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Hundt

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[54] IC PACKAGE HAVING DIRECT ATTACH BACKUP BATTERY

[75] Inventor: **Michael J. Hundt, Lewisville, Tex.**

[73] Assignee: **SGS-Thomson Microelectronics, Inc., Carrollton, Tex.**

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Primary Examiner—Andrew J. James

Assistant Examiner—Carl Whitehead, Jr.

Attorney, Agent, or Firm—Dennis T. Griggs; Richard A. Bachand; Richard K. Robinson

Related U.S. Application Data

[63] Continuation of Ser. No. 669,348, Mar. 14, 1991, abandoned, which is a continuation-in-part of Ser. No. 470,939, Jan. 26, 1990, abandoned.

[51] Int. Cl.⁵ **H01L 23/48; H01L 23/02; H01L 23/12; G11C 7/00**

[52] U.S. Cl. **257/678; 257/691; 257/692; 257/787; 257/924; 257/666; 365/229; 365/228**

[58] Field of Search **357/74, 70, 72, 75; 361/392, 394, 395, 380; 174/52.4; 365/228, 229, 226; 368/203, 204, 205; 257/678, 691, 692, 787, 788, 798, 928, 924, 666**

[57] ABSTRACT

A molded device package supports a volatile memory chip and a replaceable backup battery for preserving data in the event of loss of main power supply. The package includes an external socket for receiving a replaceable backup battery which can be manually inserted into or removed from the socket after molding encapsulation and metal trim work have been completed. The socket is intersected by an exposure cavity which permits the positive and negative terminals of a backup battery to engage positive and negative finger leads. The positive and negative battery terminals are engaged by resilient terminal contact portions of the positive and negative finger leads which project into the exposure cavity. Socket shoulder portions and a retainer cap hold a backup battery within the socket and in electrical contact with the resilient terminal contact portions.

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11 Claims, 4 Drawing Sheets

