



US00D681980S

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

(10) **Patent No.:** **US D681,980 S**

(45) **Date of Patent:** **\*\* May 14, 2013**

(54) **ASYMMETRIC COIL SPRING**

(75) Inventor: **Michael S. DeFranks**, Decatur, GA  
(US)

(73) Assignee: **Dreamwell, Ltd.**, Las Vegas, NV (US)

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

(21) Appl. No.: **29/383,932**

(22) Filed: **Jan. 24, 2011**

7,178,187 B2 \* 2/2007 Barman et al. .... 5/716  
7,921,561 B2 \* 4/2011 Eigenmann et al. .... 29/896.92  
2006/0042016 A1 \* 3/2006 Barman et al. .... 5/716

\* cited by examiner

*Primary Examiner* — Janice Seeger

(74) *Attorney, Agent, or Firm* — Cantor Colburn LLP

(57) **CLAIM**

The ornamental design for an asymmetric coil spring, as shown and described.

**DESCRIPTION**

FIG. 1 shows a perspective view of an uncompressed asymmetric coil spring showing my new design. The coil spring includes an upper section and a lower section. The upper section has a generally conical shape whereby the diameter of the coil spring in the upper section increases from top to bottom of the upper section. The upper section includes four active convolutions. The lower section is generally cylindrical such that the diameter stays substantially the same along the length of the coil spring in the lower section. The full coil includes nine active convolutions.

FIG. 2 shows a top down view of the asymmetric coil spring shown in FIG. 1; and,

FIG. 3 shows a bottom down view of the asymmetric coil spring shown in FIG. 1.

**Related U.S. Application Data**

(63) Continuation of application No. 13/008,720, filed on Jan. 18, 2011, which is a continuation-in-part of application No. 11/978,869, filed on Oct. 29, 2007.

(51) **LOC (9) Cl.** ..... **06-06**

(52) **U.S. Cl.**  
USPC ..... **D6/504**

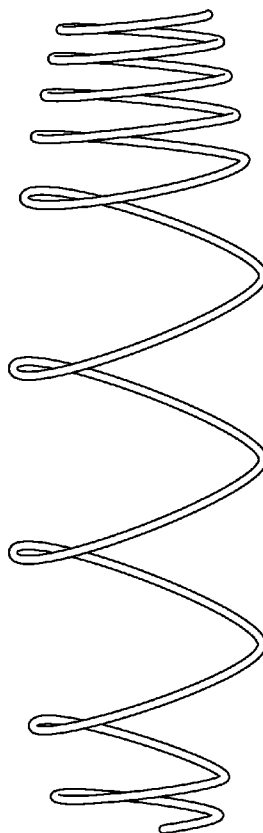
(58) **Field of Classification Search** ..... D6/503,  
D6/504; 5/716, 246, 248, 256; 267/91  
See application file for complete search history.

**References Cited**

**U.S. PATENT DOCUMENTS**

804,352 A \* 11/1905 Van Cise ..... 5/246  
1,963,053 A \* 6/1934 Powers ..... 5/256

**1 Claim, 2 Drawing Sheets**



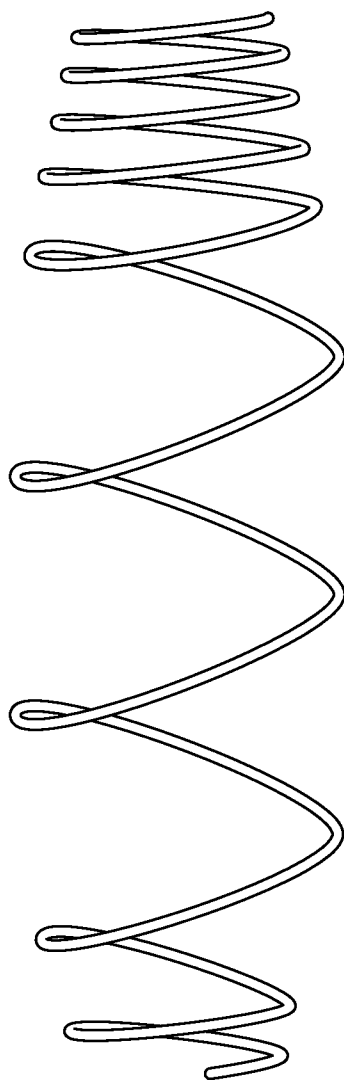


FIG 1

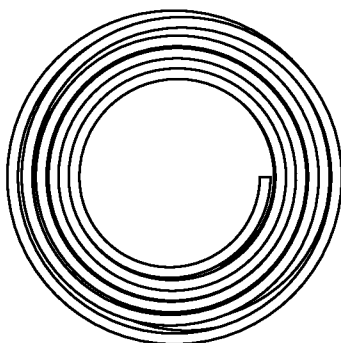


FIG 2

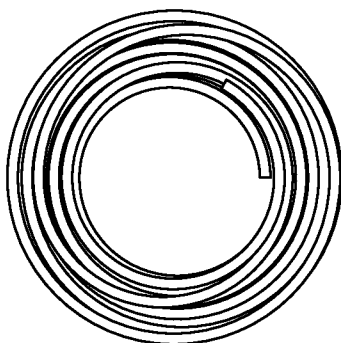


FIG 3

**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**Certificate**

Patent No. D. 681,980 S

Patented: May 14, 2013

On petition requesting issuance of a certificate for correction of inventorship pursuant to 35 U.S.C. 256, it has been found that the above identified patent, through error and without any deceptive intent, improperly sets forth the inventorship.

Accordingly, it is hereby certified that the correct inventorship of this patent is: Michael S. DeFranks, Decatur, GA (US); and Rahul Kirtikar, Atlanta, GA (US).

Signed and Sealed this Third Day of September 2013.

CARON D. VEYNAR  
*Supervisory Patent Examiner*  
Art Unit 2913  
Technology Center 2900