



US00D911344S

(12) **United States Design Patent** (10) **Patent No.:** **US D911,344 S**  
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(54) **THREE-DIMENSIONAL SCANNER**

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(51) **LOC (13) Cl.** ..... **14-02**

(52) **U.S. Cl.**  
USPC ..... **D14/420**

(58) **Field of Classification Search**

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CPC ..... H01L 27/14627; H01L 27/14621; H01L 21/67288; H01L 21/00; G06T 11/003; G06T 11/00; G06T 11/001; G06T 11/005; G06T 1/00; G06T 1/0007; G06T 3/80037;

G06T 3/0043; G06T 3/0056; G06T 3/0062; G06T 3/0087; G06T 3/20; G06T 3/40; G06T 3/60; G06T 3/602; G06T 3/604; G06T 3/606; G06T 3/608; G06T 5/009; G06T 5/10; G06T 5/20; G06T 5/40; G06T 5/50; G06T 7/0057; G06T 7/0061; G06T

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,910,601 A \* 3/1990 Gerlach ..... H04N 1/0411  
358/474  
5,140,141 A \* 8/1992 Inagaki ..... G06K 7/10  
235/462.43

(Continued)

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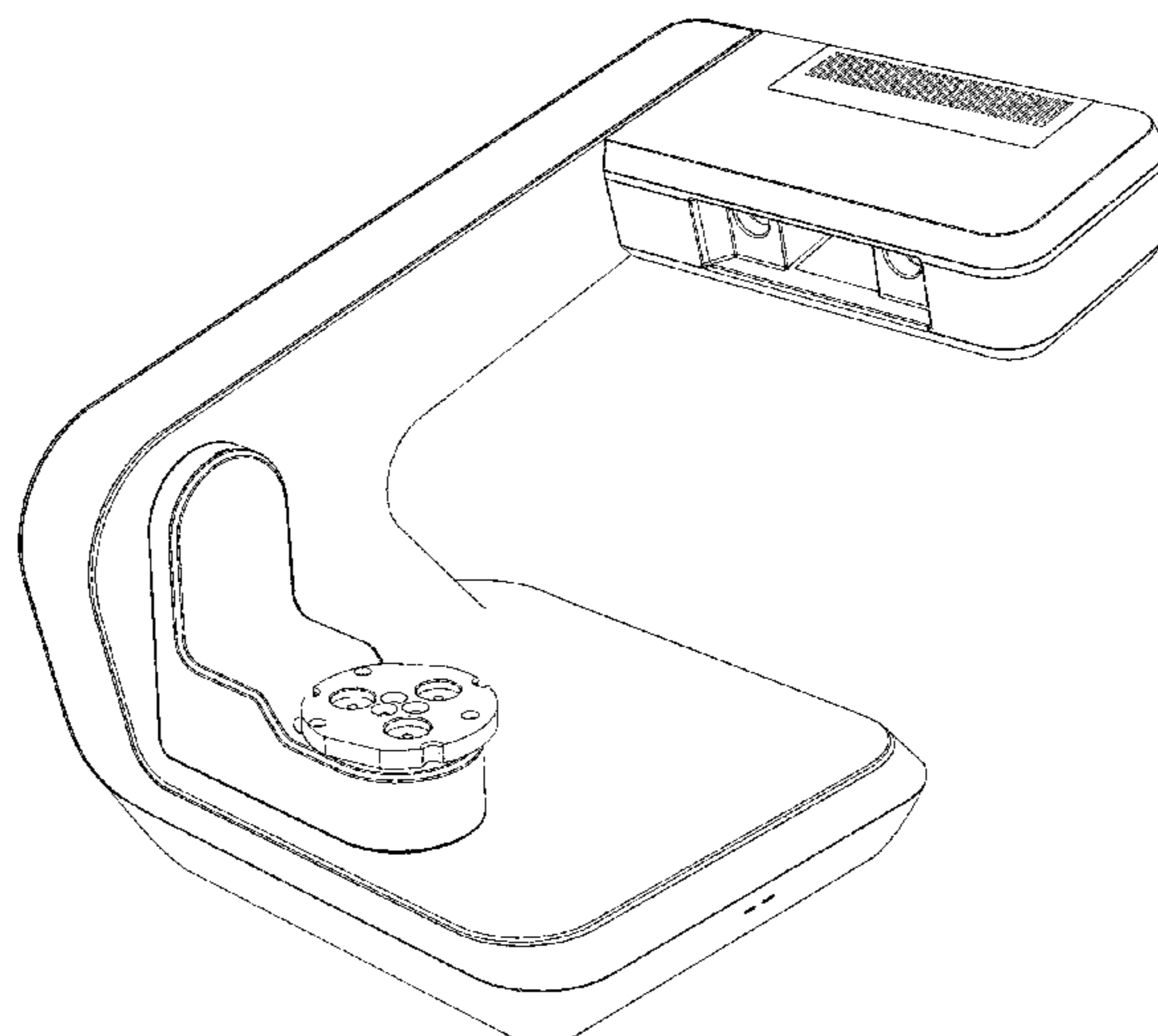
(57) **CLAIM**

The ornamental design for a three-dimensional scanner, as shown and described.

**DESCRIPTION**

FIG. 1 is a front, top, and right-side perspective view of a three-dimensional scanner;  
FIG. 2 is a front elevational view of the three-dimensional scanner shown in FIG. 1;  
FIG. 3 is a rear elevational view of the three-dimensional scanner shown in FIG. 1;  
FIG. 4 is a right elevational view of the three-dimensional scanner shown in FIG. 1;  
FIG. 5 is a left elevational view of the three-dimensional scanner shown in FIG. 1;  
FIG. 6 is a top plan view of the three-dimensional scanner shown in FIG. 1; and,  
FIG. 7 is a bottom plan view of the three-dimensional scanner shown in FIG. 1.

**1 Claim, 7 Drawing Sheets**



(58) **Field of Classification Search**

CPC .... 9/001; G02B 26/123; G02B 26/127; G02B  
26/101; G02B 27/0075; G02B 13/001;  
G02B 5/201; G02B 3/0056; H04N  
5/2254; H04N 5/23212; H04N 9/3185;  
H04N 9/3129; H04N 13/0253; H04N  
13/0221; G01B 11/2513; G01B 11/2518;  
G01B 11/2522; G01B 5/0002; G03F  
7/70483; G06K 9/3275; G06K 2209/19

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,659,404 A \* 8/1997 Matsuda ..... H04N 1/387  
358/474  
D388,404 S \* 12/1997 Kinnunen ..... D14/423  
5,894,529 A \* 4/1999 Ting ..... G01B 11/024  
358/474  
6,325,288 B1 \* 12/2001 Spitz ..... G06K 7/10673  
235/462.01  
8,284,234 B2 \* 10/2012 Bjelkhagen ..... G02B 27/0093  
348/40  
8,508,751 B1 \* 8/2013 Shen ..... G06T 3/40  
358/1.1  
D699,242 S \* 2/2014 Hu ..... D14/423  
D719,954 S \* 12/2014 Sun ..... D14/423  
D810,085 S \* 2/2018 Liu ..... D14/423  
2014/0071250 A1 \* 3/2014 Pan ..... H04N 13/211  
348/50  
2015/0109424 A1 \* 4/2015 Lee ..... A61C 9/006  
348/50

\* cited by examiner

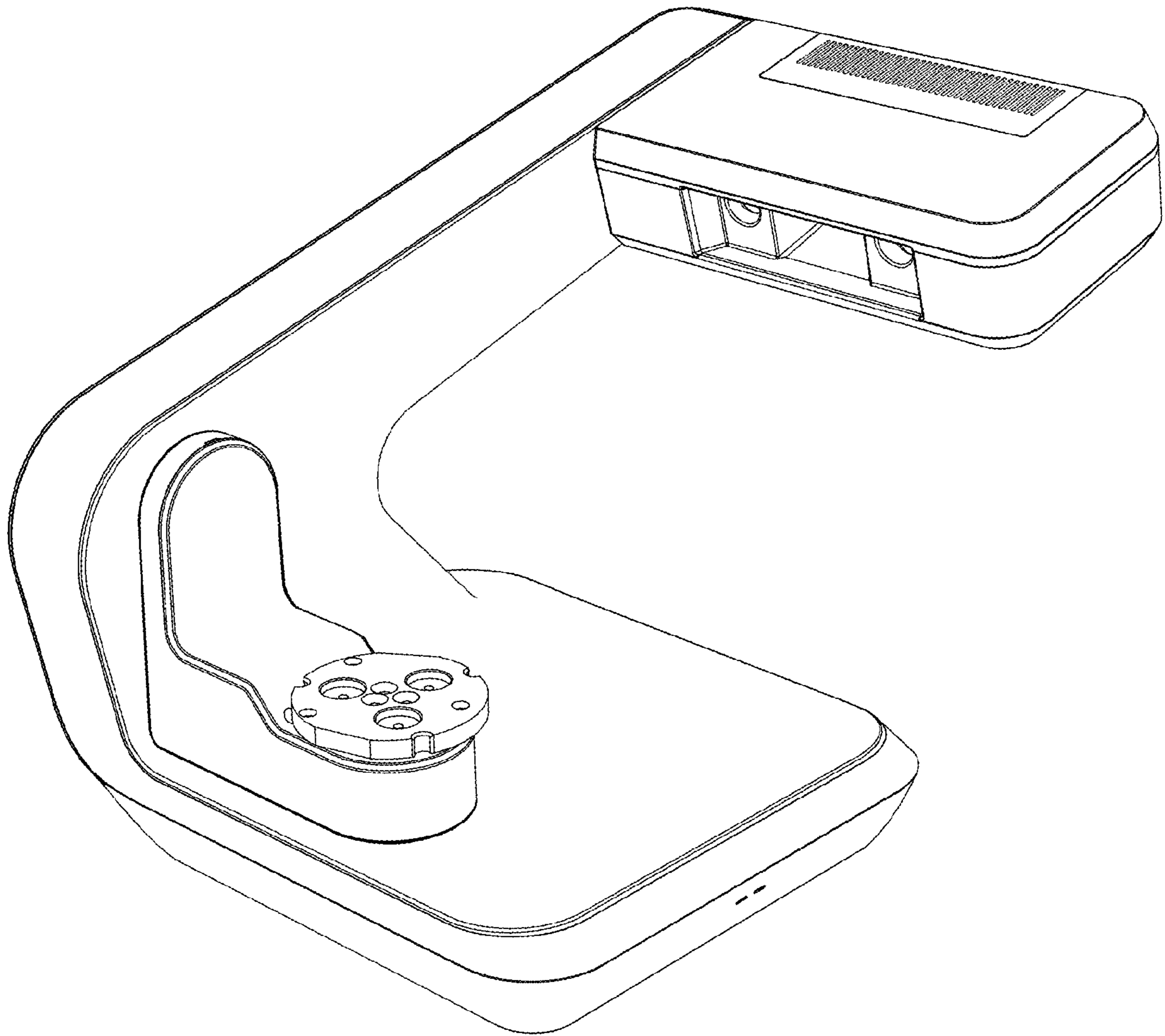


Figure 1

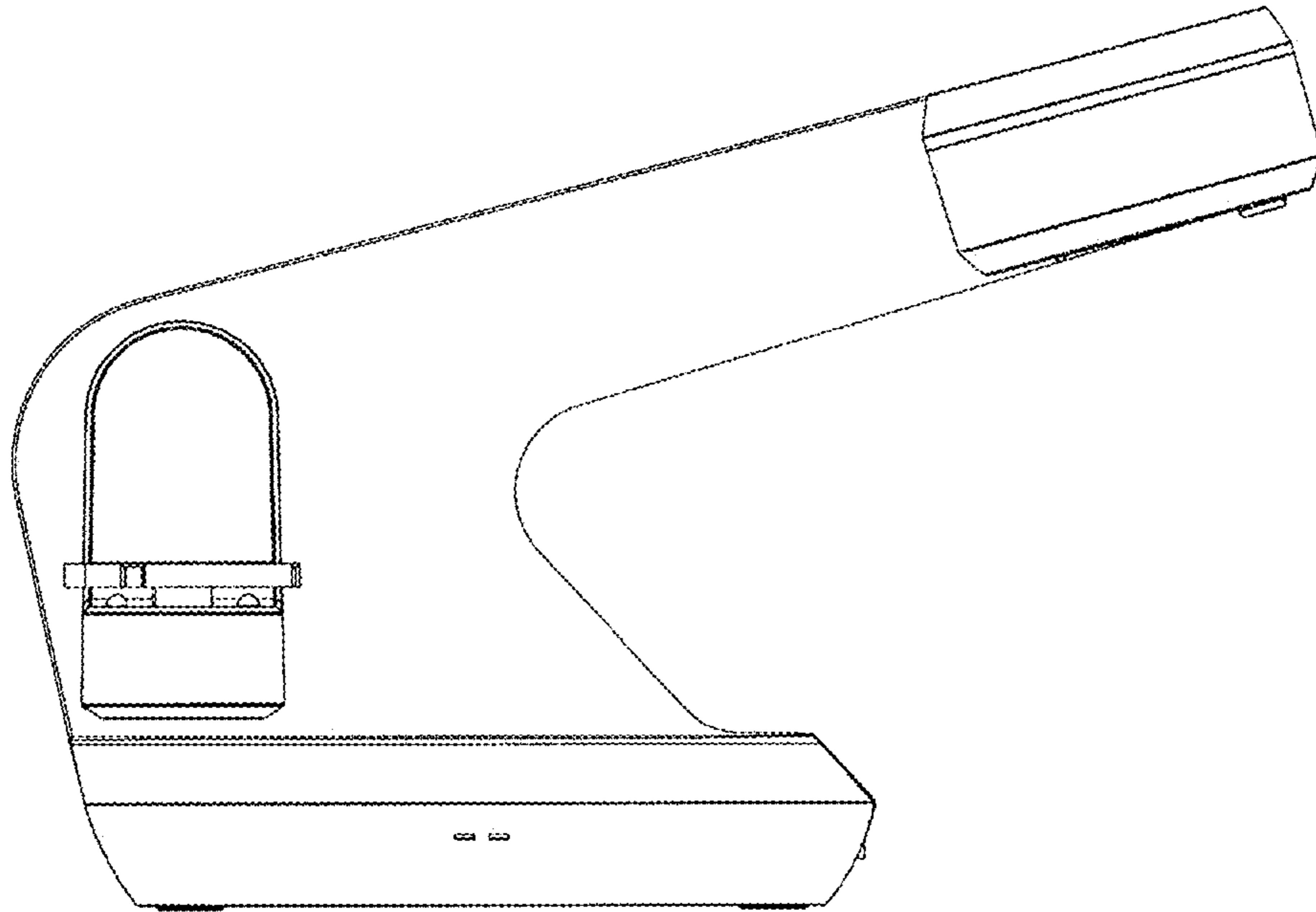


Figure 2

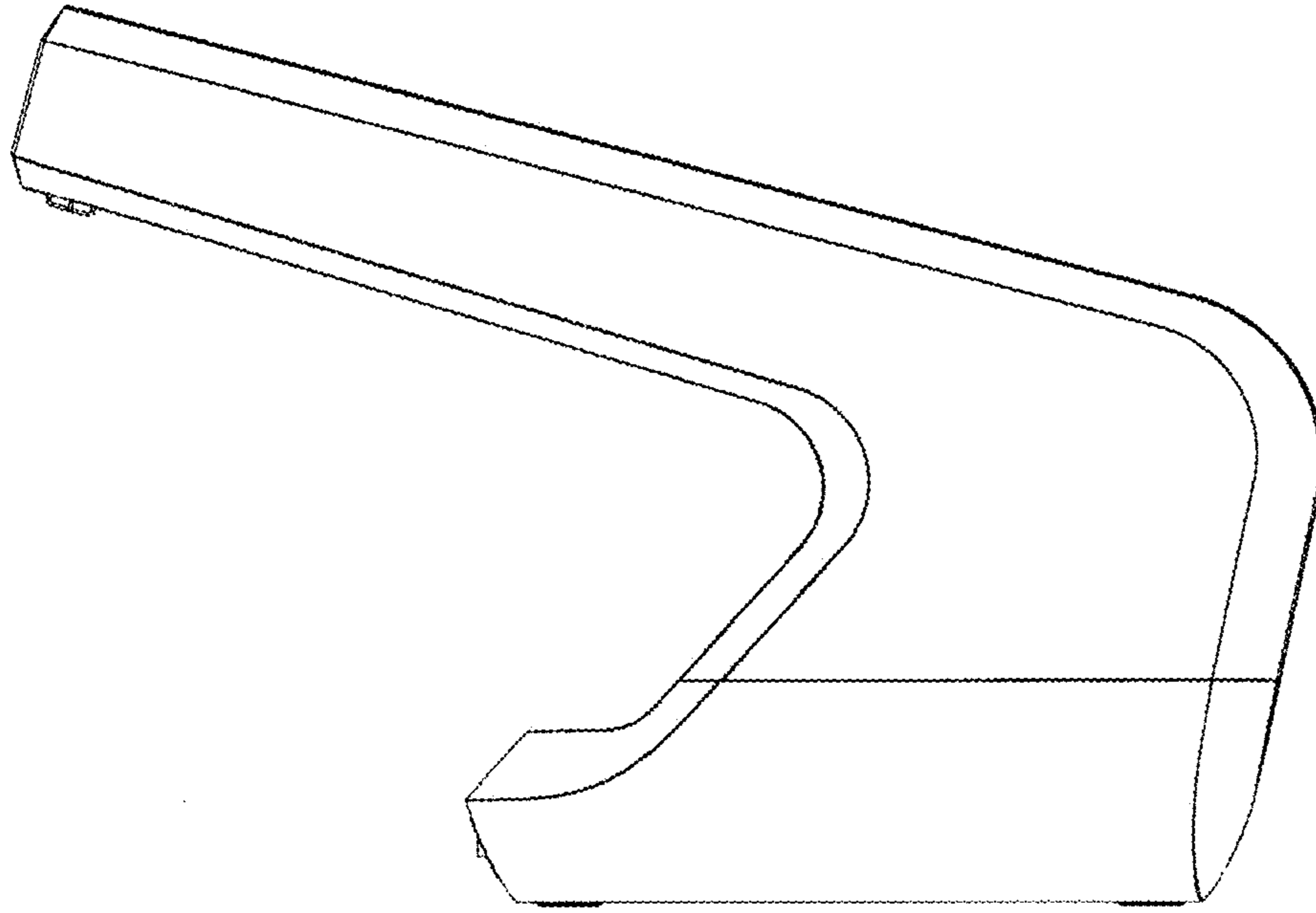


Figure 3



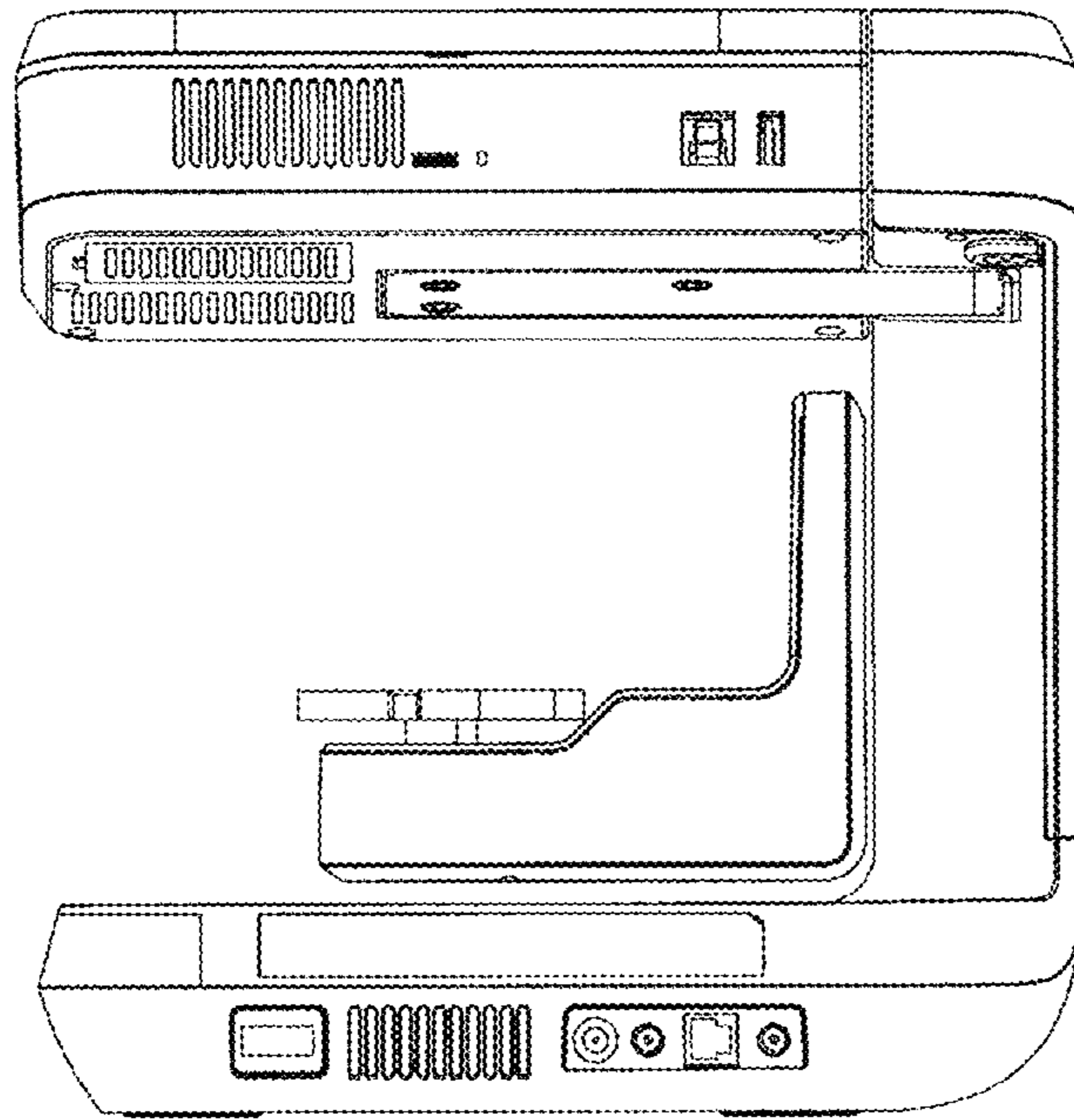


Figure 4

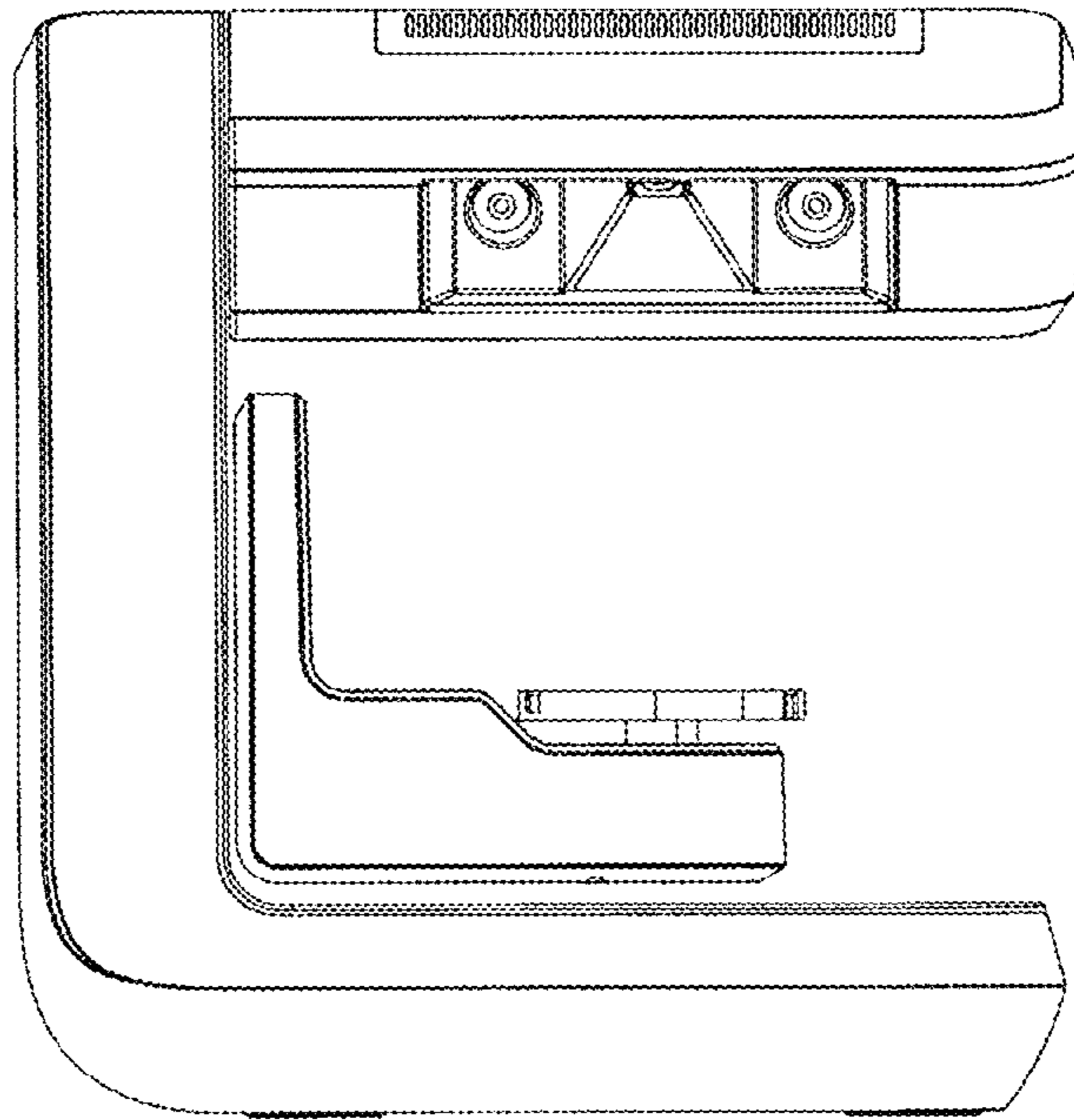


Figure 5

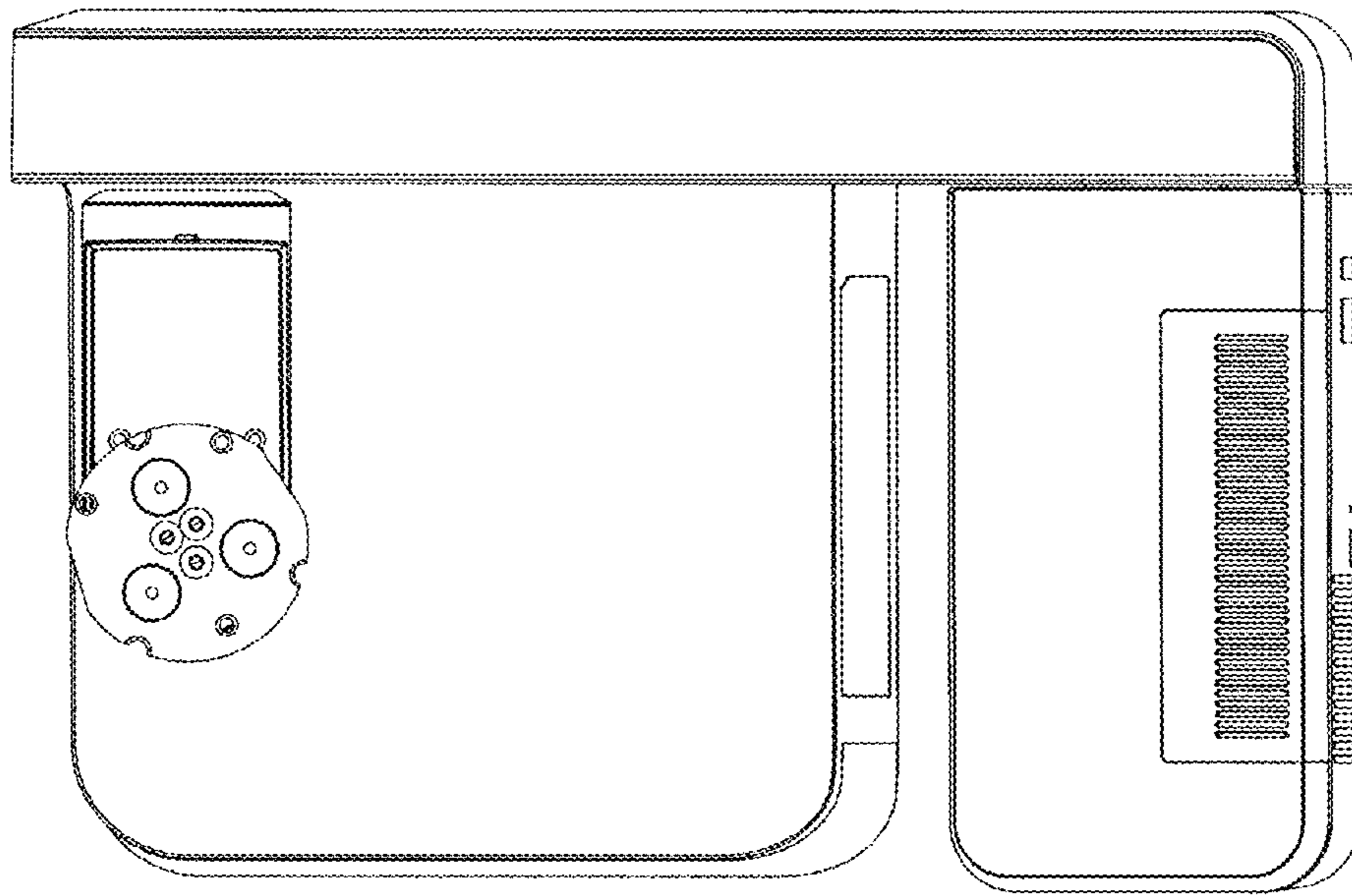


Figure 6



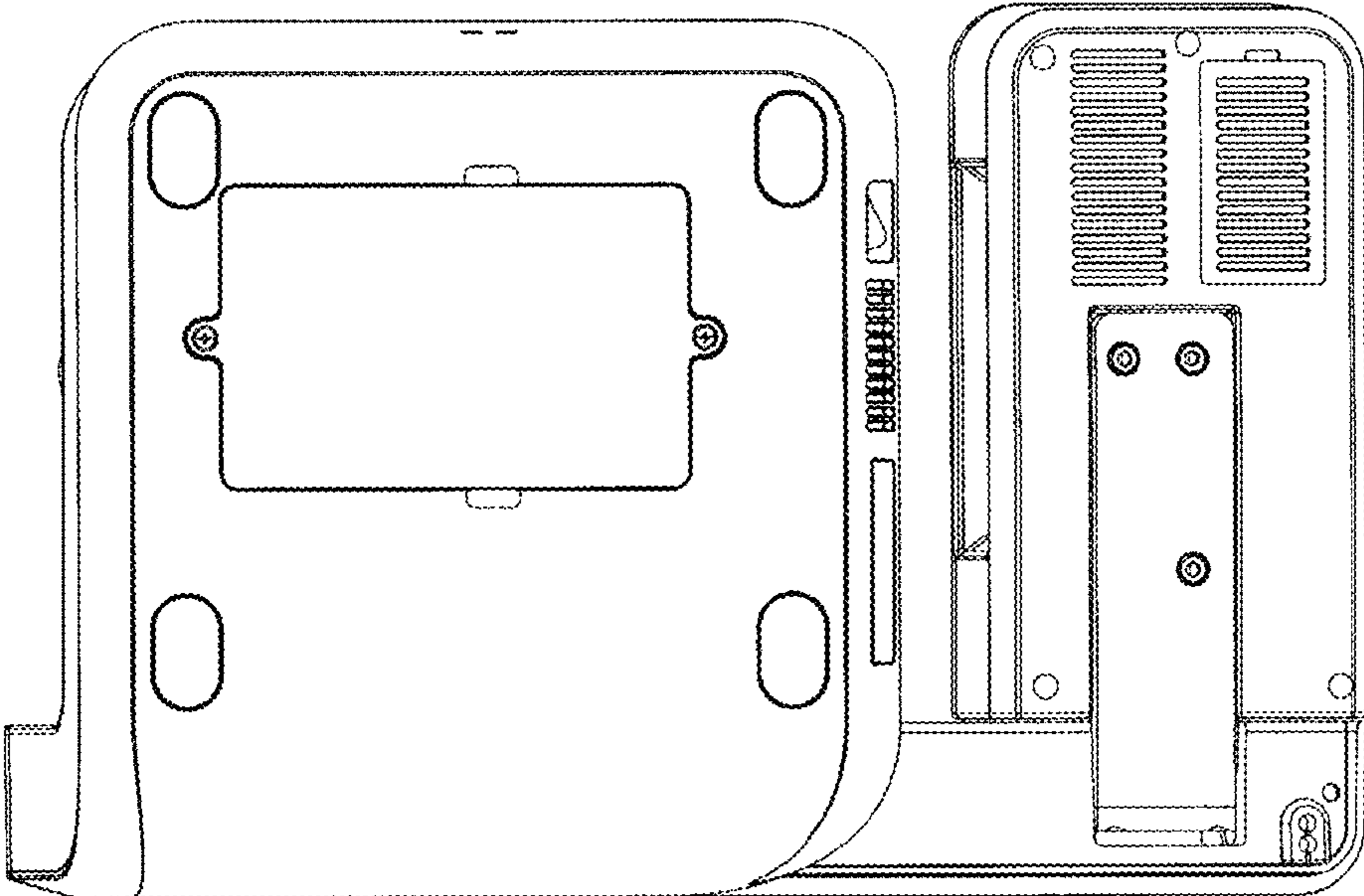


Figure 7