



US00D807509S

(12) **United States Design Patent**
Moulton et al.

(10) **Patent No.:** **US D807,509 S**
(45) **Date of Patent:** **** Jan. 9, 2018**

(54) **REPLACEABLE FILTER ELEMENT**

(71) Applicant: **Sleepnet Corporation**, Hampton, NH (US)

(72) Inventors: **Thomas M. Moulton**, Rye, NH (US);
Jerry J. Gong, Andover, MA (US)

(73) Assignee: **Sleepnet Corporation**, Hampton, NH (US)

(**) Term: **15 Years**

(21) Appl. No.: **29/570,189**

(22) Filed: **Jul. 6, 2016**

(51) **LOC (11) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/164**

(58) **Field of Classification Search**
USPC D24/110-110.6, 162, 164; D11/7
CPC A62B 23/02; B01D 35/30; B01D 35/306;
B01D 29/15; B01D 2201/40; B01D
2201/4007; B01D 2201/4015; B01D
2201/4023; B01D 2201/4053; B01D
2201/4061; F16L 37/252

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D161,337 S * 12/1950 Hill D24/110.1
2,578,007 A * 12/1951 Hill A41D 13/11
128/206.17
2,845,926 A * 8/1958 Hill A62B 23/025
128/206.17
2,845,927 A * 8/1958 Hill A62B 23/025
128/206.17
3,014,479 A * 12/1961 Matheson A41D 13/1146
128/206.15
D270,110 S * 8/1983 Moore 128/201.15
D270,957 S * 10/1983 Maryyanek D24/110.4

4,592,350 A * 6/1986 Maryyanek A62B 23/02
128/206.17
4,630,604 A * 12/1986 Montesi A41D 13/1146
128/206.15
4,867,148 A * 9/1989 Gomez A41D 13/11
128/202.28
D322,492 S * 12/1991 Walczewski D2/500
D352,553 S * 11/1994 Shirley D24/110
6,817,362 B2 11/2004 Gelinis et al.
D695,889 S * 12/2013 Bruggeman D24/110.5
2009/0151734 A1 6/2009 Park
2015/0238783 A1* 8/2015 Nguyen A62B 18/084
128/205.27

(Continued)

FOREIGN PATENT DOCUMENTS

CN 103706055 A 4/2014
KR 1020060039128 5/2006

(Continued)

Primary Examiner — Sheryl Lane
Assistant Examiner — Calvin E Vansant
(74) *Attorney, Agent, or Firm* — Pierce Atwood LLP;
Kevin M. Farrell; David J. Wilson

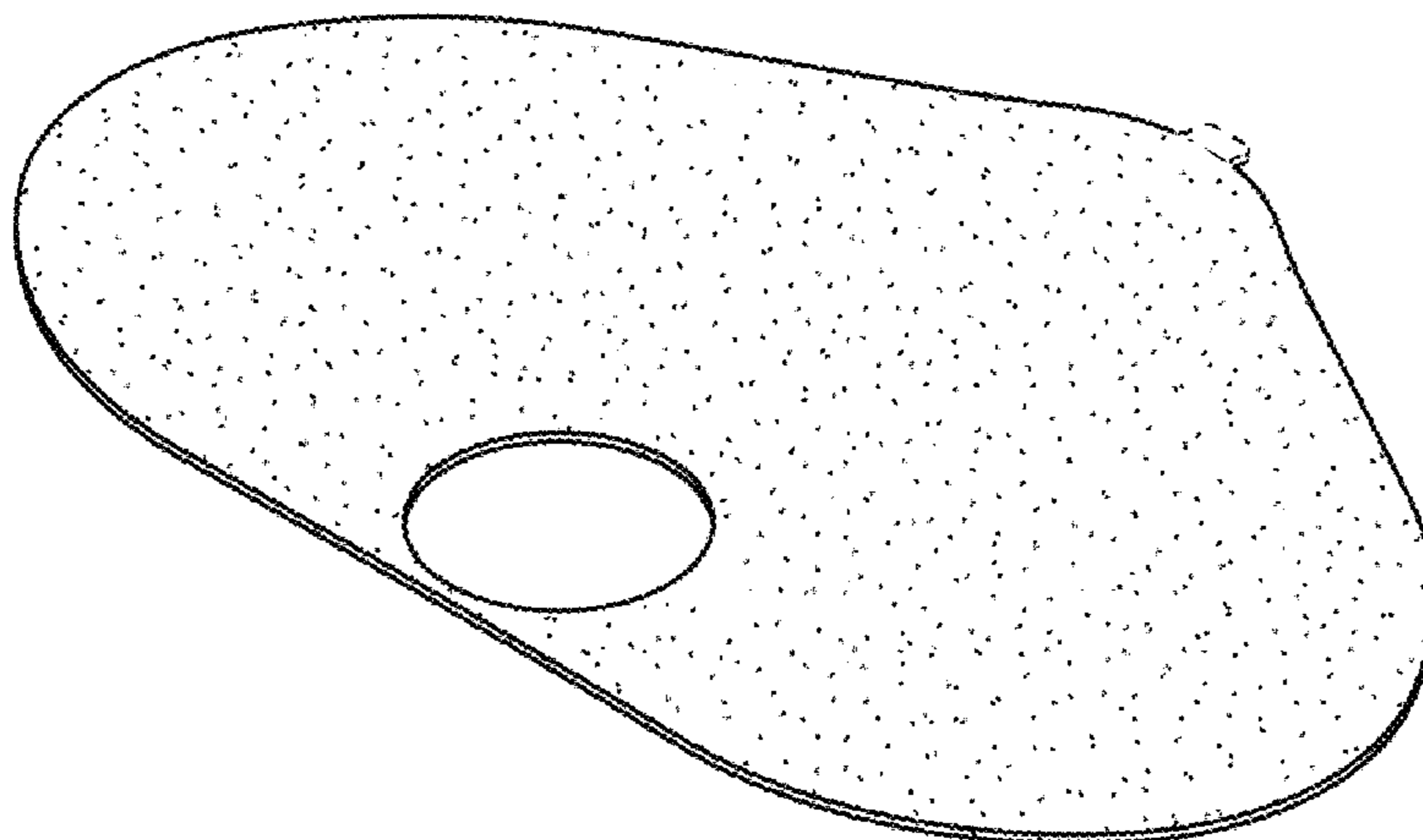
(57) **CLAIM**

The ornamental design for a replaceable filter element, as shown and described.

DESCRIPTION

FIG. 1 is front view of the replaceable filter element, the front and rear views being identical;
FIG. 2 is a top view of the replaceable filter element;
FIG. 3 is a bottom view of the replaceable filter element;
FIG. 4 is a side view of the replaceable filter element, the left and right sides being identical; and,
FIG. 5 is a perspective view of the replaceable filter element. The broken lines depict portions of the replaceable filter element that form no part of the claim.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2016/0263409 A1* 9/2016 Lee A62B 9/04

FOREIGN PATENT DOCUMENTS

WO 2010064862 A2 6/2010
WO 2012070805 A2 5/2012
WO 2015006679 A2 1/2015
WO 2015168077 A1 11/2015

* cited by examiner

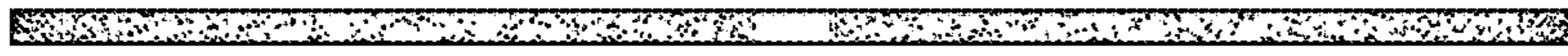


FIG. 2

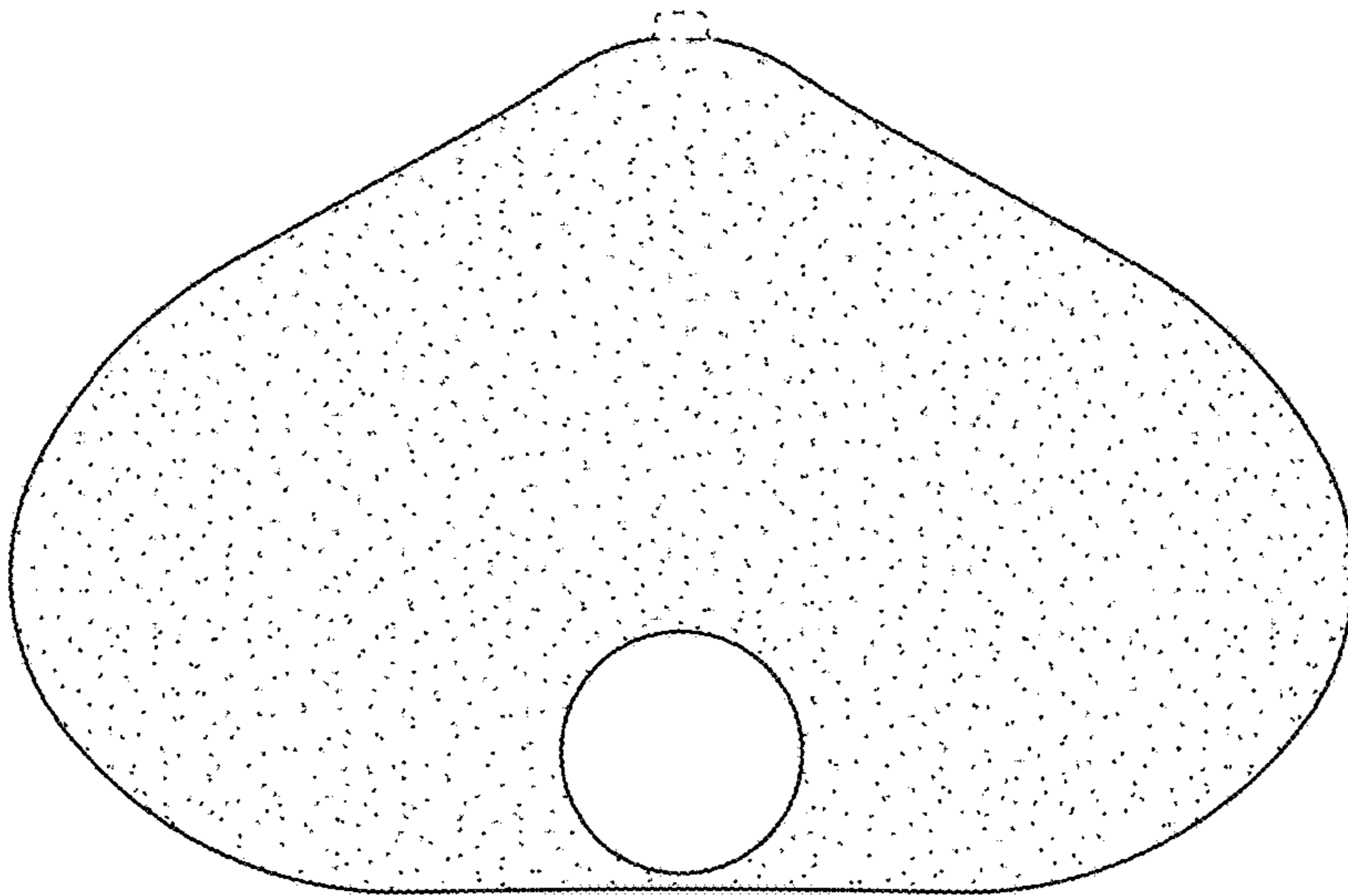


FIG. 1



FIG. 4

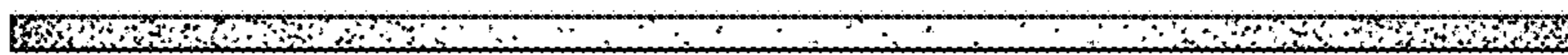


FIG. 3

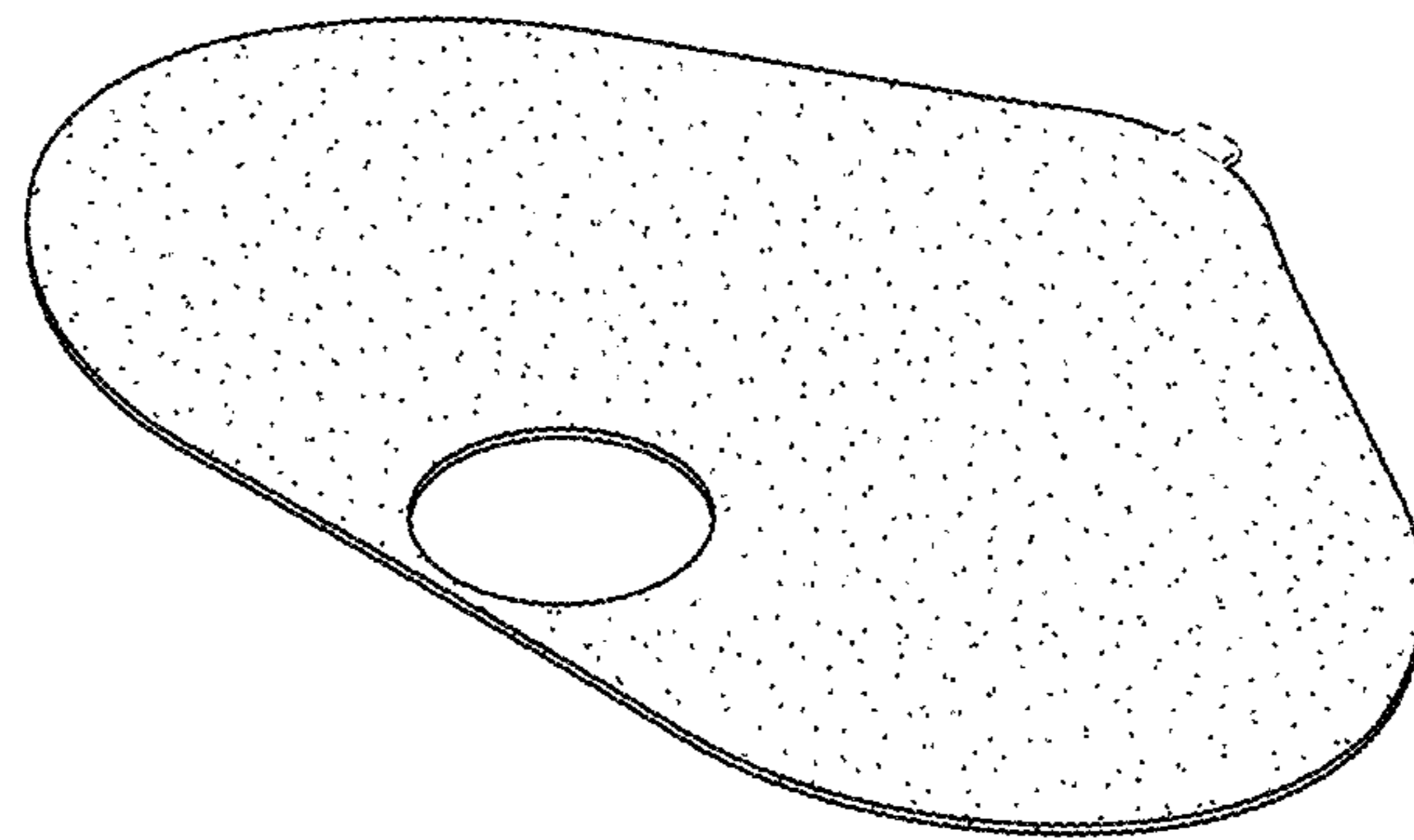


FIG. 5

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : D807,509 S
APPLICATION NO. : 29/570189
DATED : January 9, 2018
INVENTOR(S) : T. M. Moulton and J. J. Gong

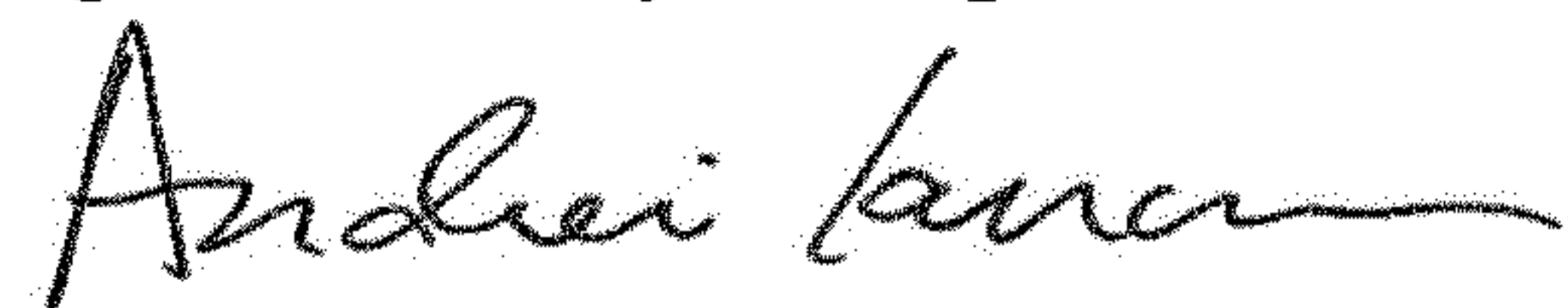
Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

Column 2, Line 24 please replace in the description of Fig. 1 with the following, replace --filer-- with with the word "filter".

Signed and Sealed this
Eighteenth Day of September, 2018



Andrei Iancu
Director of the United States Patent and Trademark Office