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Malmén

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(54) **MEDICAL XRAY IMAGING APPARATUS**

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

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(52) **U.S. Cl.**
USPC **D24/158**

(58) **Field of Classification Search**
USPC D24/158, 231; 378/127; 379/39, 98.5,
379/198, 193
CPC H05G 1/06; A61B 6/4429; A61B 6/4405;
A61B 6/00; A61B 6/032; A61B 6/14

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,887,287 A * 12/1989 Cobben A61B 6/4405
378/198
- 4,984,261 A * 1/1991 Maldonado H05G 1/06
378/127
- 4,993,057 A * 2/1991 Runnells A61B 6/4429
378/193
- D323,892 S * 2/1992 Spoljaric D24/158
- D417,503 S * 12/1999 Spoljaric D24/158
- D477,407 S * 7/2003 Malmen D24/158
- D502,543 S * 3/2005 Phleps D24/158
- D558,877 S * 1/2008 Ogiwara D24/158
- D617,906 S * 6/2010 Nakahara D24/158

- D624,186 S * 9/2010 Youn D24/158
- D639,947 S * 6/2011 Choi D24/158
- D671,217 S * 11/2012 Moon D24/158
- D704,339 S * 5/2014 Mattiuzzo D24/158
- D708,336 S * 7/2014 Mattiuzzo D24/158
- D710,013 S * 7/2014 Li D24/158
- D714,941 S * 10/2014 Kim D24/158
- D715,441 S * 10/2014 Li D24/158
- D715,940 S * 10/2014 Li D24/158
- D715,941 S * 10/2014 Li D24/158
- 8,861,679 B2 * 10/2014 Suuronen A61B 6/00
378/98.5
- D724,738 S * 3/2015 Dorris D24/158
- D728,794 S * 5/2015 Kim D24/158
- 9,060,716 B2 * 6/2015 Bianconi A61B 6/032
- D752,225 S * 3/2016 Sul D24/158
- D767,139 S * 9/2016 Liu D24/158
- D767,140 S * 9/2016 Yao D24/158
- D779,069 S * 2/2017 Mattiuzzo D24/158
- D785,183 S * 4/2017 Ogura D24/158
- D799,045 S * 10/2017 Mattiuzzo D24/158
- D800,309 S * 10/2017 Mattiuzzo D24/158

(Continued)

Primary Examiner — Rhea Shields

(57) **CLAIM**

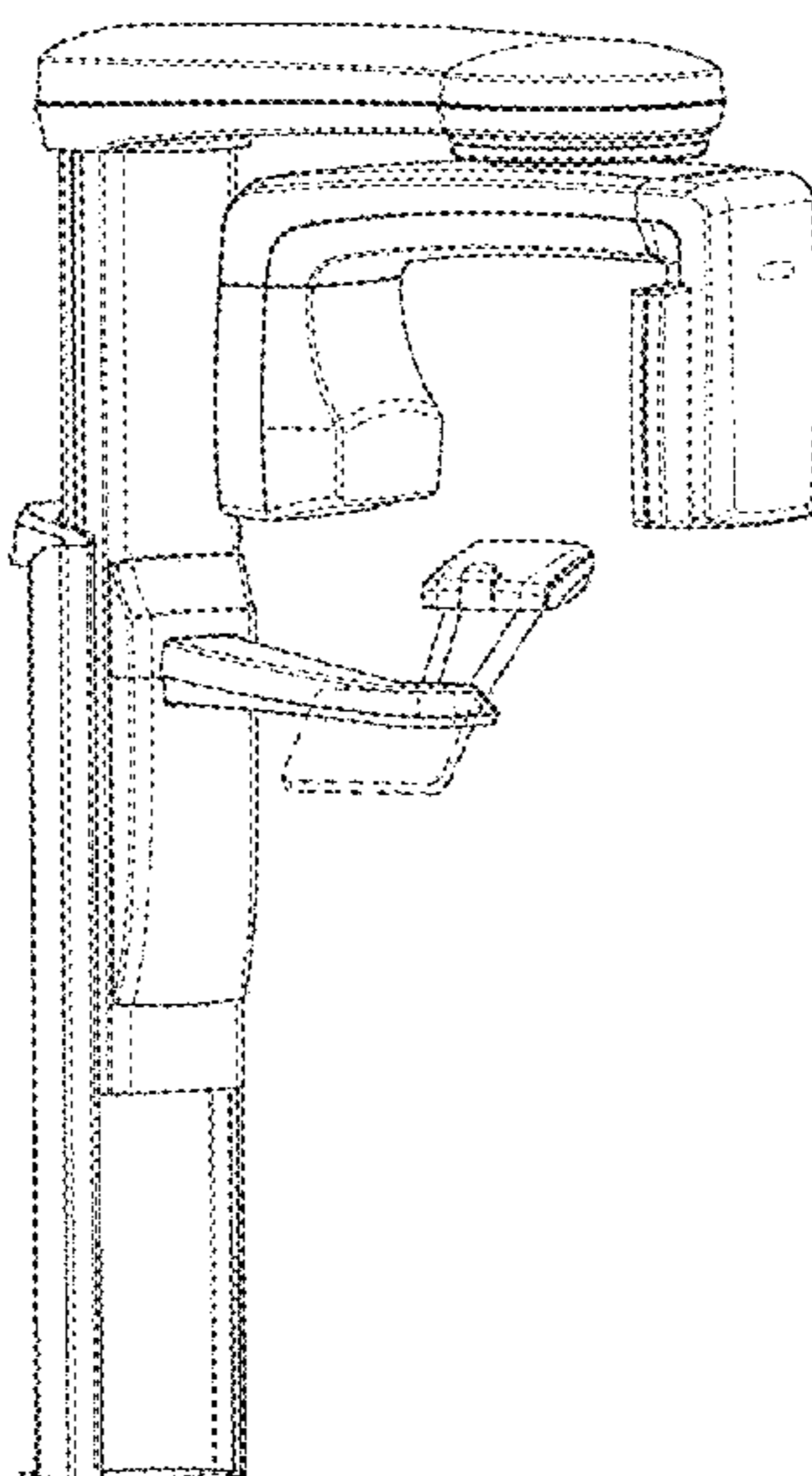
The ornamental design for a medical X-ray imaging apparatus, as shown and described.

DESCRIPTION

- 1. Medical X-ray imaging apparatus
- 1.1 : Perspective
- 1.2 : Back
- 1.3 : Bottom
- 1.4 : Front
- 1.5 : Left
- 1.6 : Right
- 1.7 : Top

In the reproductions, the broken lines are for the purpose of illustrating environment only and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

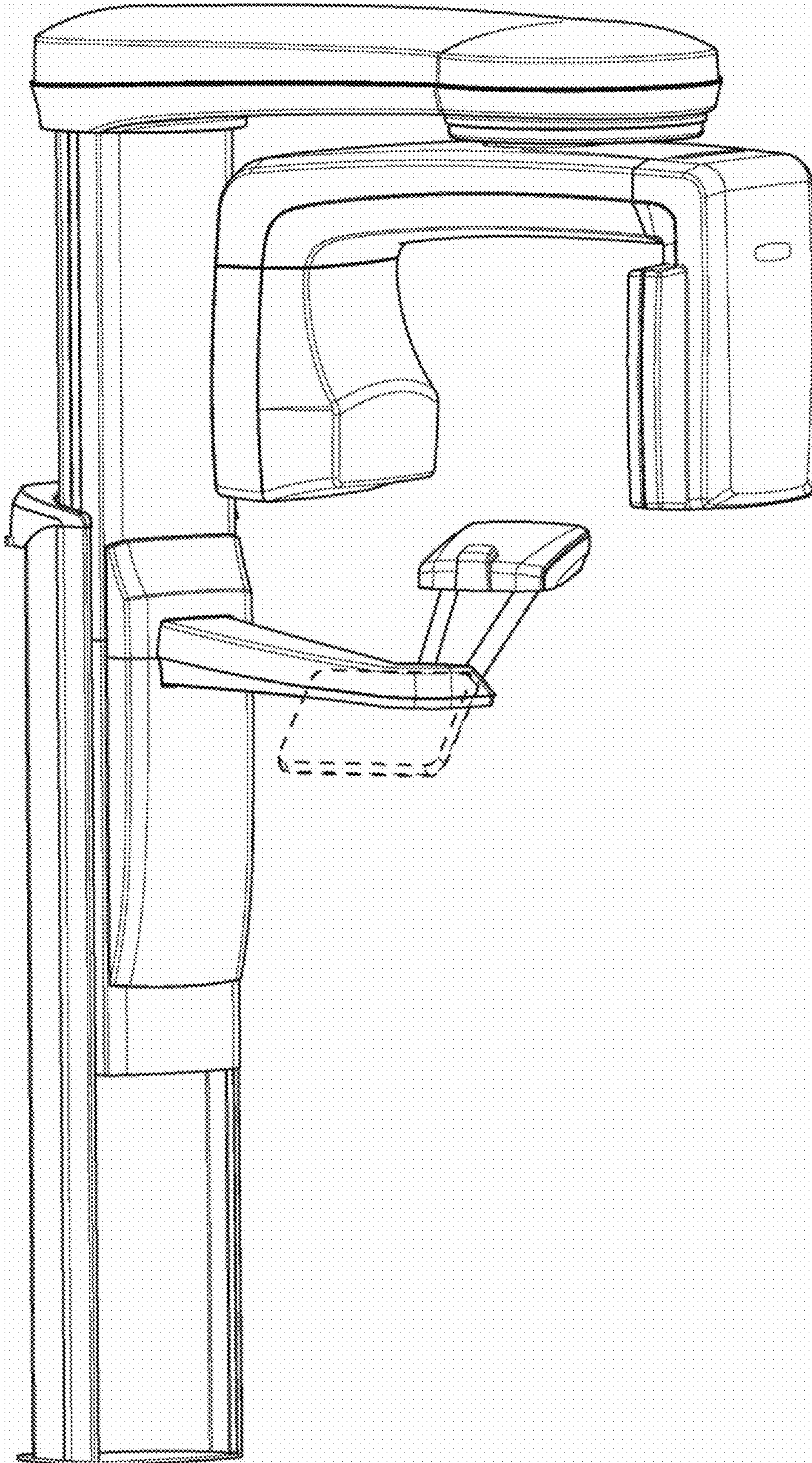
References Cited

U.S. PATENT DOCUMENTS

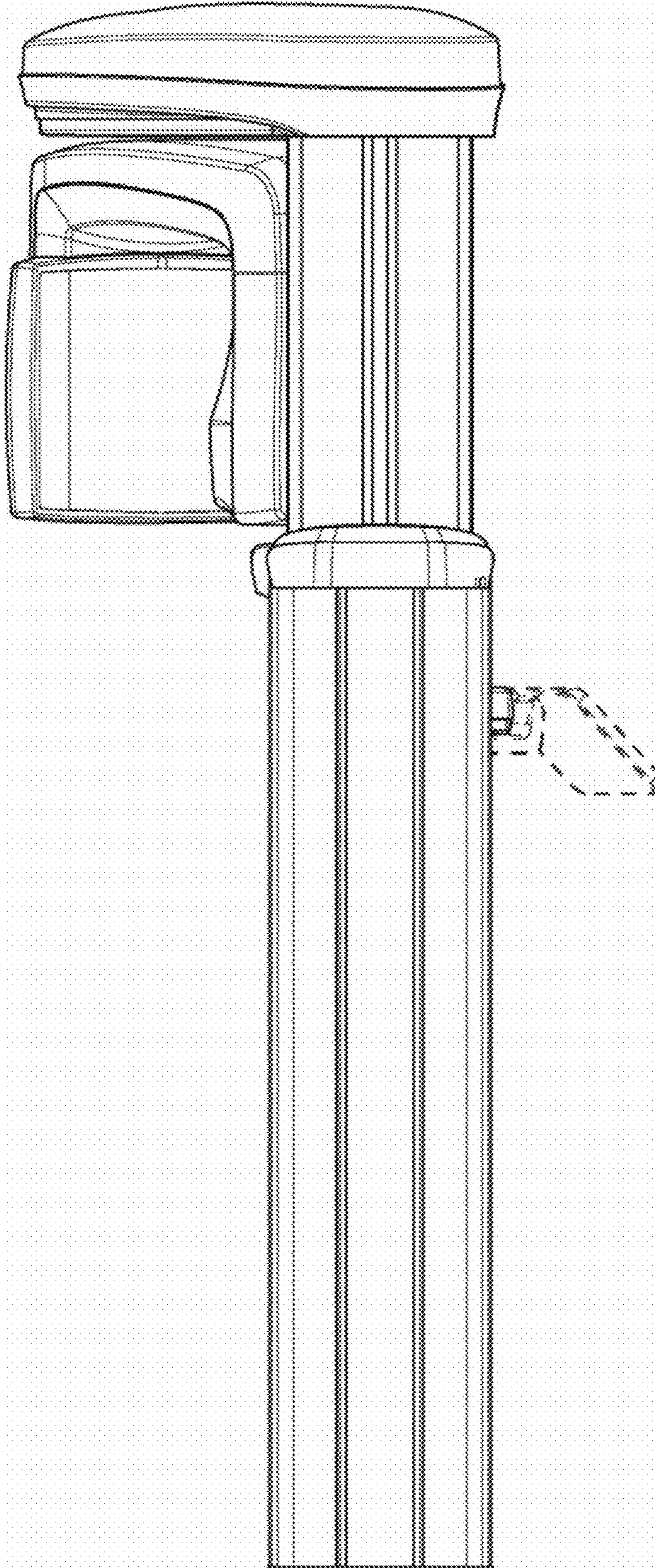
2011/0142199 A1* 6/2011 Kantor A61B 6/14
378/39
2011/0305320 A1* 12/2011 Suuronen A61B 6/00
378/98.5
2013/0089177 A1* 4/2013 Baldini A61B 6/14
378/39

* cited by examiner

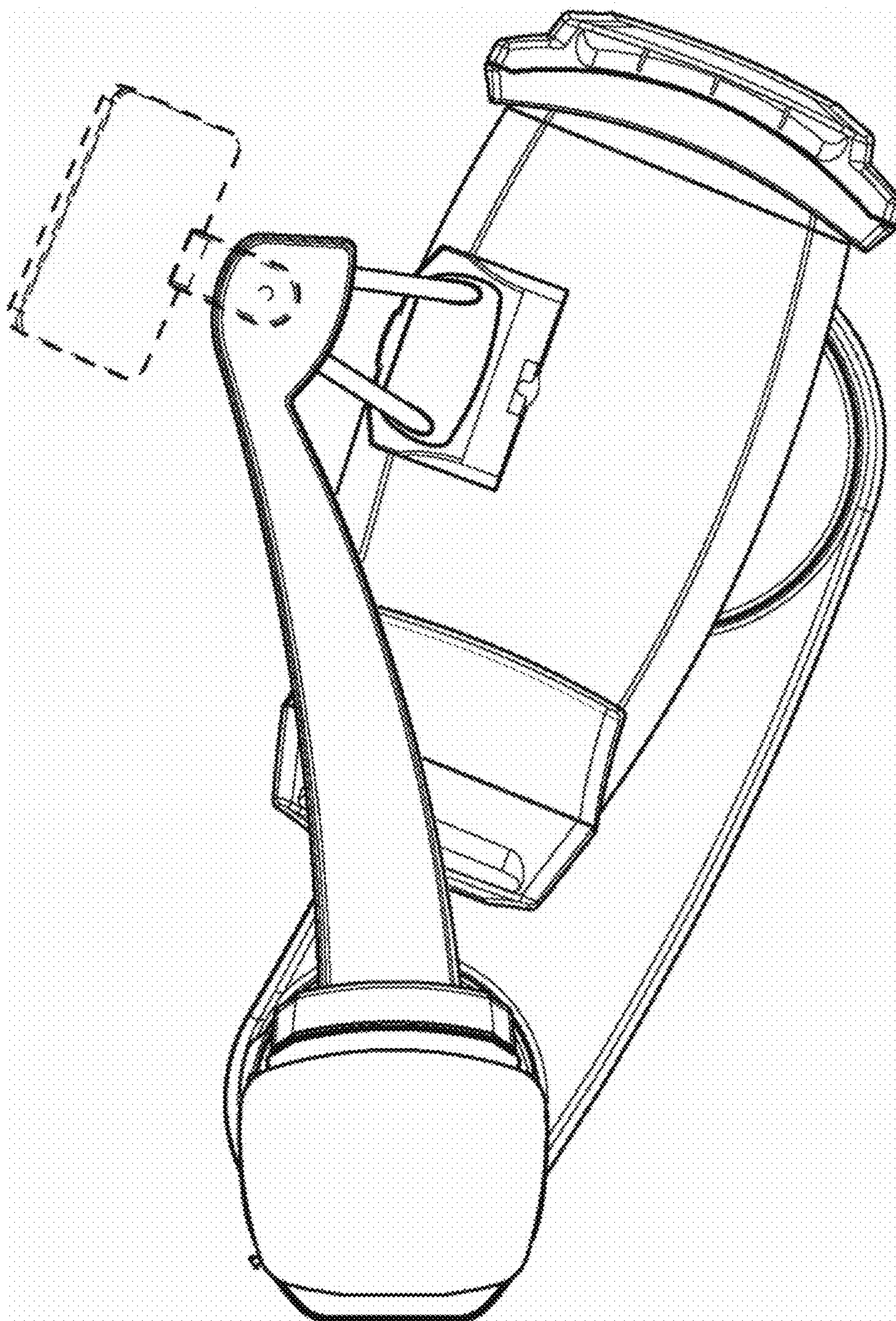
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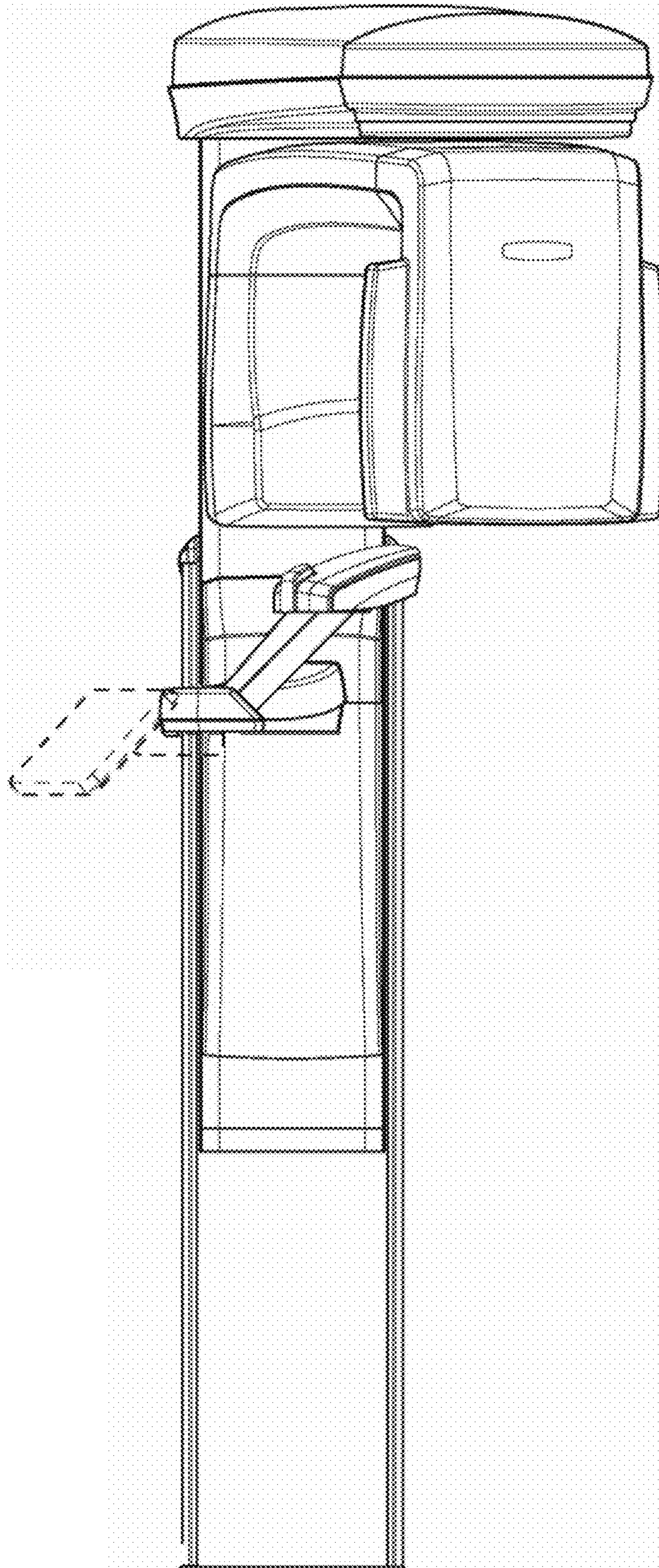
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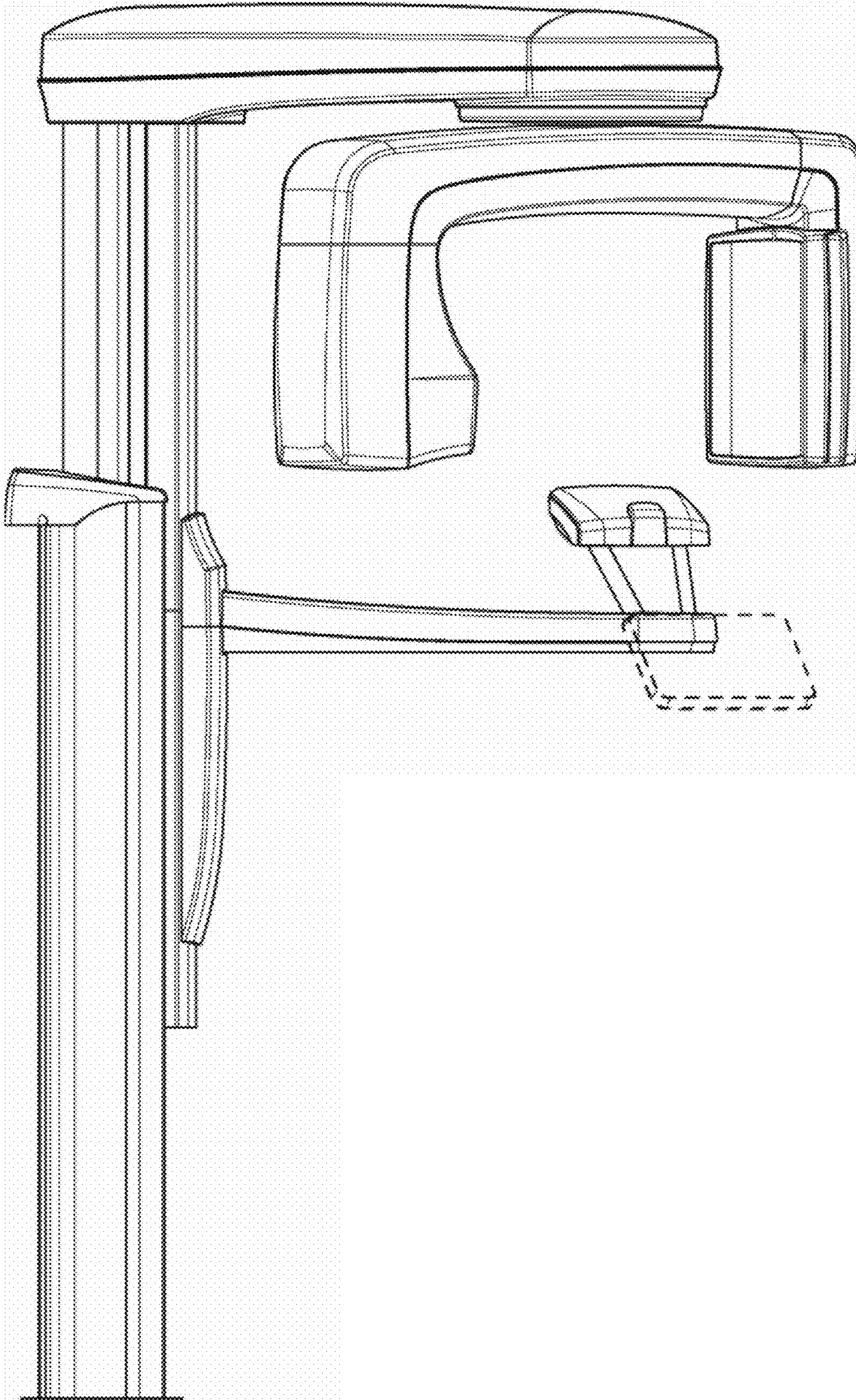
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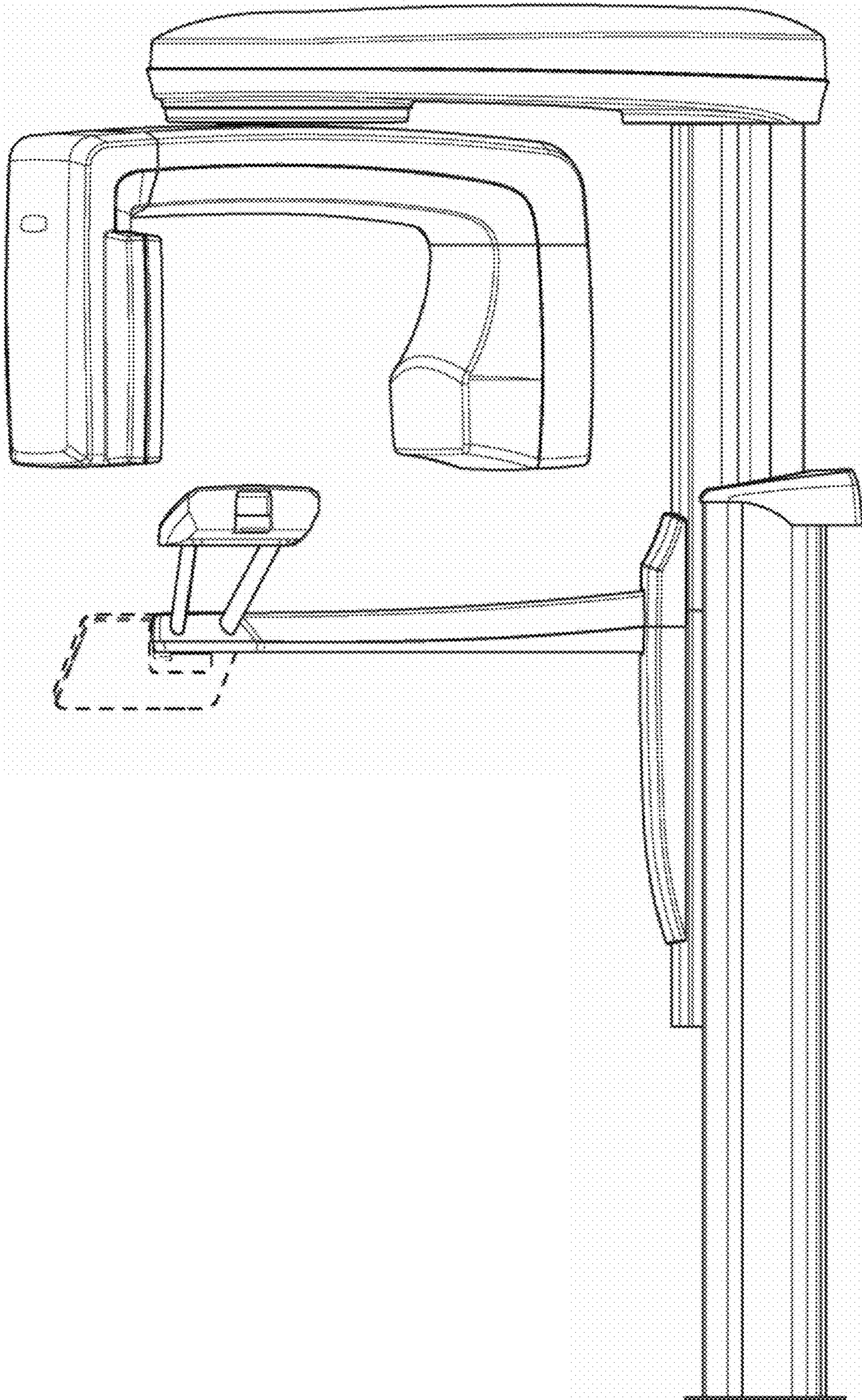
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1.5



1.6



1.7

