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[Continued on next page]

(54) Title: PLUGS AND ADAPTERS

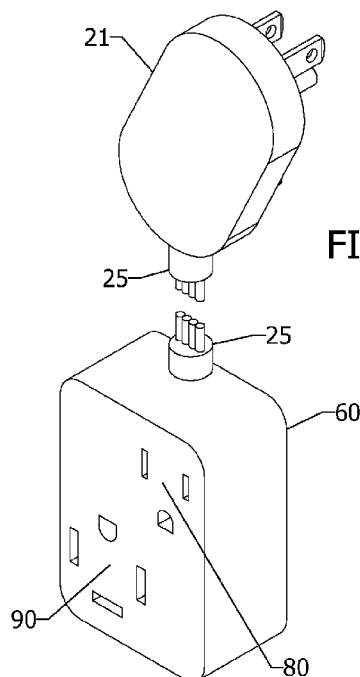


FIG. 1

(57) Abstract: Plugs, adapters, and sockets, as well as their use are provided. In some embodiments, a multi-line electrical receptacle comprising a plurality of prongs, each configured to be in communication with a different one of at least four terminals of a multi-line electrical receptacle is provided. In some embodiments, the plug is configured to access at least two hot lines, one neutral, and one ground (and the prongs are shaped accordingly). In some embodiments, the result is a 4 wire, 3 pole, multi-voltage configuration which can be utilized appropriately.



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A. CLASSIFICATION OF SUBJECT MATTER***H01R 13/10(2006.01)i, H01R 13/20(2006.01)i, H01R 27/00(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01R 13/10; H01R 24/00; H01R 13/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: shutter, plug, prong, socket, adapter, receptacle

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2009-0203242 A1 (KIM KYUNG T.) 13 August 2009 See paragraph [0139] - paragraph [0140] and figure 5A.	1-17, 19-23, 28-44 18, 24-27
X A	US 06086391A A (CHIU; SHUN KUO) 11 July 2000 See column 7, line 53 - column 8, line 26 and figures 7-9.	18 1-17, 19-44
A	US 6422880 B1 (CHIU; SHUN-KUO) 23 July 2002 See column 2, lines 49-62 and figures 8-10.	1-44
A	US 6217353 B1 (YU-TSE; LIN) 17 April 2001 See column 3, lines 9-31 and figures 7-9.	1-44



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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 06086391A A	11.07.2000	None	
US 6422880 B1	23.07.2002	None	
US 6217353 B1	17.04.2001	None	