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

(10) **Patent No.:** **US D969,621 S**

(45) **Date of Patent:** **** Nov. 15, 2022**

(54) **AIR QUALITY DETECTING DEVICE**

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(73) Assignee: **CARRIER CORPORATION**, Palm Beach Gardens, FL (US)

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (13) Cl.** **10-04**

(52) **U.S. Cl.**
USPC **D10/52; D10/53**

(58) **Field of Classification Search**
USPC D10/52, 53
CPC G01N 1/2273; G01N 2001/2276; G01N 2001/2279; G01N 7/00; G01N 7/02; G01N 7/04; G01N 7/06; G01N 7/08; G01N 7/10; G01N 7/12; G01N 7/14; G01N 7/16; G01N 7/18; G01N 7/20; G01N 7/22; G01N

(Continued)

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Primary Examiner — Antoine Duval Davis

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

(57) **CLAIM**

The ornamental design for an air quality detecting device, as shown and described.

DESCRIPTION

FIG. 1 is a front elevation view of an air quality detecting device, showing our new design;

FIG. 2 is a rear elevation view of the embodiment shown in FIG. 1;

FIG. 3 is a left-side elevation view of the embodiment shown in FIG. 1;

FIG. 4 is a right-side elevation view of the embodiment shown in FIG. 1

FIG. 5 is top-down plan view of the embodiment shown in FIG. 1;

FIG. 6 is a bottom-up plan view of the embodiment shown in FIG. 1;

FIG. 7 is a first perspective view of the embodiment shown in FIG. 1;

FIG. 8 is a second perspective view of the embodiment shown in FIG. 1;

FIG. 9 is a first view of the air quality detecting device in a first state of use;

FIG. 10 is a second view of the air quality detecting device in a second state of use;

FIG. 11 is a third view of the air quality detecting device in a third state of use;

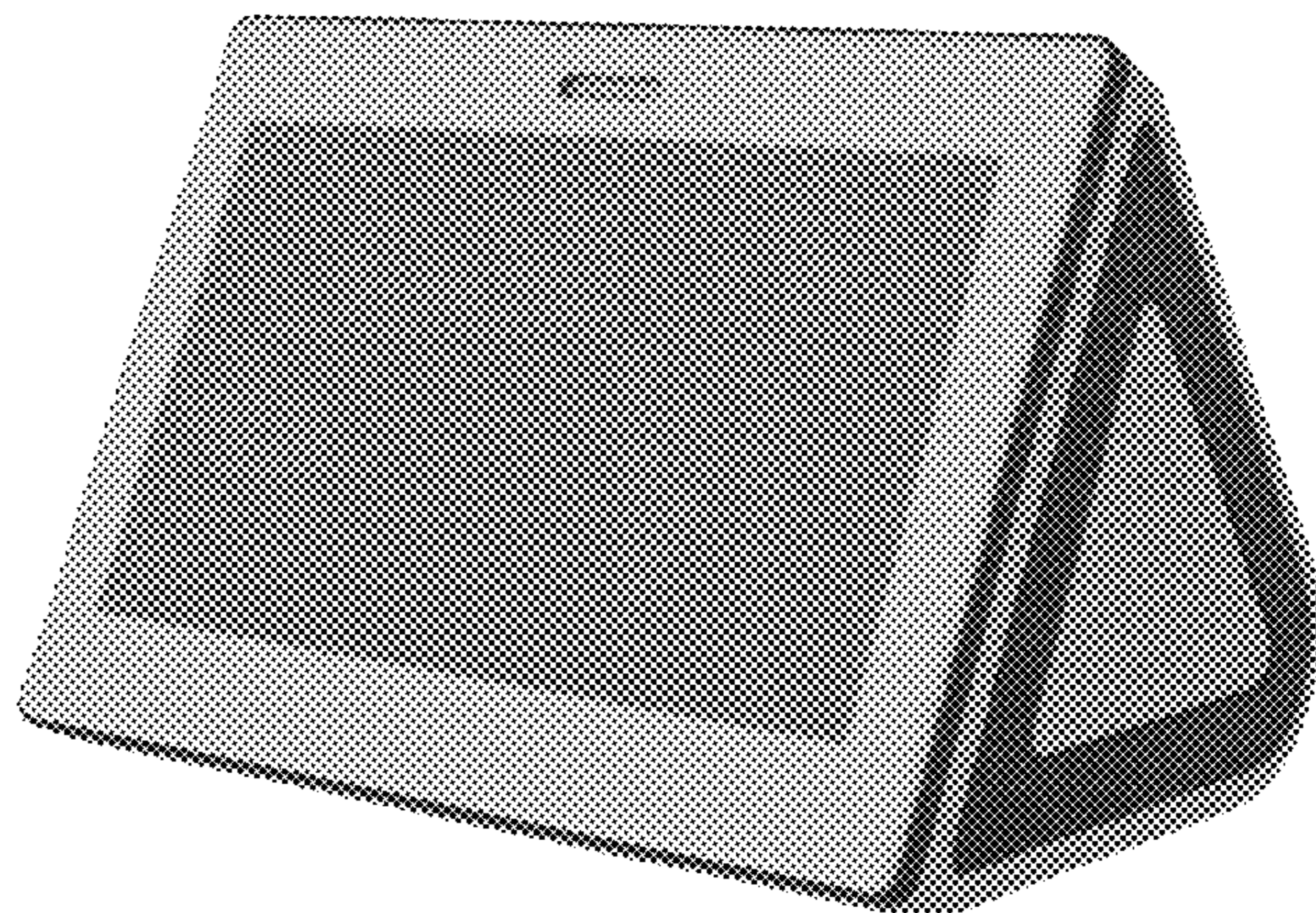
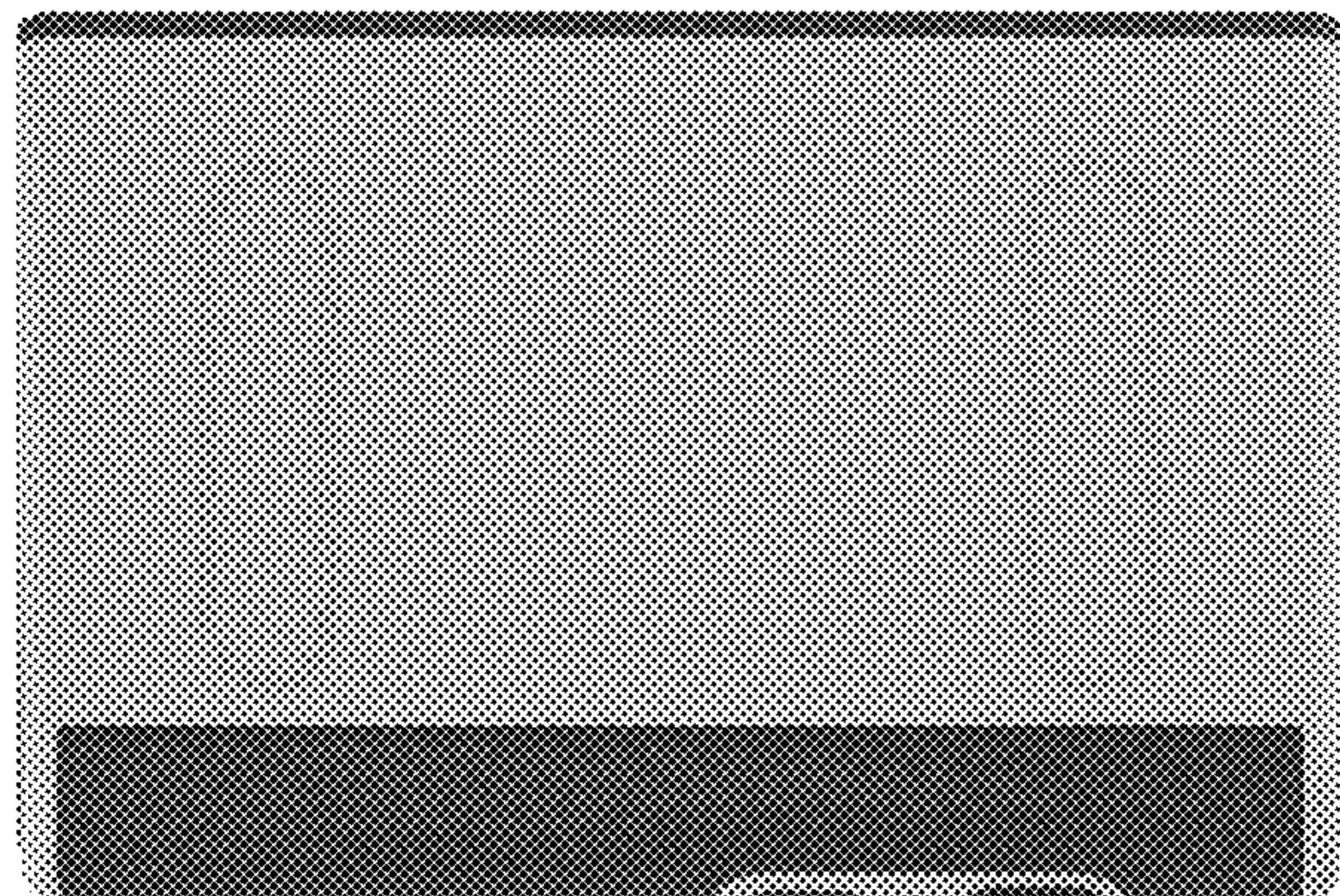
FIG. 12 is a fourth view of the air quality detecting device in a fourth state of use;

FIG. 13 is a fifth view of the air quality detecting device in a fifth state of use;

FIG. 14 is a sixth view of the air quality detecting device in a sixth state of use; and,

FIG. 15 is a seventh view of the air quality detecting device in a seventh state of use.

(Continued)



Broken lines in the figures represent the bounds of the claimed design and form no part thereof.

1 Claim, 5 Drawing Sheets

(58) Field of Classification Search

CPC . 33/009; G01N 2033/0077; G01N 2003/0078;
G01N 2033/008; G01N 2033/0081; G01N
2033/0083; G01N 2033/0085; G01N
2033/0086; G01N 2033/0088; G01N
33/0075; G01N 1/22; G01N 1/2202;
G01N 1/2205; G01N 1/2208; G01N
1/2211; G01N 1/2214; G01N 1/34; G01N
2015/0261; G01N 2015/0266; G01N
2015/0272; G01N 2015/0277; G01N
15/0255; H04B 17/23; F24F 11/0017;
F24F 2011/0019; F24F 2011/002; F24F
2011/0021; F24F 2011/0023; F24F
2011/0024; F24F 2011/0026; F24F
2011/0027; F24F 2011/0028; F24F
2011/003; F24F 2011/0031; F24F
2011/0032

See application file for complete search history.

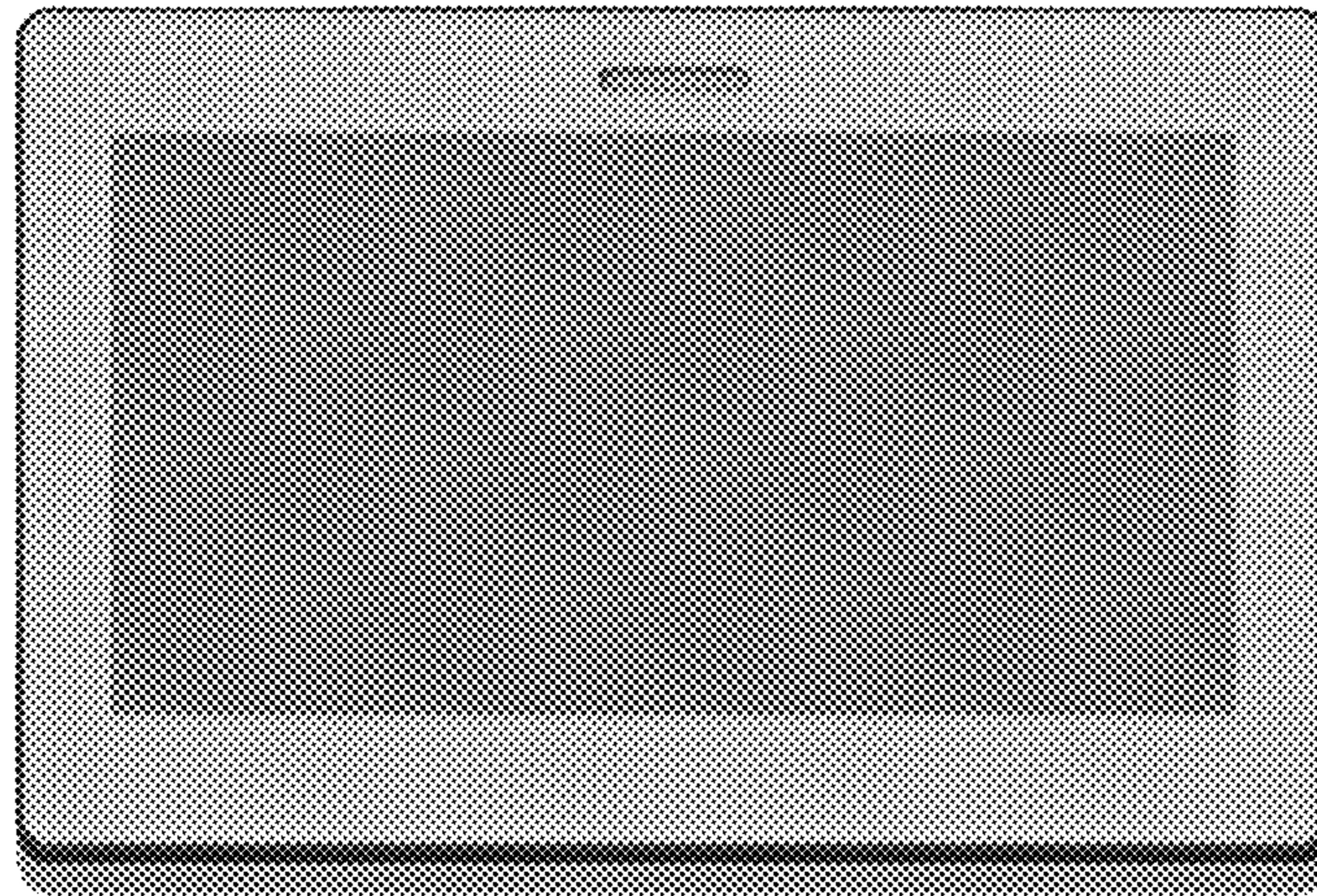


FIG. 1

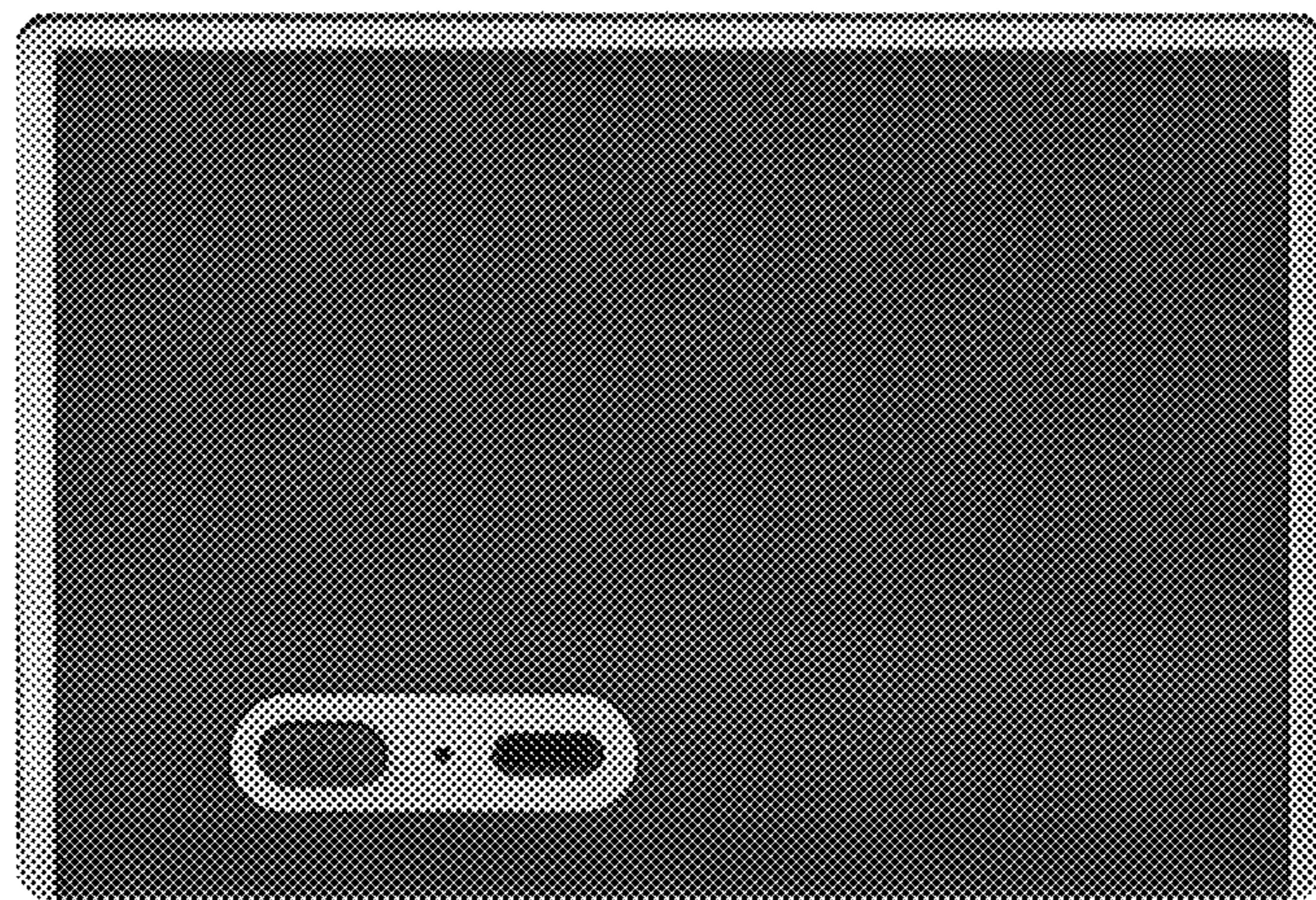


FIG. 2



FIG. 3



FIG. 4



FIG. 5

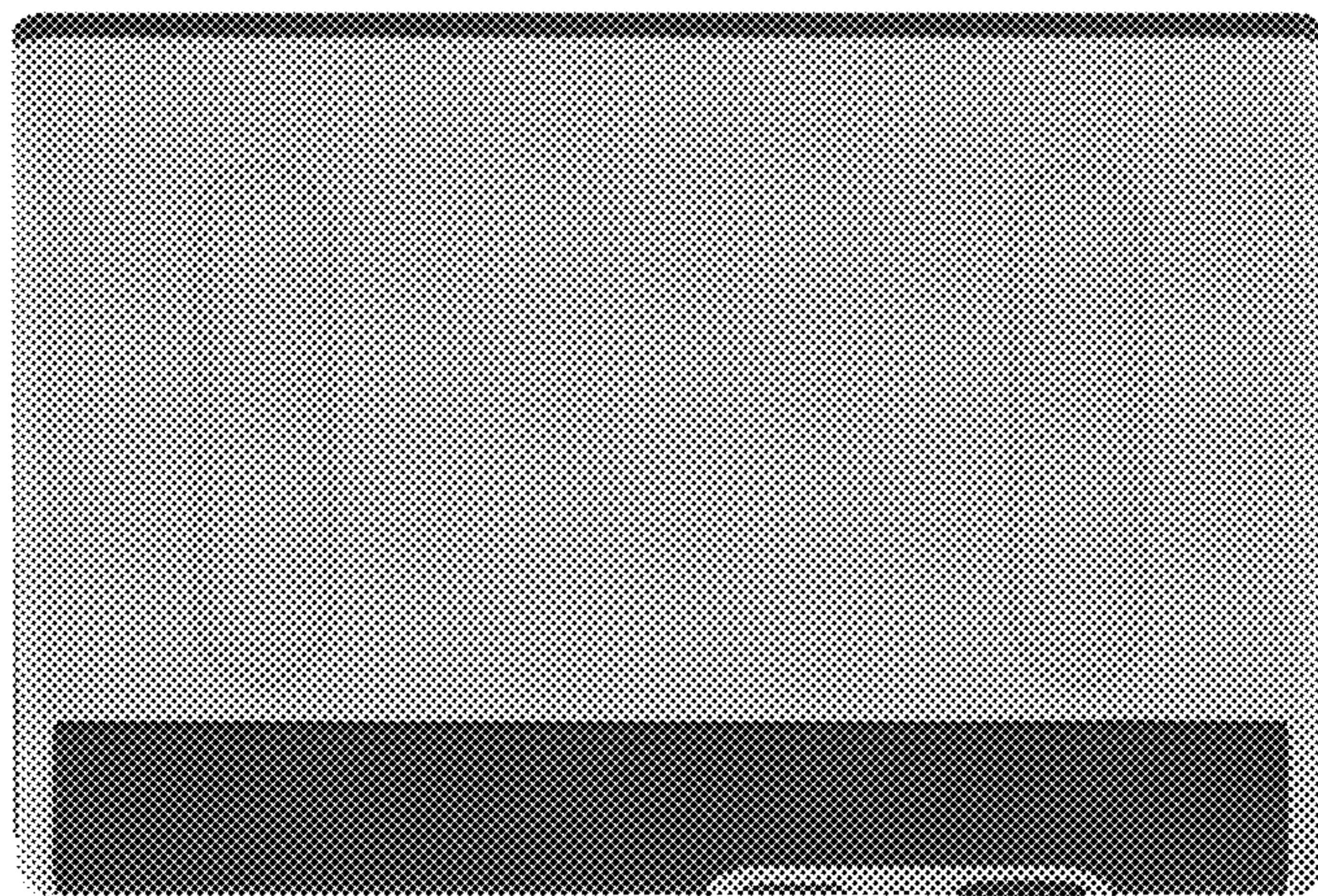


FIG. 6

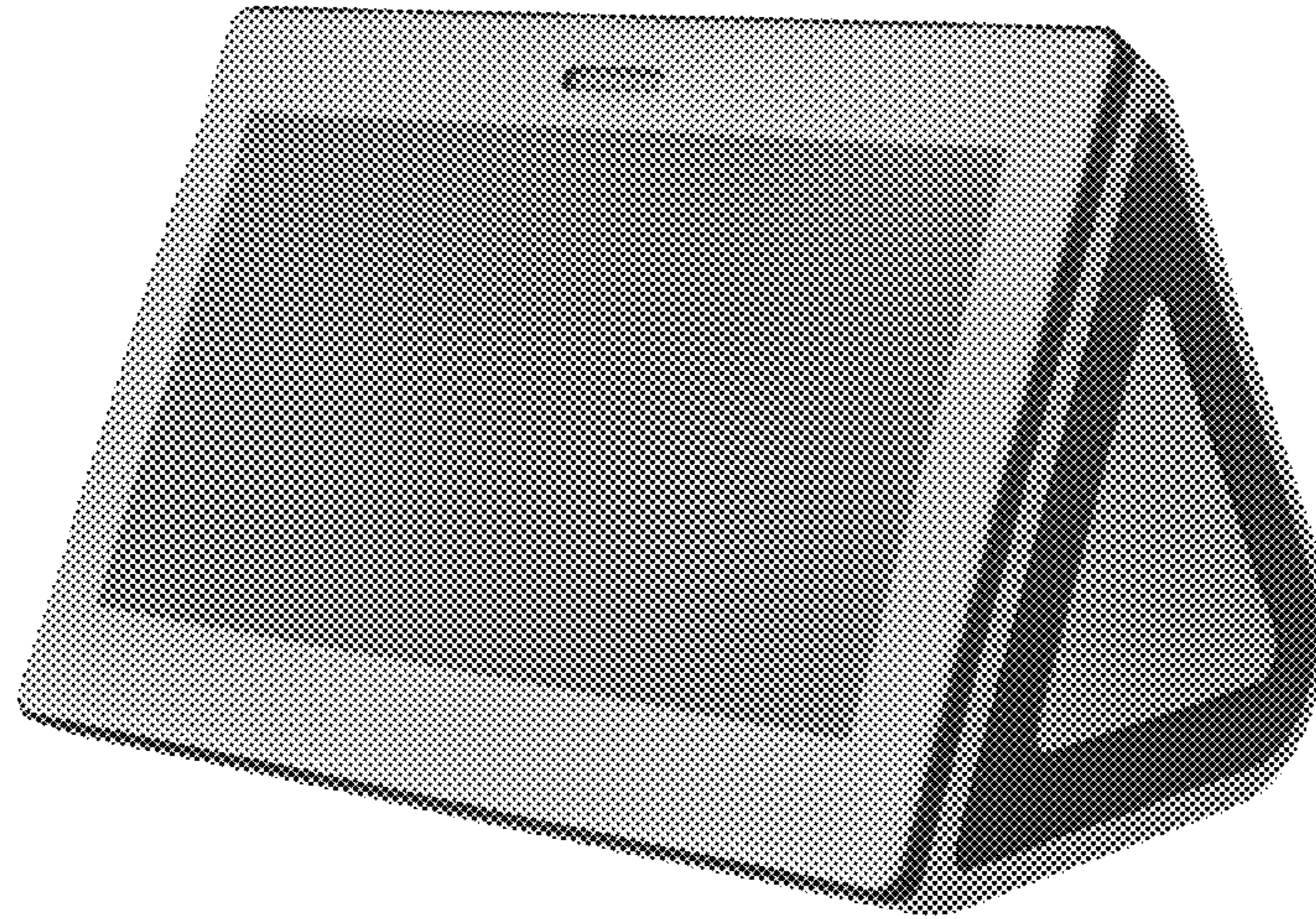


FIG. 7

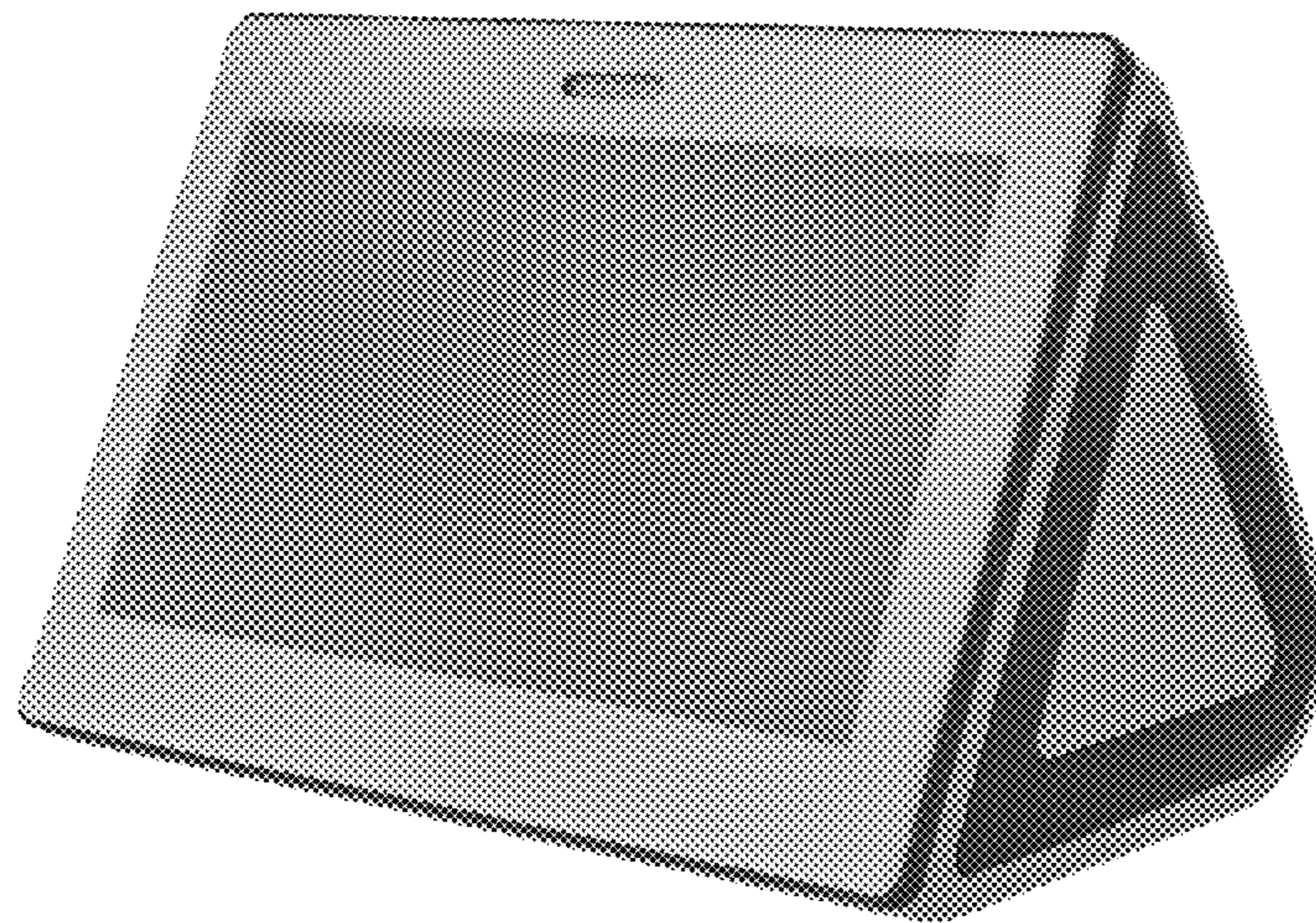


FIG. 8

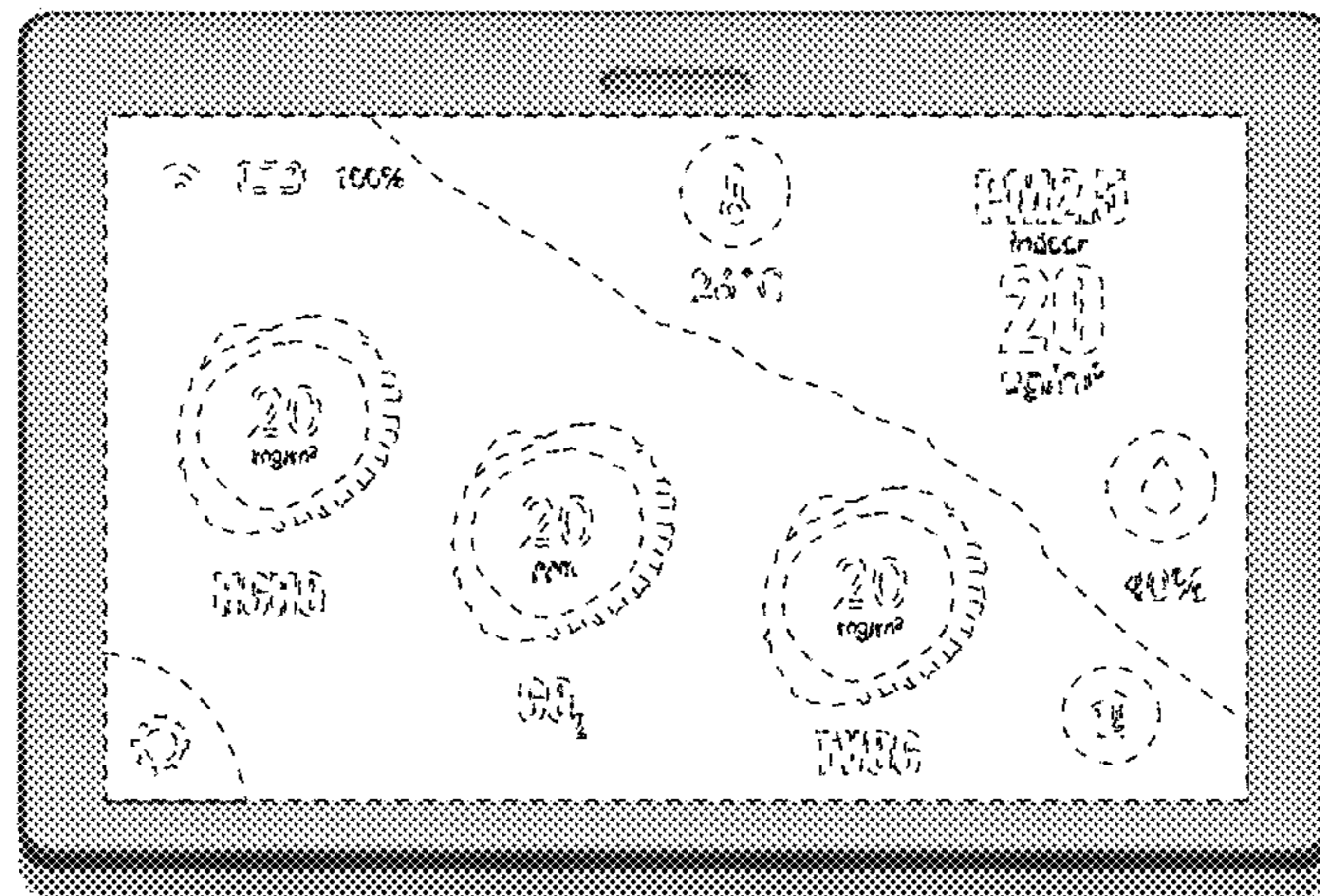


FIG. 9

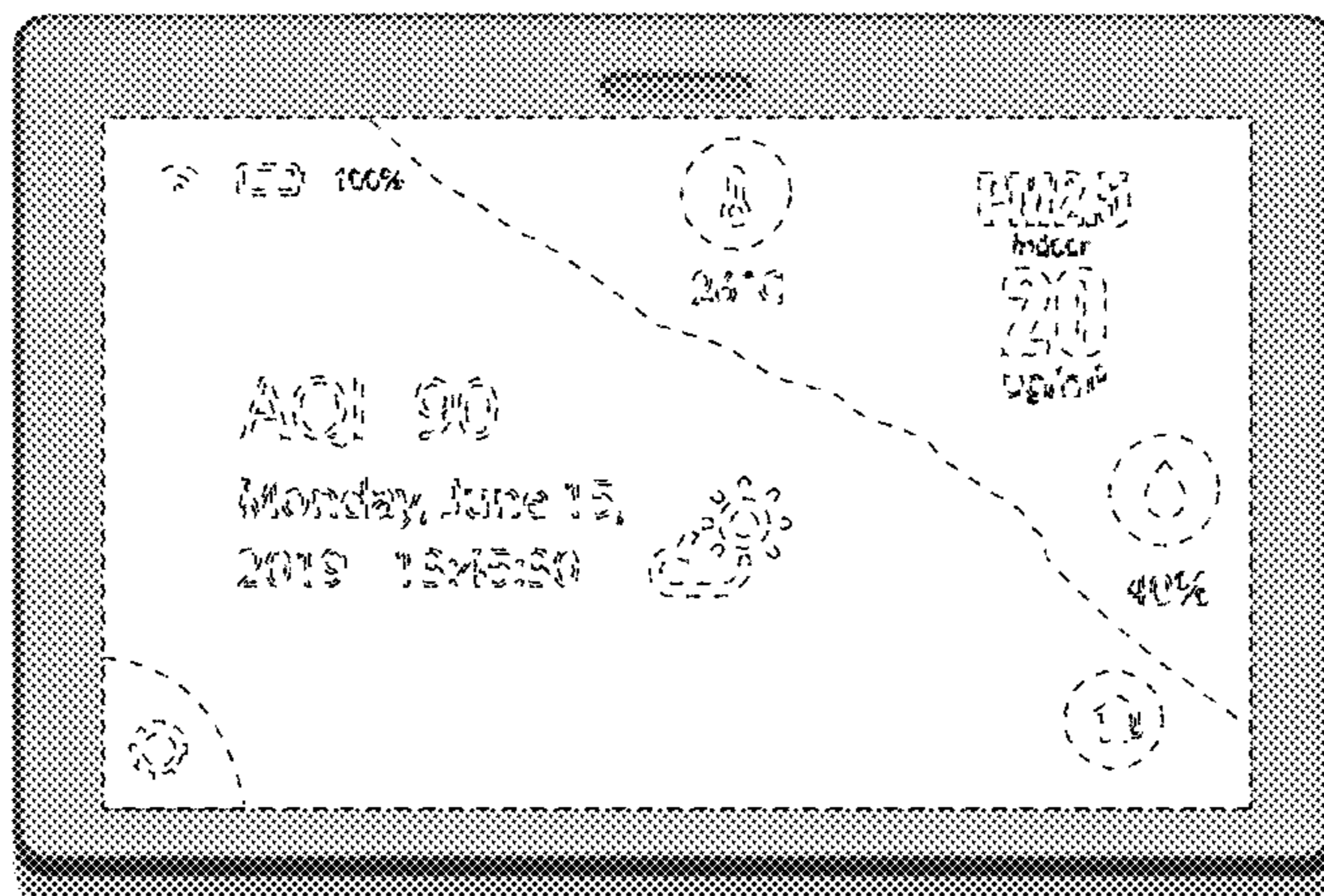


FIG. 10

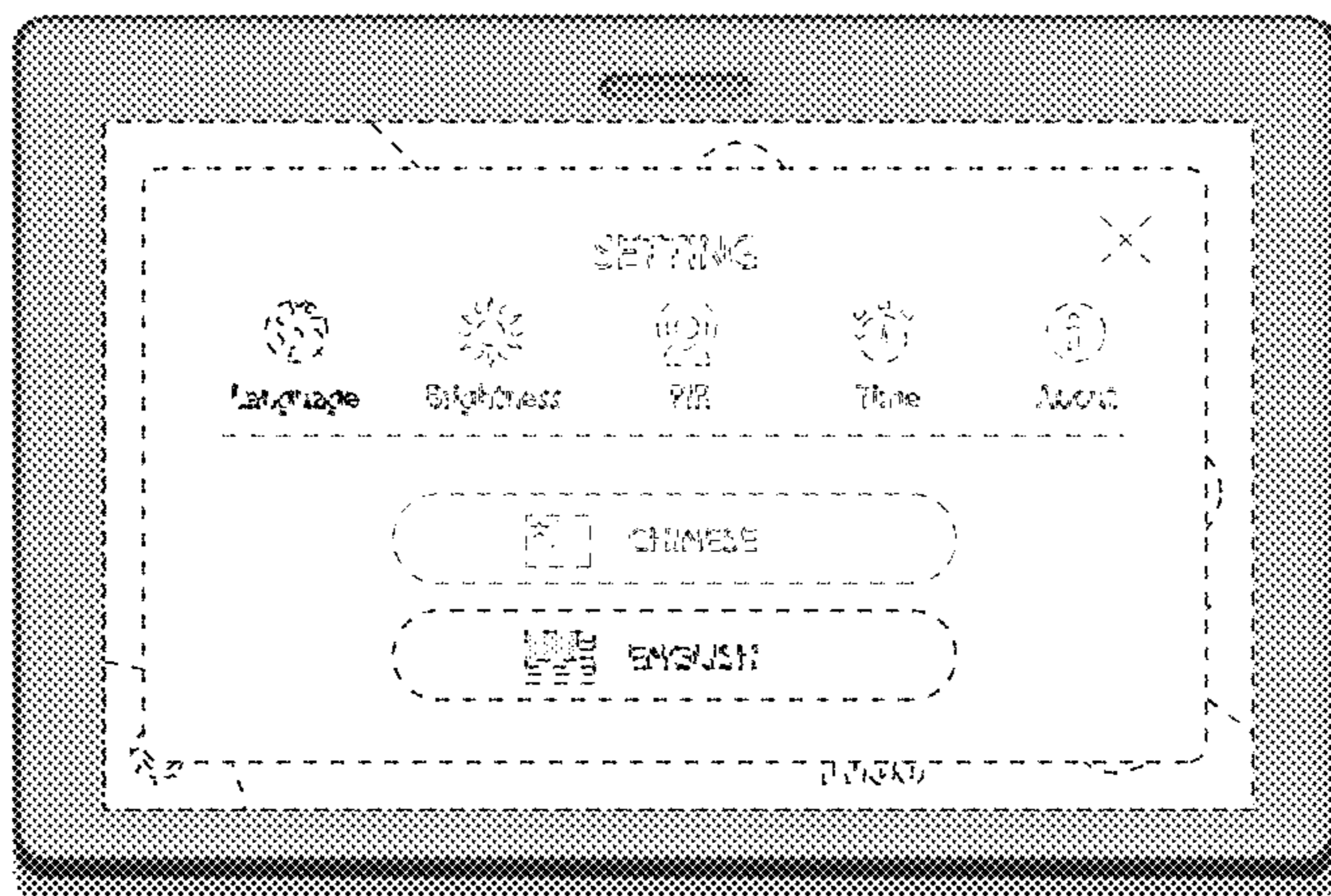


FIG. 11

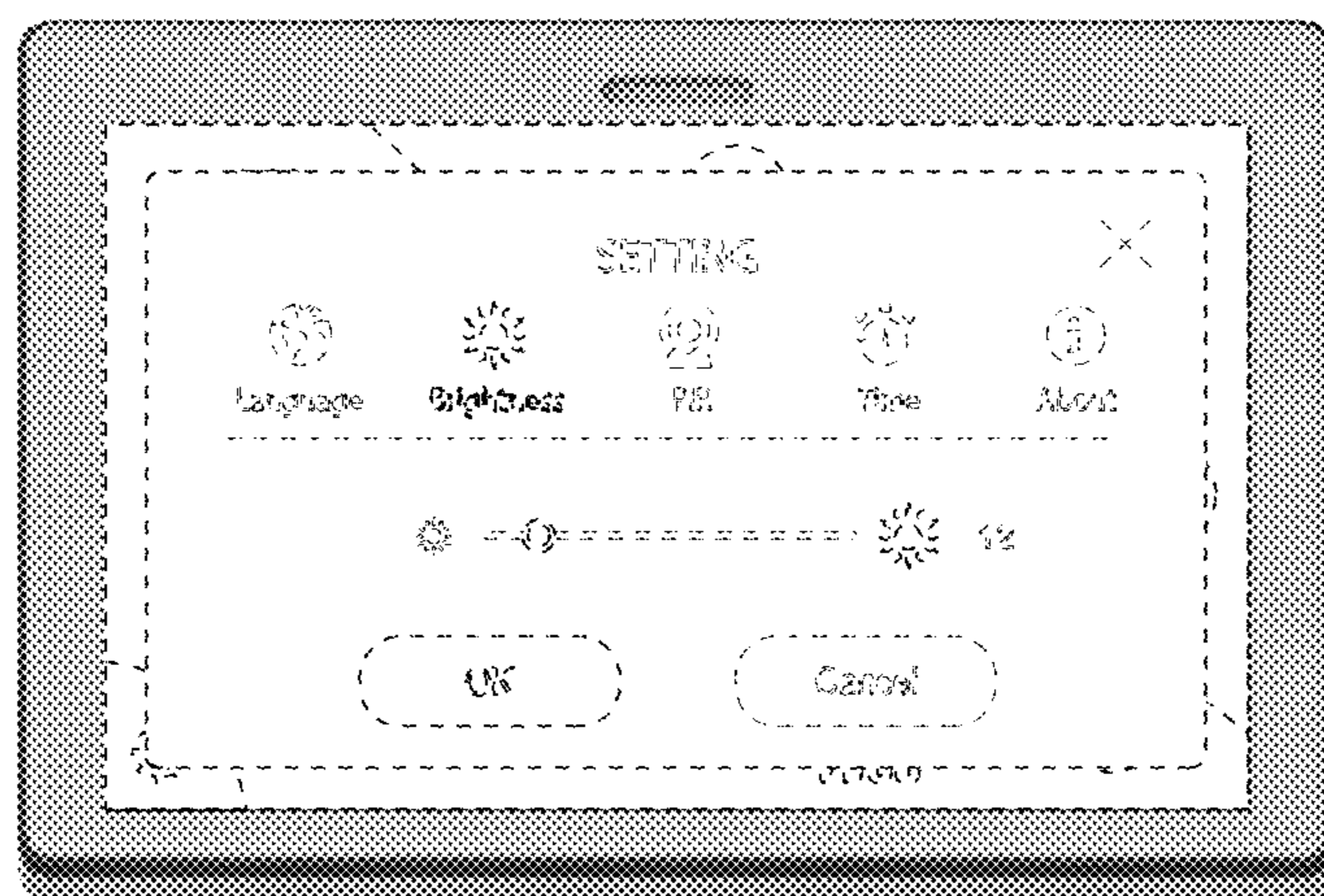


FIG. 12

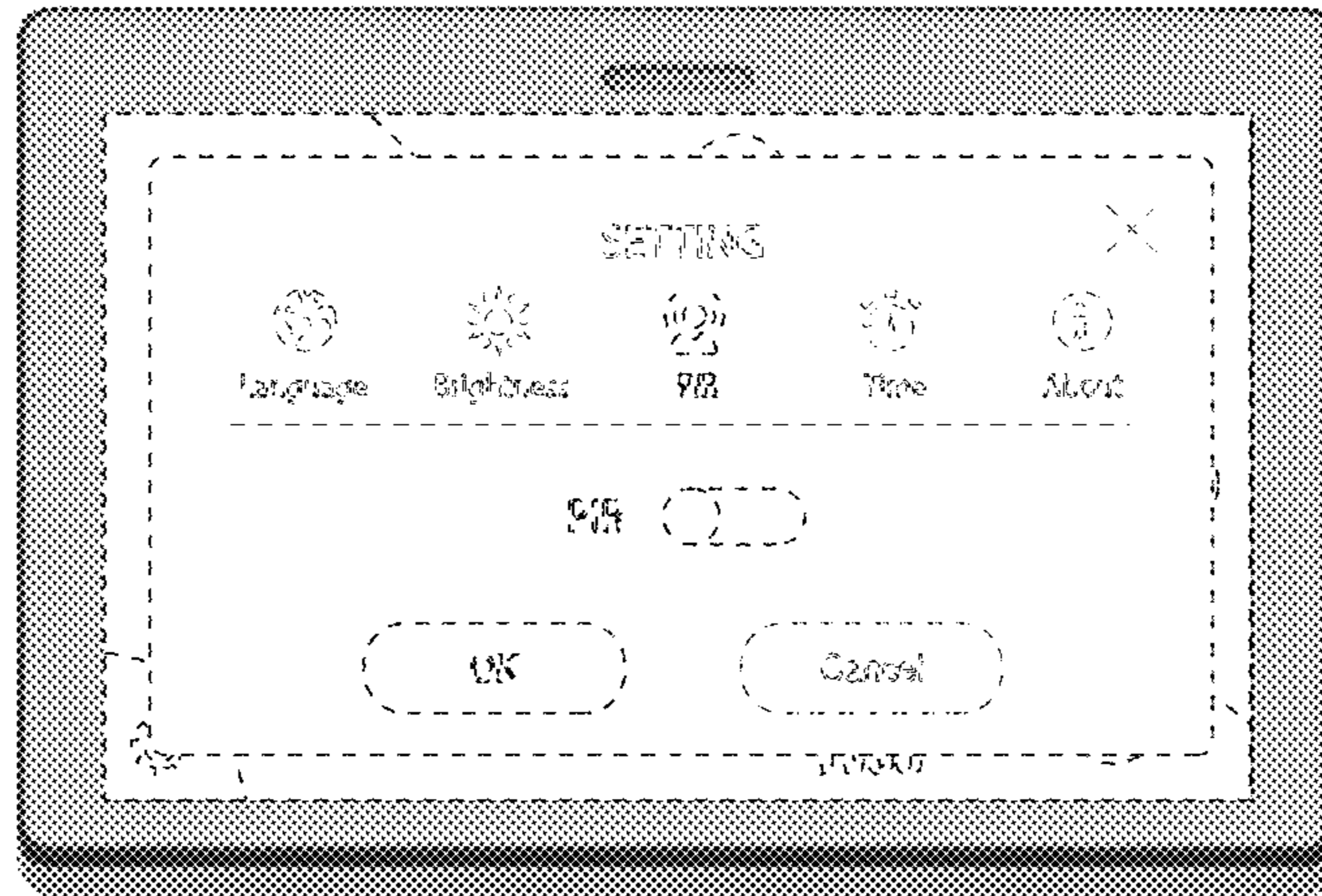


FIG. 13

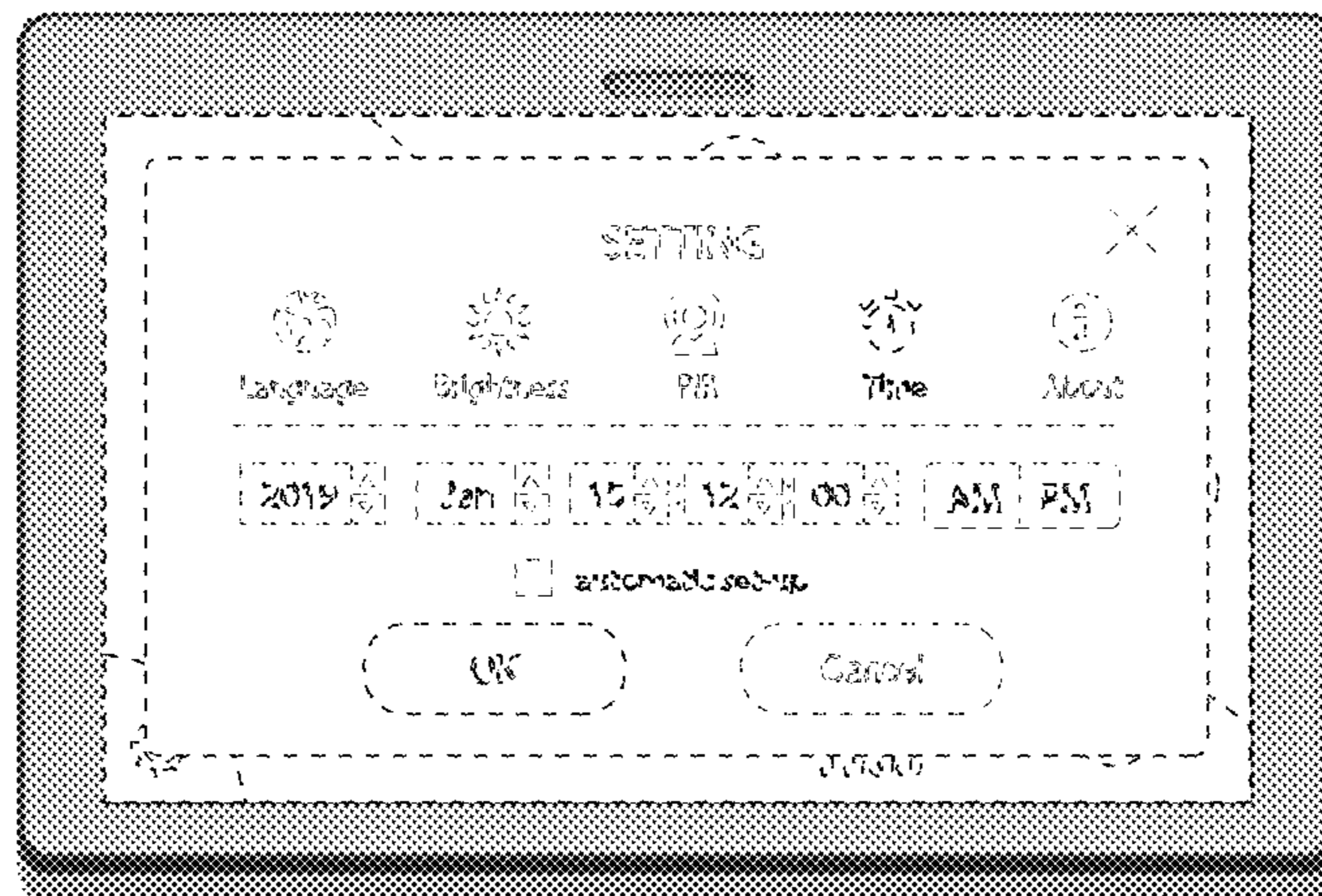


FIG. 14

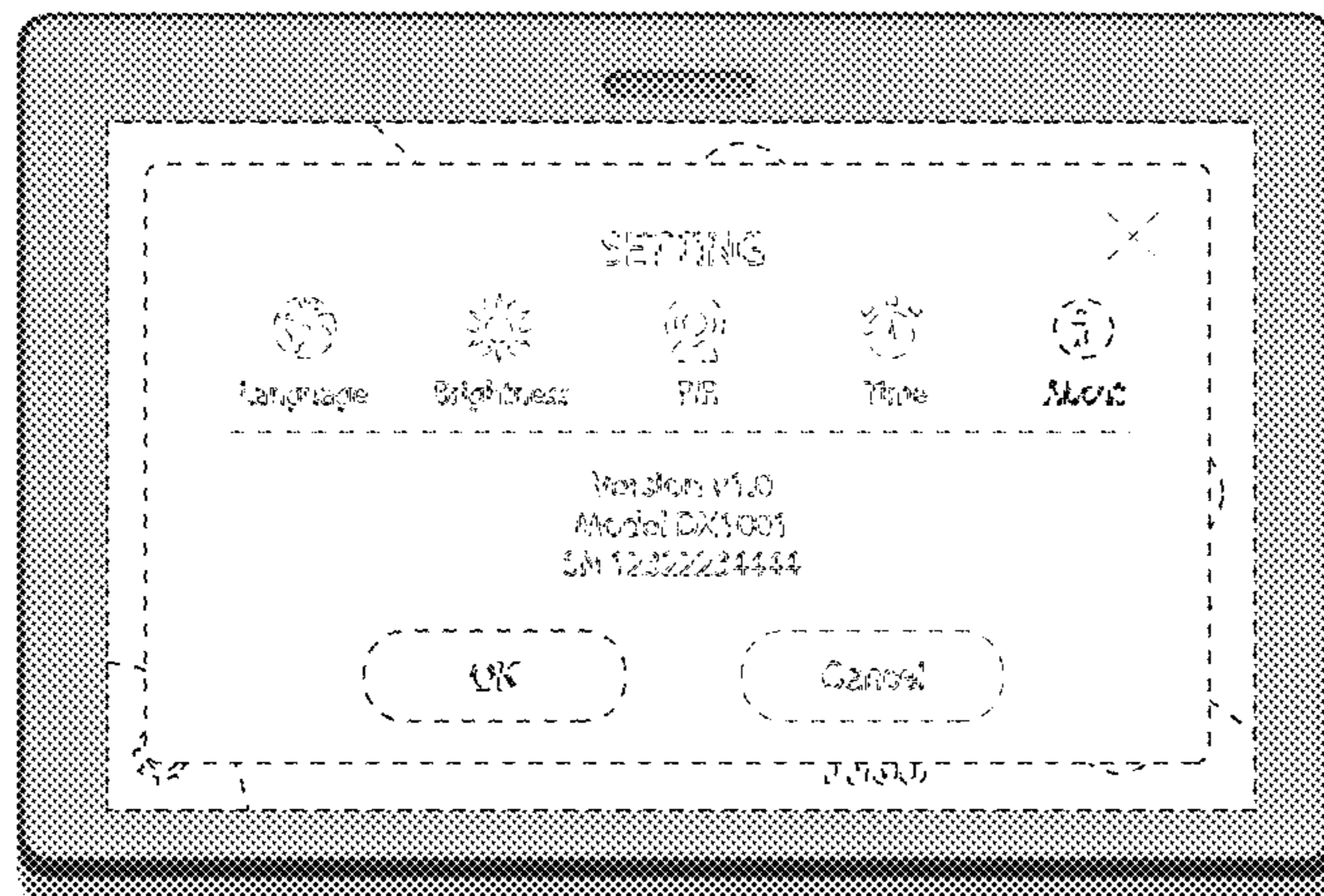


FIG. 15