

(12) United States Design Patent (10) Patent No.: US D439,566 S ****** Mar. 27, 2001 Ohanian (45) **Date of Patent:**

CIRCUIT CARD CAGE (54)

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- 14 Years (**) Term:
- Appl. No.: 29/113,634 (21)

by the Institute of Electrical and Electronics Engineers, Inc., Jun. 18, 1992, pp. 1–51.

* cited by examiner

Primary Examiner—Brian N. Vinson (74) Attorney, Agent, or Firm—Fulbright & Jaworski L.L.P. CLAIM (57)

I claim the ornamental design for a circuit card cage, as shown and described.

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Related U.S. Application Data

- (63)Continuation-in-part of application No. 09/251,898, filed on Feb. 19, 1999.
- LOC (7) Cl. 13-95 (51)
- **U.S. Cl.** **D13/199**; D13/182; D14/439 (52)
- (58)D14/432, 433, 434, 435, 436, 437, 439; 361/800-802, 756, 799; 21/41.17; 439/377

References Cited (56)

U.S. PATENT DOCUMENTS

D. 268,754 * 4/1983 Chaney et al. D13/199 5/1965 Rosenberg 261/802 X 3,184,069 *

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

DESCRIPTION

This application is related to concurrently filed and commonly assigned U.S. Design Patent Application Ser. No. 29/113,654.

FIG. 1 is an isometric view from the front showing the front, right, and top sides of my design for a circuit card cage, wherein the irregular broken line is intended to indicate the unclaimed boundary of the portion of the cage which constitutes the claimed design, with the remaining portions of the cage, and the exemplary circuit card shown in the various views being understood as environmental structure forming no part of the claimed design; FIG. 2 is an elevation view from the front showing the front side of my design for a circuit card cage; FIG. 3 is an elevation view from the right showing the right side of my design for a circuit card cage; FIG. 4 is an elevation view from the back showing the back side of my design for a circuit card cage; FIG. 5 is an elevation view from the left showing the left side of my design for a circuit card cage; FIG. 6 is a plan view from the top of my design for a circuit

0392114	10/1990	(EP)	
0688157	12/1995	(EP)	
50-119282	9/1975	(JP)	

OTHER PUBLICATIONS

le;2q"IEEE Standard for Metric Equipment Practice for Microcomputers—Convention–Cooled with 2 mm Connectors", Published by The Institute of Electrical and Electronics Engineers, Inc., Jan. 9, 1992, pp. 1–37.

"IEEE Standard for Mechanical Core Specifications for Microcomputers Using IEC 603–2 Connectors", Published

card cage;

FIG. 7 is a plan view from the bottom of my design for a circuit card cage; and,

FIG. 8 is an isometric view from the front showing the front, right, and top sides of my design for a circuit card cage, illustrating the top side of the circuit card cage offset toward the back of the circuit card cage.

It should be understood that the labels used herein for describing orientation (e.g., front, back, top, bottom, right, and left) are merely for reference, and the design may be disposed in any manner and still be within the scope of the present invention.

1 Claim, 8 Drawing Sheets



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U.S. PATENT DOCUMENTS

3,470,420	*	9/1969	Marks
4,158,220		6/1979	Yamamoto et al 361/415

4,417,778	11/1983	Halvorsen et al
5,594,627 *	1/1997	Le
6,008,995 *	12/1999	Pusateri et al 361/802 X
6,080,930 *	6/2000	Lommen et al 361/802 X

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FIG. 3

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FIG. 5

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