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(12) **United States Design Patent**  
**Tang**

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(54) **INK CARTRIDGE CHIP**

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(\*\*) Term: **14 Years**

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(52) **U.S. Cl.**  
USPC ..... **D13/182**

(58) **Field of Classification Search**

USPC ..... D13/182, 199; 112/453, 457; 174/68.1,  
174/250, 251, 253, 255, 256, 257;  
318/568.1, 567; 361/679.01, 748, 752,  
361/760, 807; 439/540.1, 945, 946, 76.1;  
D14/164, 263, 435, 481

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,872,091 A \* 10/1989 Maniwa et al. .... 361/679.31  
D310,514 S \* 9/1990 Maurer et al. .... D13/182  
D357,228 S \* 4/1995 Anton ..... D13/182

D365,092 S \* 12/1995 Mundigl et al. .... D14/437  
D376,134 S \* 12/1996 Anton ..... D13/182  
5,659,459 A \* 8/1997 Wakabayashi et al. .... 361/753  
D386,475 S \* 11/1997 Hiramatsu ..... D13/182  
5,742,299 A \* 4/1998 Igarashi ..... 345/501  
D406,821 S \* 3/1999 Fischer et al. .... D13/182  
6,404,639 B1 \* 6/2002 Wakabayashi et al. .... 361/719  
D486,830 S \* 2/2004 Kadonaga ..... D14/435  
D529,031 S \* 9/2006 Huang et al. .... D14/436  
D594,827 S \* 6/2009 Loh et al. .... D13/182  
D605,613 S \* 12/2009 Carter et al. .... D13/182  
D675,582 S \* 2/2013 Segler et al. .... D13/182  
D689,834 S \* 9/2013 Chu et al. .... D13/182  
D691,101 S \* 10/2013 Ishizawa et al. .... D13/182  
D711,842 S \* 8/2014 Jenni ..... D13/182

\* cited by examiner

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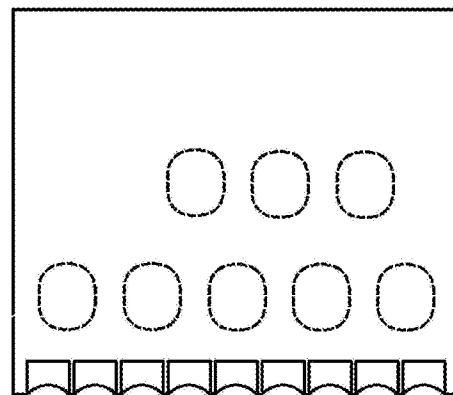
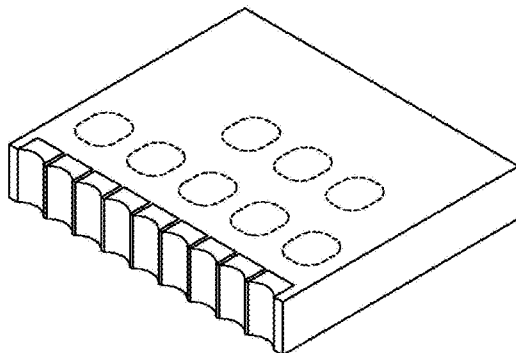
(57) **CLAIM**

The ornamental design for an ink cartridge chip, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an ink cartridge chip showing my new design;  
FIG. 2 is a front elevation view thereof;  
FIG. 3 is a rear elevation view thereof;  
FIG. 4 is a left side view thereof;  
FIG. 5 is a right side view thereof;  
FIG. 6 is a top plan view thereof; and,  
FIG. 7 is a bottom plan view thereof.  
The broken lines shown in the drawings represent portions of the ink cartridge chip that form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



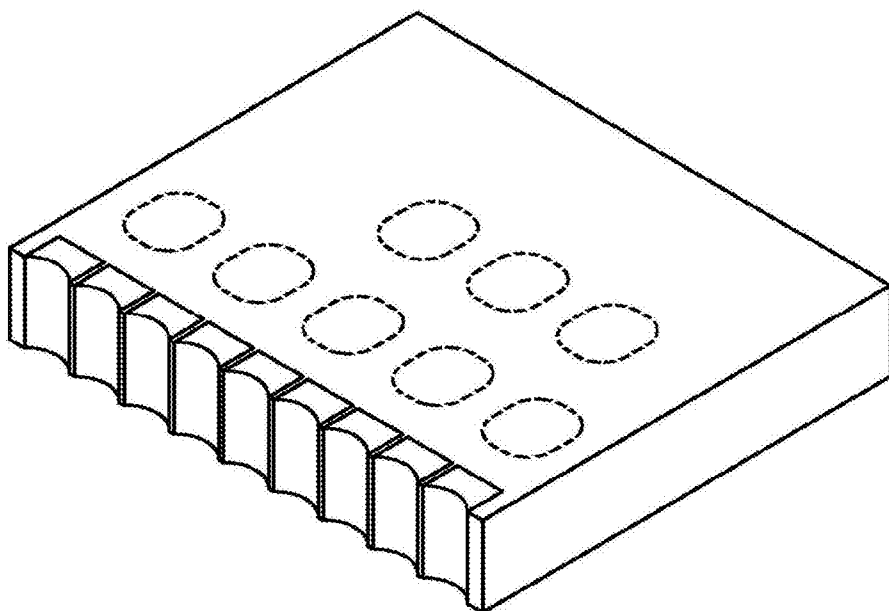


FIG. 1

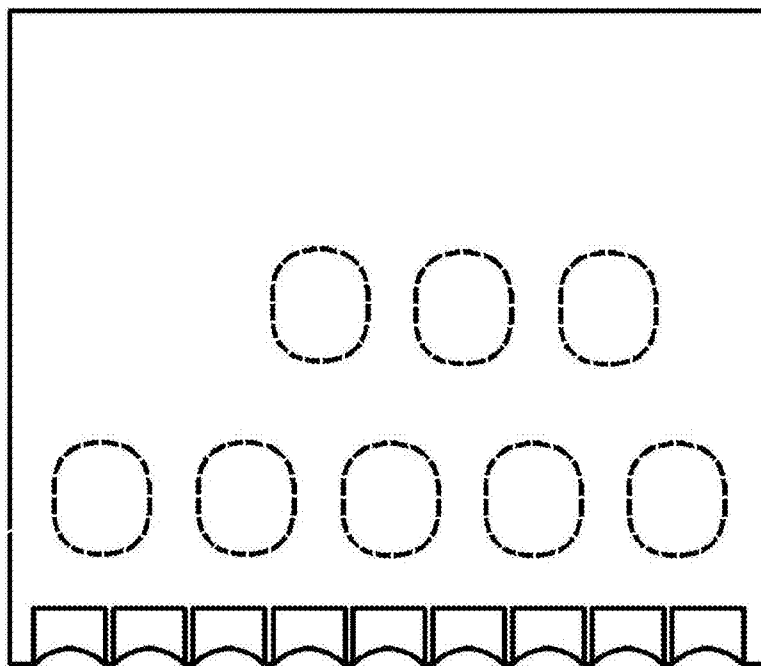


FIG. 2

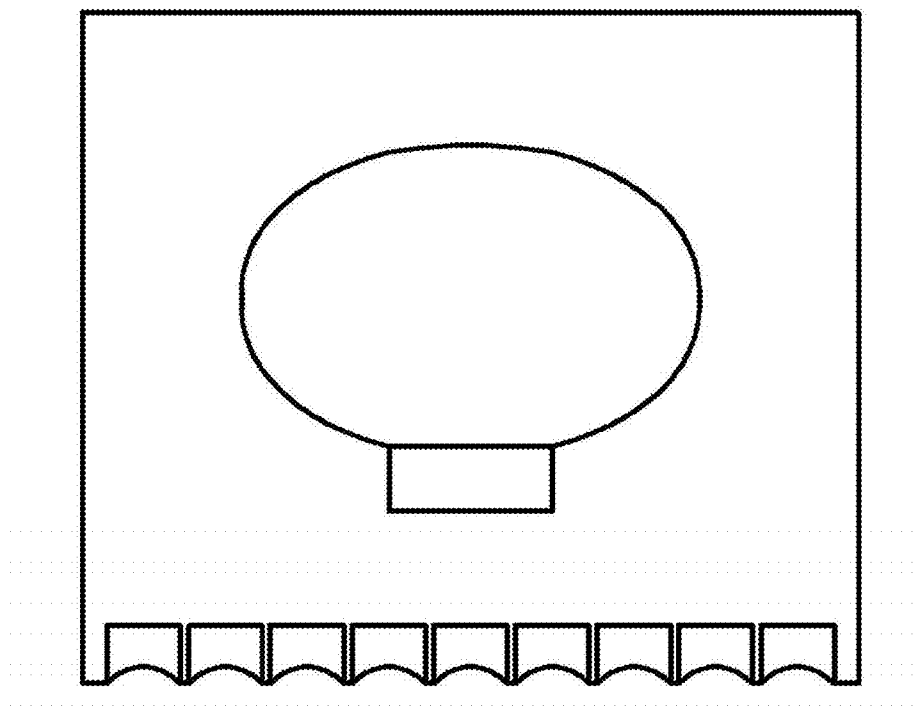


FIG. 3

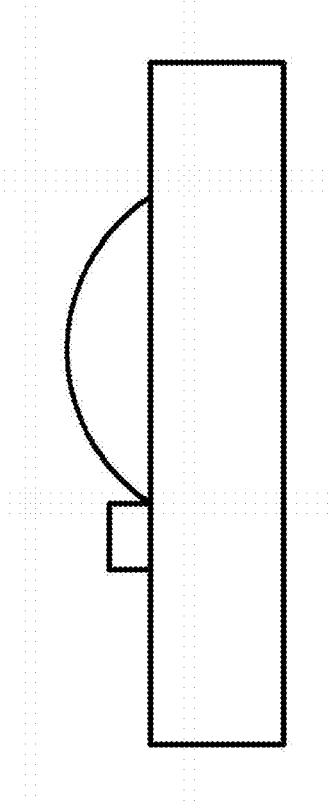


FIG. 4

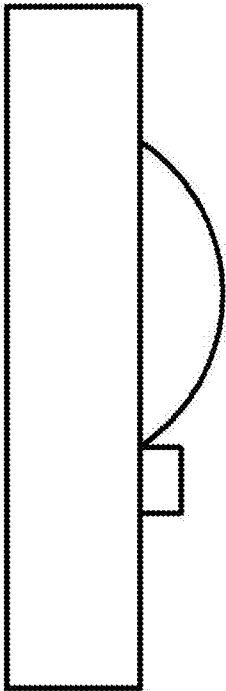


FIG. 5

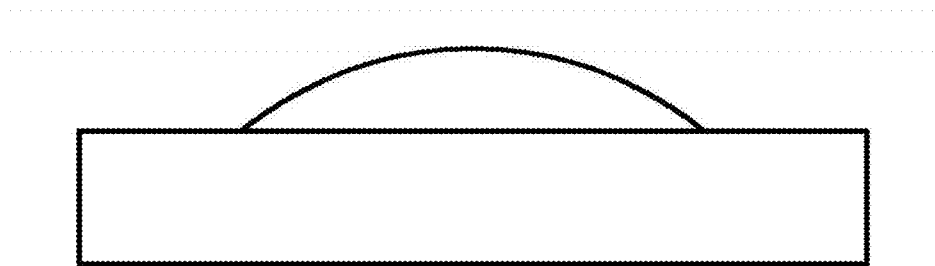


FIG. 6

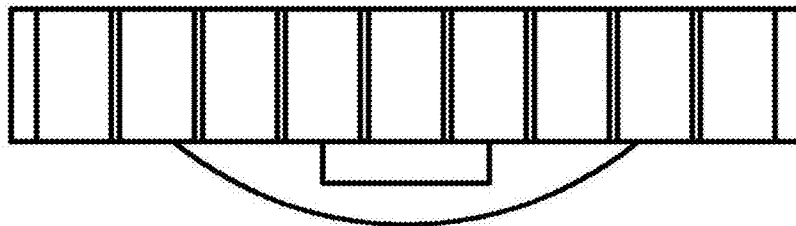


FIG. 7