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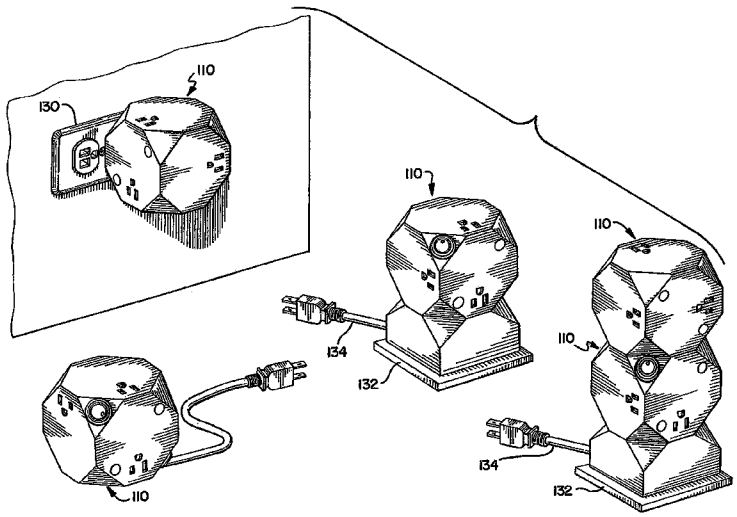
(54) Title: GEOMETRICALLY OPTIMIZED ELECTRICAL SIGNAL/POWER DISTRIBUTION DEVICE HAVING A MULTIPLE SURFACE RECEPTACLE ARRANGEMENT



(57) Abstract: A signal/power distribution device (10) having a geometrically optimized form factor for a given set of design constraints. Geometric optimization is achieved through use of form factors such as the Platonic or Archimedean solids, or hexagonal prism forms. Other aspects of optimization are also disclosed, such as switch (20) and cord (18) placement with respect to these geometries so as to minimize interference with the geometric optimization, as well as receptacle or connector outlet (16) placement with respect to surfaces of the geometric form factors to optimize available space for plug-ins and minimize the potential for interference with cords (18) or other umbilical features of the plug-ins. In a preferred embodiment, a signal/power distribution device is provided having a multiple-surface receptacle arrangement allowing each plug-in to engage the device in its own plane or surface.

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER
IPC: **H01R 25/00**(2006.01),**27/02**(2006.01),**31/00**(2006.01),**33/92**(2006.01)

USPC: 439/654,652,476.1
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)
U.S. : 439/654,652,476.1

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US D469,405 D (NIETO et al) 28 January 2003 (28.01.2003), see figure 14.	40-54, 56-60
Y, P	US D540,257 S (IVANOVA et al) 10 April 2007 (10.04.2007), see figures 1-7.	1-38, 55
A	US D469,405 D (NIETO et al) 28 January 2003 (28.01.2003), see figure 14.	39
Y	US D469,405 D (NIETO et al) 28 January 2003 (28.01.2003), see figure 14.	1-38, 55

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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