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(12) **United States Design Patent** (10) **Patent No.:** **US D775,698 S**
Su (45) **Date of Patent:** **** Jan. 3, 2017**

(54) **SHUTTLECOCK FEATHER**
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(51) **LOC (10) Cl.** **21-02**
(52) **U.S. Cl.**
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D21/606-609, 641, 658, 707, 711;
D11/44, 48, 49, 57, 58, 68, 81, 84, 99,
D11/100, 107, 115, 117, 121, 125, 130,
D11/162, 184; D2/891, 895;
D19/123, 146, 192, 202; D28/25, 27, 32,
D28/33, 39-43, 92, 93, 99; D22/115, 128;
D23/413; 428/6, 15-27
CPC A63B 67/18; A63B 67/183; A63B 67/187;
A63B 67/19; A41G 1/00; A41G 1/001;
A41G 11/00; A41G 11/02; F04D 29/384;
F42B 6/06
See application file for complete search history.

4,019,738 A * 4/1977 Tong A63H 33/00
473/580
4,995,619 A * 2/1991 Hwang A63B 67/197
446/397
5,082,385 A * 1/1992 Stewart B43K 7/005
401/8
5,265,886 A * 11/1993 Hum A63B 67/19
446/418
D396,511 S * 7/1998 Leong D21/711
D571,454 S * 6/2008 Gajewski D23/413
2010/0180833 A1 * 7/2010 Ohms A01K 15/02
119/707

(Continued)

FOREIGN PATENT DOCUMENTS

CN 302134329 * 10/2012
CN WO 2014026561 A1 * 2/2014 A63B 67/187

(Continued)

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(57) **CLAIM**

The ornamental design for a shuttlecock feather, as shown and described.

DESCRIPTION

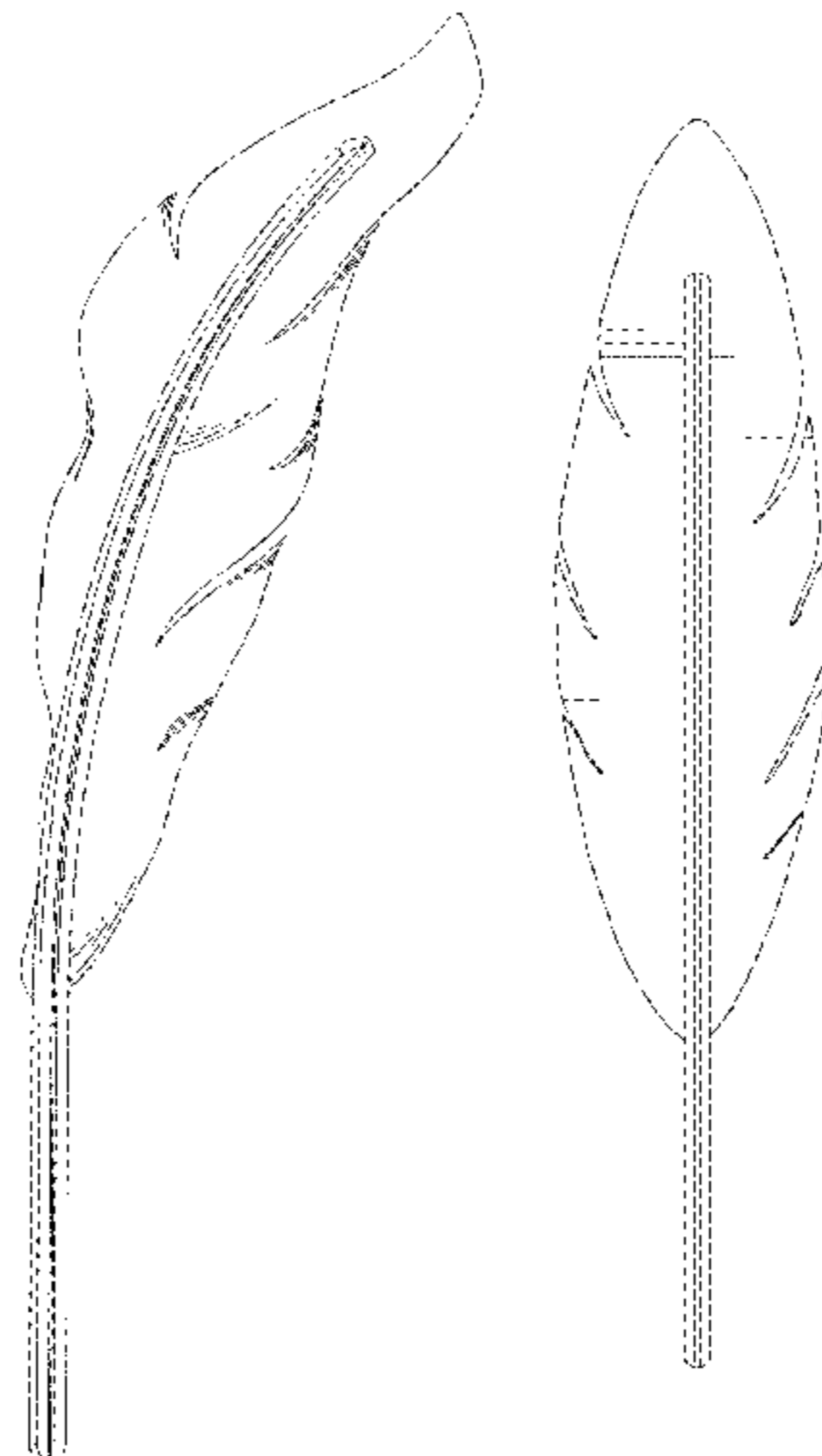
FIG. 1 is a perspective view showing my new design for a shuttlecock feather in a flexed configuration; FIG. 2 is another perspective view thereof shown in association with a shuttlecock. The broken lines showing the shuttlecock and additional feather elements are for illustrative purposes only and form no part of the claimed design; FIG. 3 is a front elevation view showing the design in a flattened configuration; FIG. 4 is a rear perspective view thereof; FIG. 5 is a left side elevation view thereof; FIG. 6 is a right side elevation view thereof; FIG. 7 is a top plan view thereof; and, FIG. 8 is a bottom plan view thereof.

1 Claim, 6 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

275,236 A * 4/1883 Marbach F42B 6/003
473/586
2,116,304 A * 5/1938 Crespin A63B 67/187
473/580
D115,139 S * 6/1939 Cohan D2/895
2,556,029 A * 6/1951 Cohan A63B 67/19
473/580
2,911,219 A * 11/1959 Arokiasamy A63B 67/187
473/580
D186,848 S * 12/1959 Diercks 473/580



(56)

References Cited

U.S. PATENT DOCUMENTS

2012/0181973 A1* 7/2012 Lyden B60L 11/182
320/101
2015/0164047 A1* 6/2015 Watts A23K 1/004
426/92

FOREIGN PATENT DOCUMENTS

FR 364230 A * 8/1906 A63B 67/18
FR 1124635 A * 10/1956 A41G 1/00
FR 1530567 A * 6/1968 A63B 67/18
FR 2646356 A1 * 11/1990 A63B 67/18
FR 2686026 A1 * 7/1993 A63B 67/183
FR CH 688226 A5 * 6/1997 A63B 67/183
GB 2096473 A * 10/1982 A63B 67/18
JP WO 2011021512 A1 * 2/2011 A63B 67/18

* cited by examiner

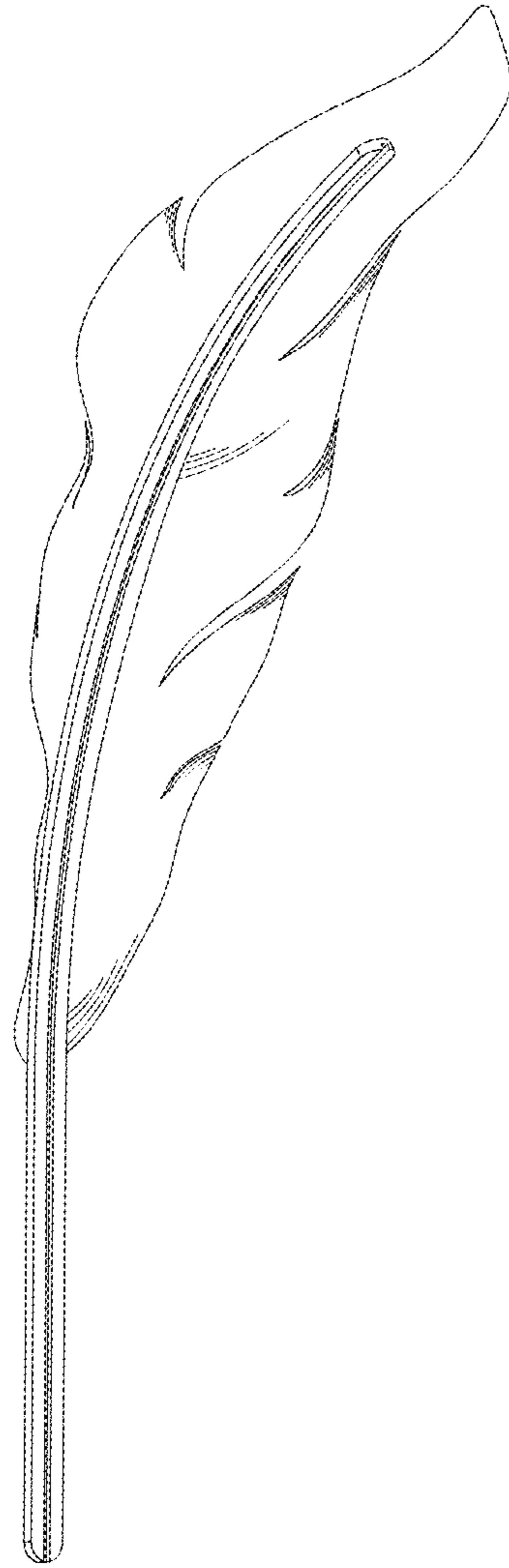


FIG. 1

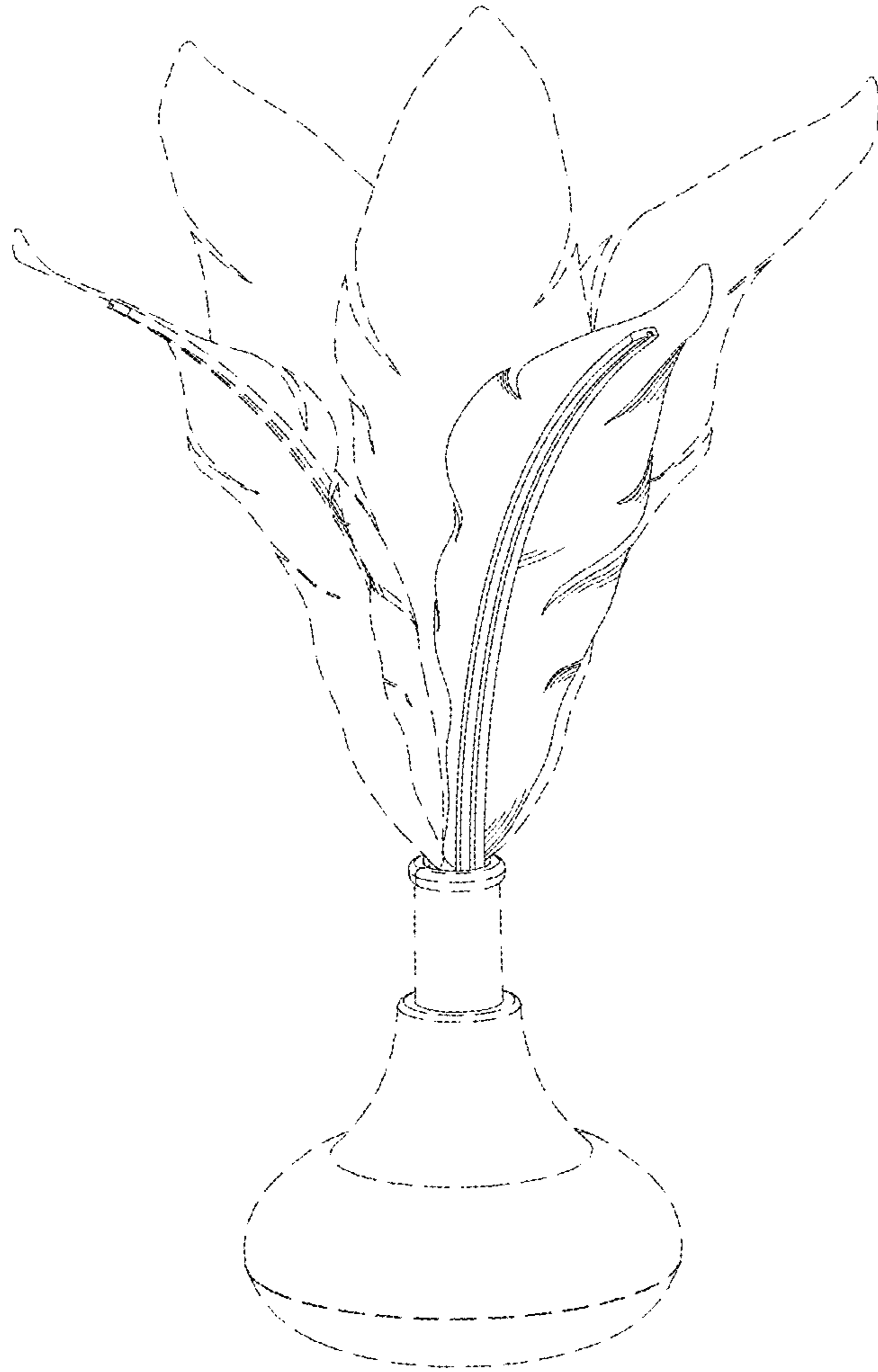


FIG. 2

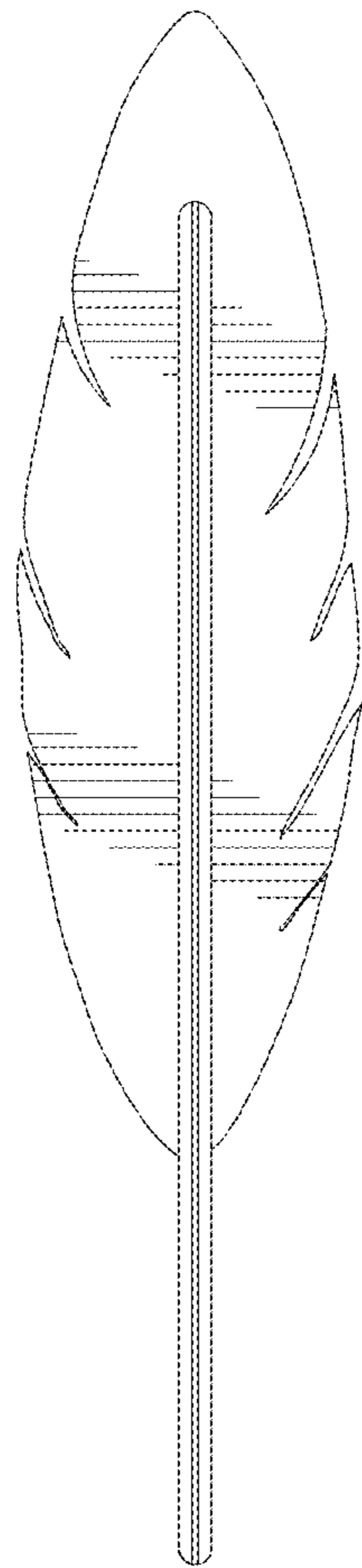


FIG. 3

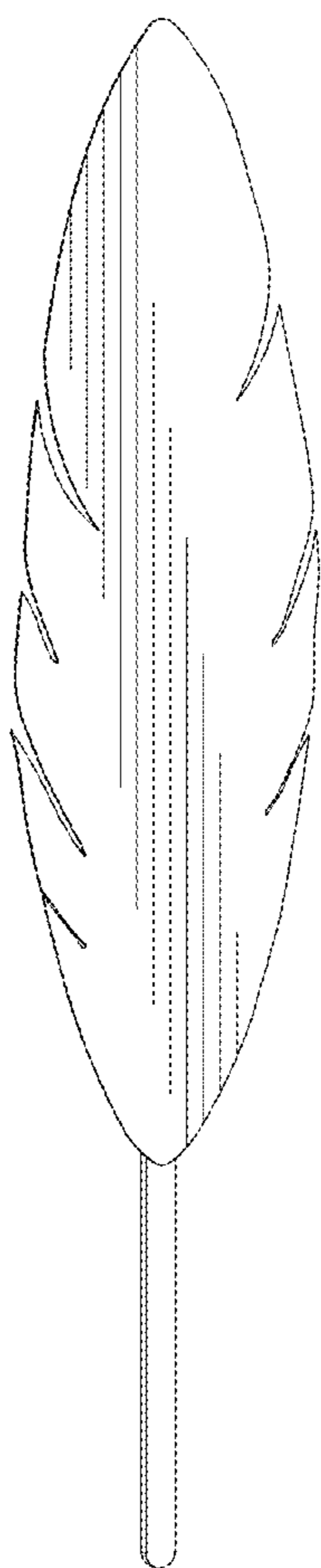


FIG. 4



FIG. 5



FIG. 6

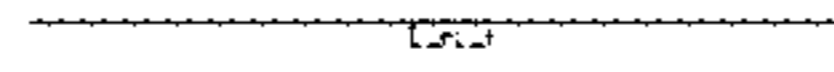


FIG. 7

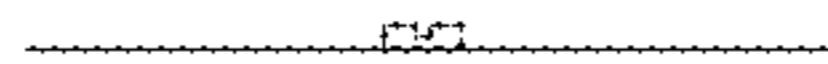


FIG. 8