supplying adaptor.
		Chip diode(SS24 D0 214AC)	1	
		Chip mosfet (RZC2300 SOT 23)	1	
		Chip resistance (3.3k $\pm 5\%$ , 0603)	1	
		Chip resistance (10k $\pm 5\%$ , 0603)	3	
		Chip resistance (1k $\pm 5\%$ , 0603)	2	
		Chip inductance (3.3uH/K, 0705)	1	
	changed items	Chip Mosfet (RZC2300 SOT 23 --> SS8550 SOT23)	1	Previously, our charger is made to fit adaptor that we provide. However, customer can use the adaptor that they use, so we increase the stability on other adaptors
		Chip resistance (30k $\pm 1\%$ , 0603 --> 20k $\pm 5\%$ , 0603)	1	
		Chip resistance (5.36k $\pm 1\%$ , 0603 --> 100R $\pm 5\%$ , 0603)	1	
	newly added	Mosfet (Q4)	1	
device	changed items	two plastic gear and one worm gear --> six plastic gear		To increase the torque of the device
		metal gear --> two plastic gear		
		Nichibo motor --> Kaihong motor		
	newly added	one sealing ring	1	increase the waterproof ability for shaft part



# Motor

	old	new
model	KF-180SH-22100L-R-J-43	KFF-180SH-20100V-39N
company	Nichibo	Kai hong
rate voltage	3.6 VDC	3.7 VDC
rate load	15.0 g cm	21.3 g cm
no load current	200 mA MAX	110 mA MAX
no load speed	6000 RPM ( $\pm 15\%$ )	6000 RPM ( $\pm 10\%$ )
rated load current	370 $\pm$ 74 mA	550 mA Max
rated load speed	5300 RPM ( $\pm 15\%$ )	4980 RPM ( $\pm 10\%$ )
Insulation Resistance	DC 500V 10M $\Omega$ MIN	DC 100V 1M $\Omega$ MIN

# Adaptor

	old	new
model name	HU10561-14010 (SK13G-0500100K)	MCS-02KPN
rated voltage range (Vac)	100 -240	100-240
Rateed input frequency (Hz)	50/60	50/60
rated output voltage (Vdc)	5	5
rated output current	1A	850mA