US00D903905S

(12) United States Design Patent

Leng

(10) Patent No.: US D903,905 S
(45) Date of Patent: ** Dec. 1, 2020

(54) **FOLDING LADDER**

(71) Applicant: **NEW-TEC INTEGRATION (XIAMEN) CO., LTD.**, Xiamen (CN)

(72) Inventor: **Luhao Leng**, Xiamen (CN)

(73) Assignee: **New-Tec Integration (Xiamen) Co., Ltd.**, Xiamen (CN)

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

(21) Appl. No.: **29/674,826**

(22) Filed: **Dec. 26, 2018**

(30) **Foreign Application Priority Data**

Jun. 25, 2018 (CN) 2018 3 0328923

(51) **LOC (12) Cl.** **25-04**

(52) **U.S. Cl.**
USPC **D25/65**

(58) **Field of Classification Search**
USPC D25/62–65, 68, 69; 182/165, 104, 180.1, 182/22, 21, 115, 194, 161, 129
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,762,163 A * 6/1998 Kain E06C 1/393 182/161
D401,353 S * 11/1998 Bell D25/64
(Continued)

Primary Examiner — Gino Colan
(74) *Attorney, Agent, or Firm* — Cooper Legal Group, LLC

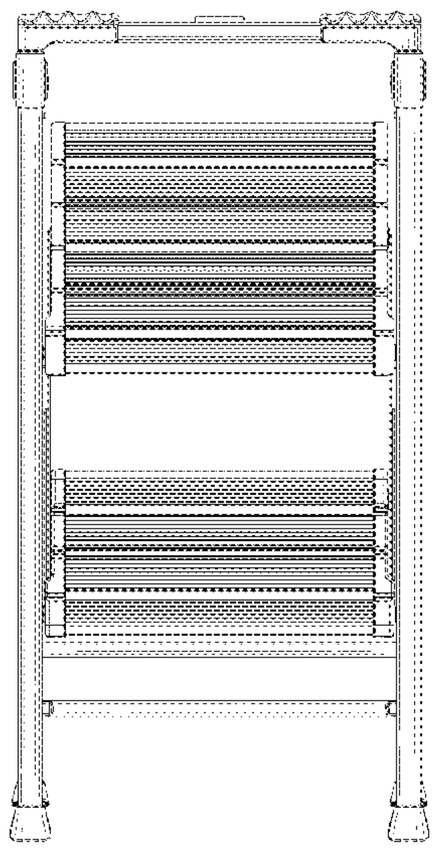
(57) **CLAIM**

The ornamental design for a folding ladder, as shown.

DESCRIPTION

FIG. **1**. is a front view of a folding ladder showing my new design, showing a folding position;
FIG. **2**. is a rear view thereof;
FIG. **3**. is a right side view thereof;
FIG. **4**. is a left side view thereof;
FIG. **5**. is top plan view thereof;
FIG. **6**. is a bottom plan thereof;
FIG. **7**. is a perspective view thereof;
FIG. **8**. is another perspective view thereof, showing the top portion extended from a folding position;
FIG. **9**. is a front view showing my new design, showing a unfolding position;
FIG. **10**. is a rear view thereof;
FIG. **11**. is a left side view thereof;
FIG. **12**. is a right side view thereof;
FIG. **13**. is top plan view thereof;
FIG. **14**. is a bottom plan thereof;
FIG. **15**. is a perspective view thereof;
FIG. **16**. is another perspective view thereof, showing the top portion extended from a unfolding position;
FIG. **17**. is a front view of a second embodiment showing my new design, showing a folding position;
FIG. **18**. is a rear view thereof;
FIG. **19**. is a right side view thereof;
FIG. **20**. is a left side view thereof;
FIG. **21**. is top plan view thereof;
FIG. **22**. is a bottom plan thereof;
FIG. **23**. is a perspective view thereof;
FIG. **24**. is another perspective view thereof, showing the top portion extended from a folding position;
FIG. **25**. is a front view showing my new design, showing a unfolding position;
FIG. **26**. is a rear view thereof;
FIG. **27**. is a left side view thereof;
FIG. **28**. is a right side view thereof;
FIG. **29**. is top plan view thereof;
FIG. **30**. is a bottom plan thereof;
FIG. **31**. is a perspective view thereof; and,
FIG. **32**. is another perspective view thereof, showing the top portion extended from a unfolding position.

1 Claim, 32 Drawing Sheets



(58) **Field of Classification Search**
CPC ... E06C 1/393; E06C 1/18; E06C 1/39; E06C 1/383; E06C 1/32; E06C 1/3835
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D433,156	S *	10/2000	Gibson	D25/64
D564,674	S *	3/2008	Farber	D25/65
D565,745	S *	4/2008	Meyers	D25/65
D576,291	S *	9/2008	Latimer	D25/65
8,684,139	B2 *	4/2014	Leng	A47C 12/00 182/129
10,221,624	B2 *	3/2019	Leng	E06C 1/20
D872,876	S *	1/2020	Leng	D25/64

* cited by examiner

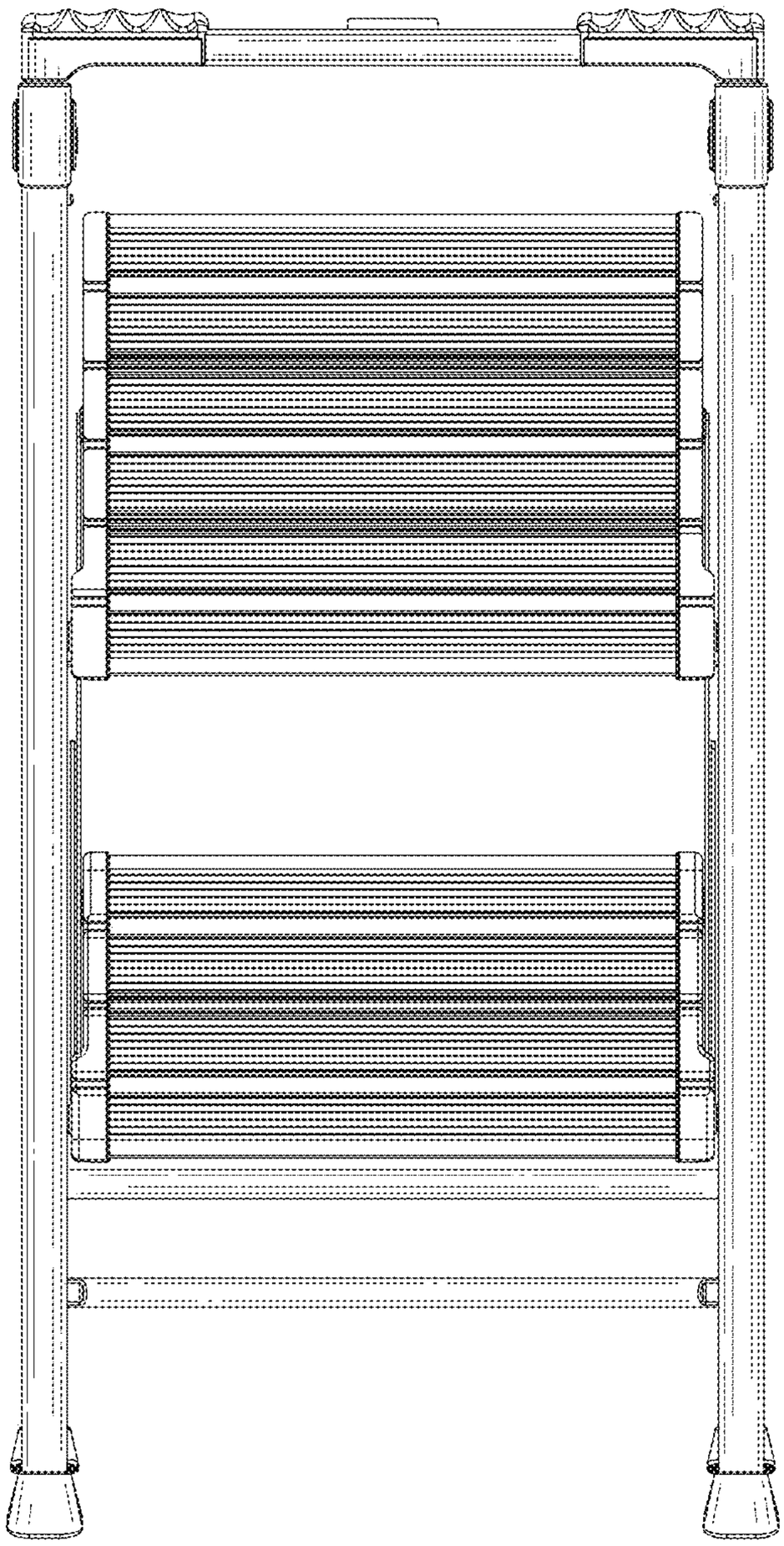


FIG. 1

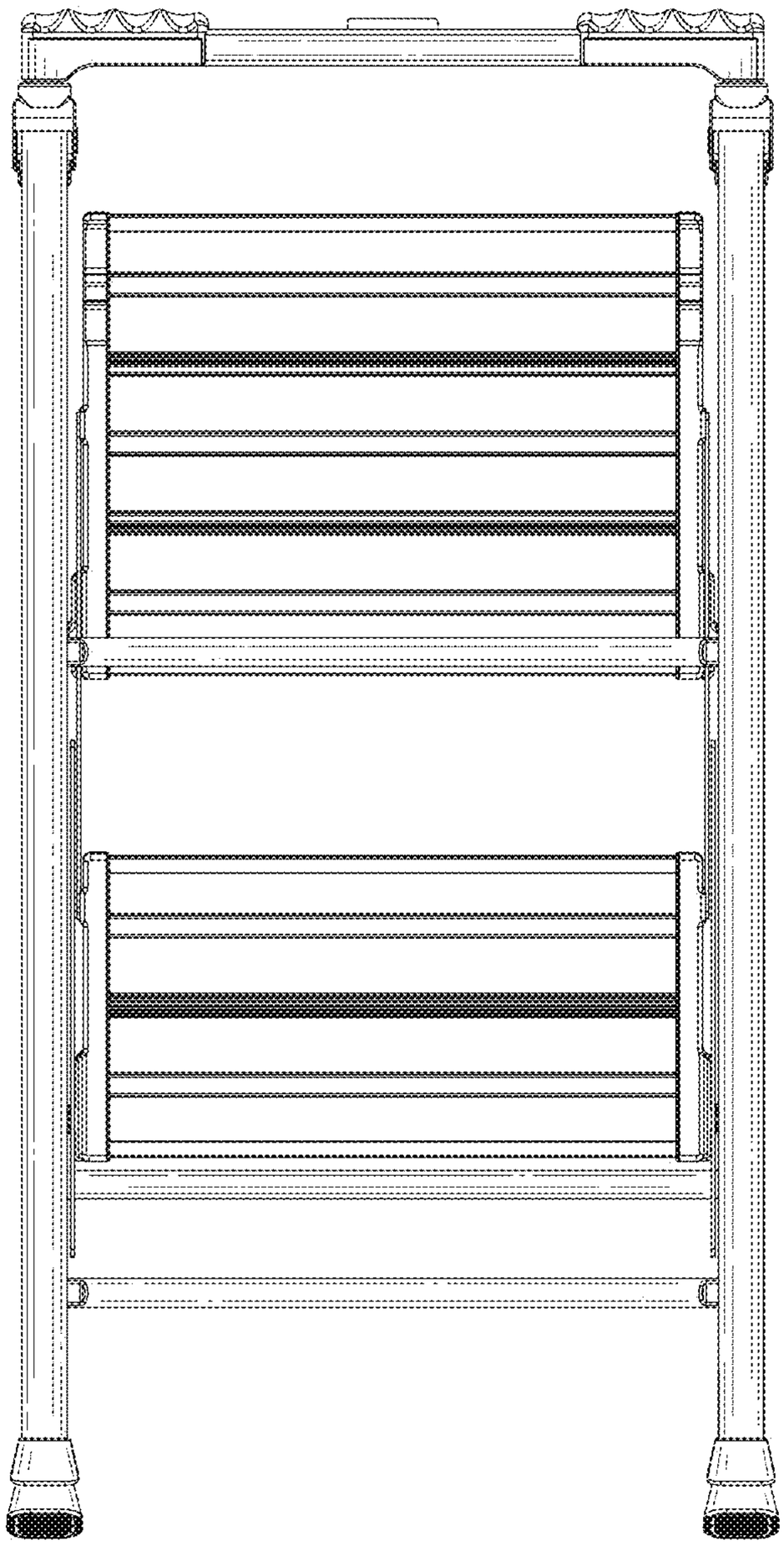


FIG. 2

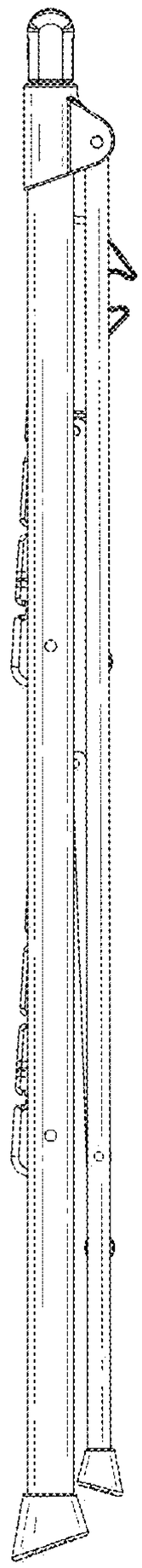


FIG. 3

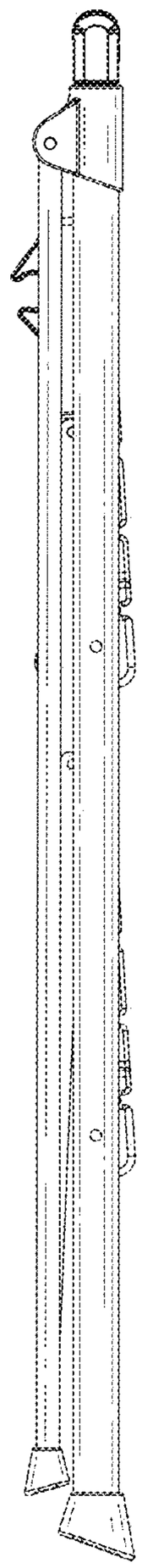


FIG. 4

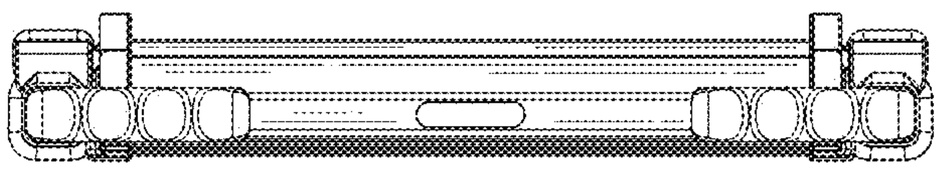


FIG. 5

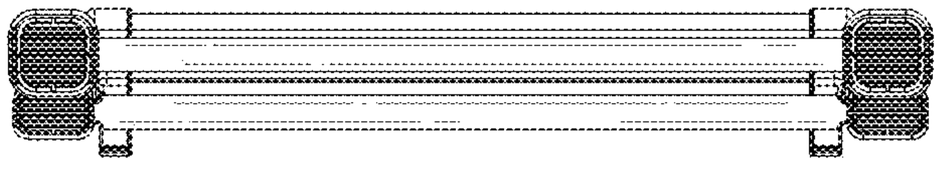


FIG. 6

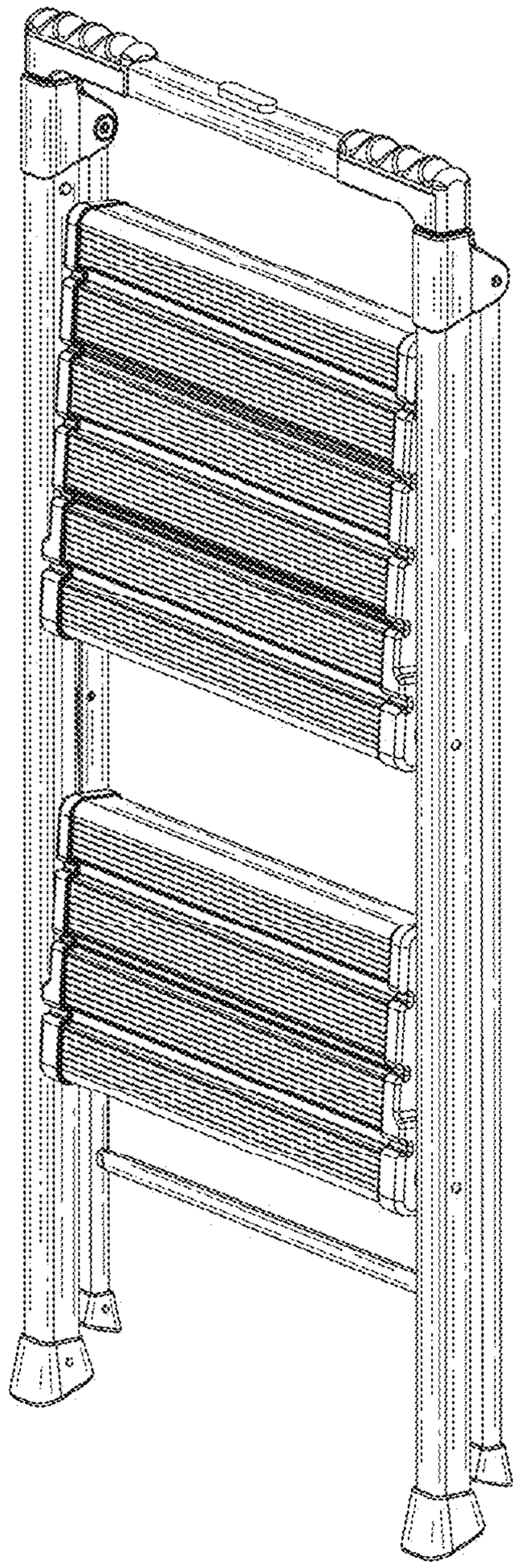


FIG. 7

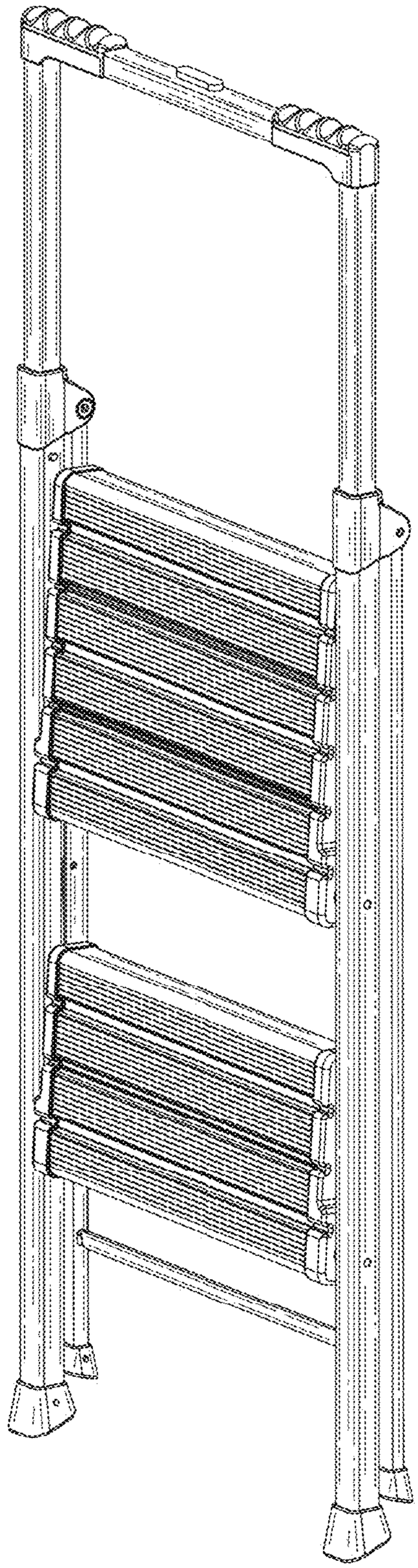


FIG. 8

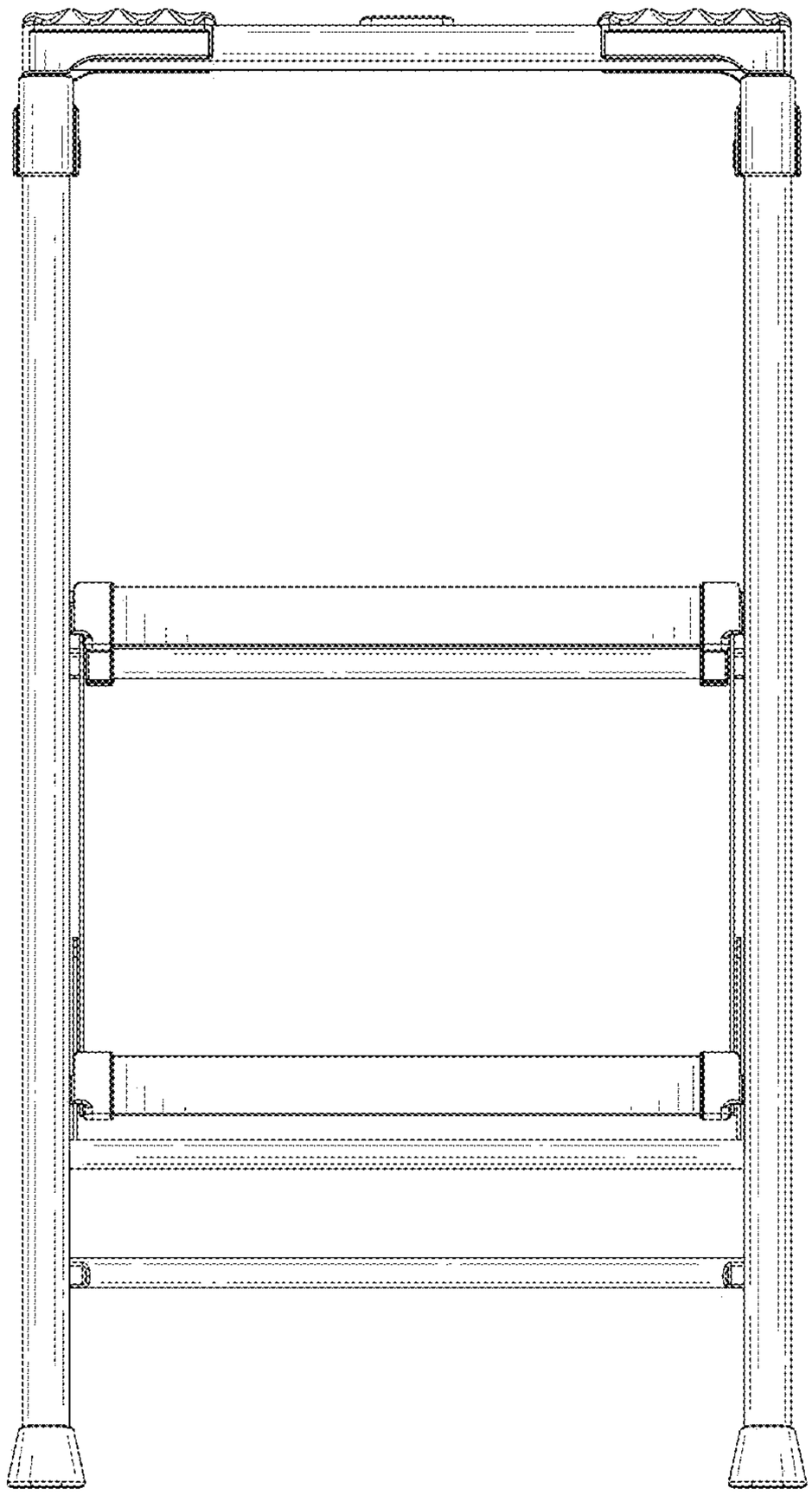


FIG. 9

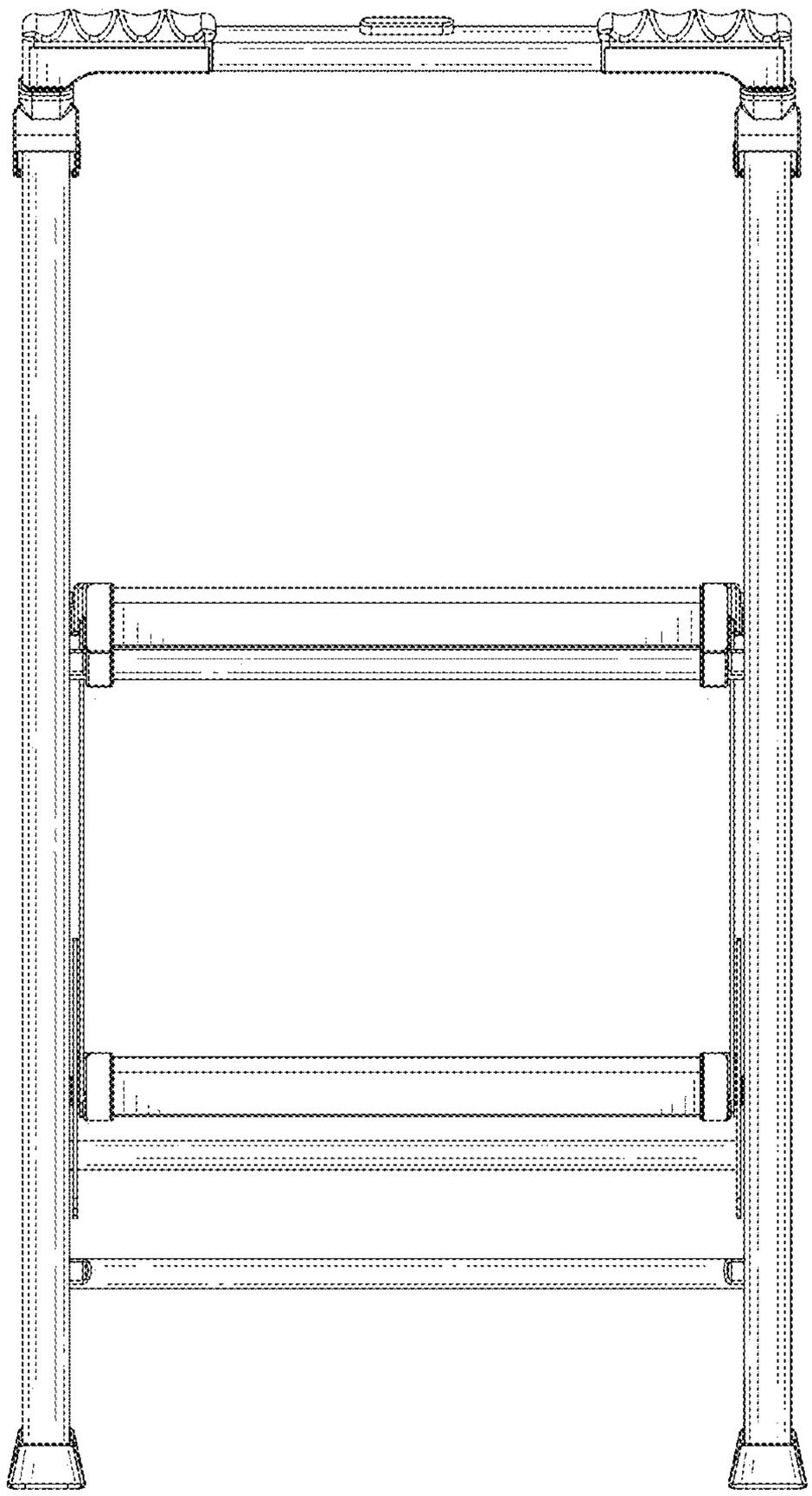


FIG. 10

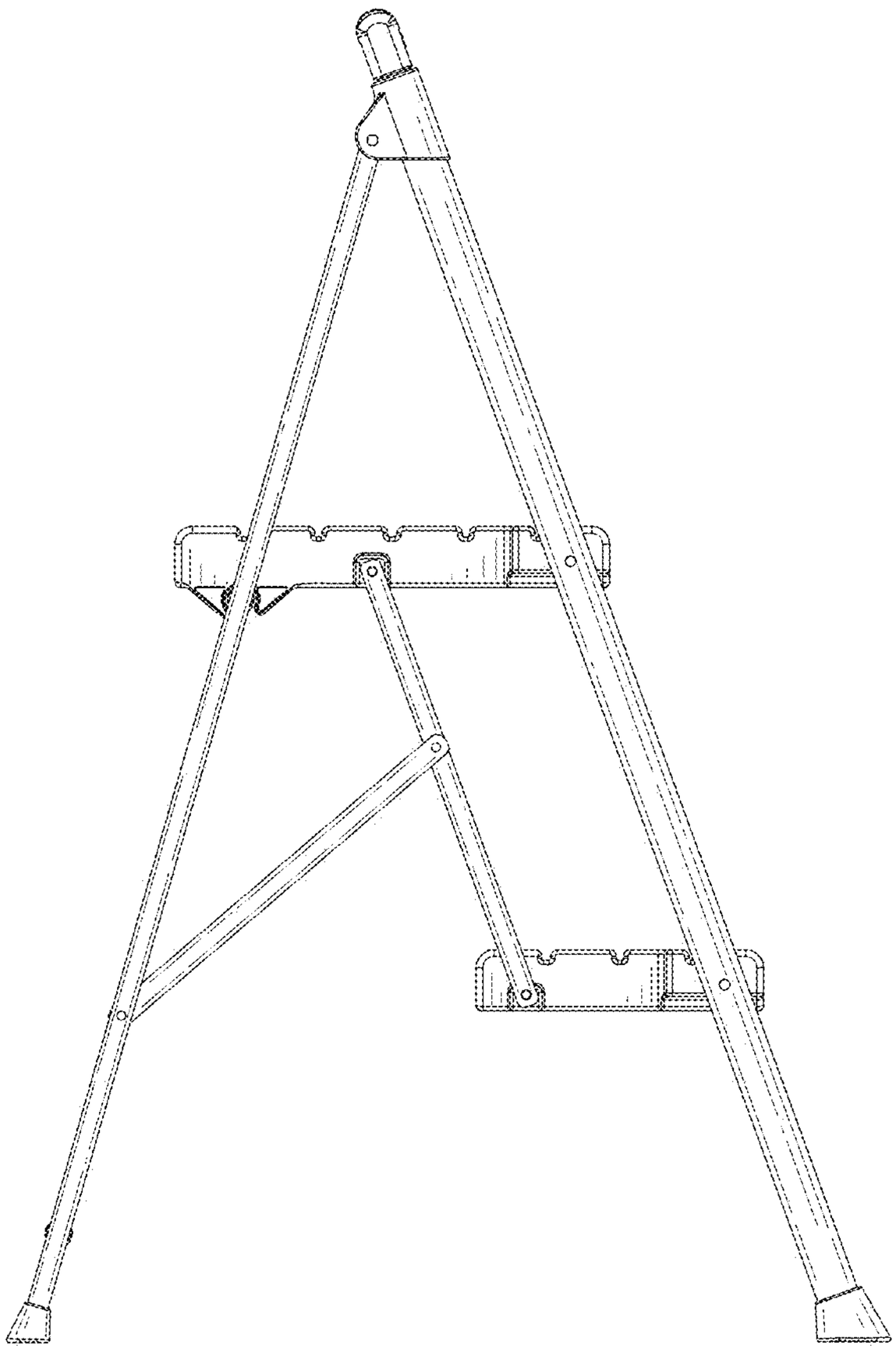


FIG. 11

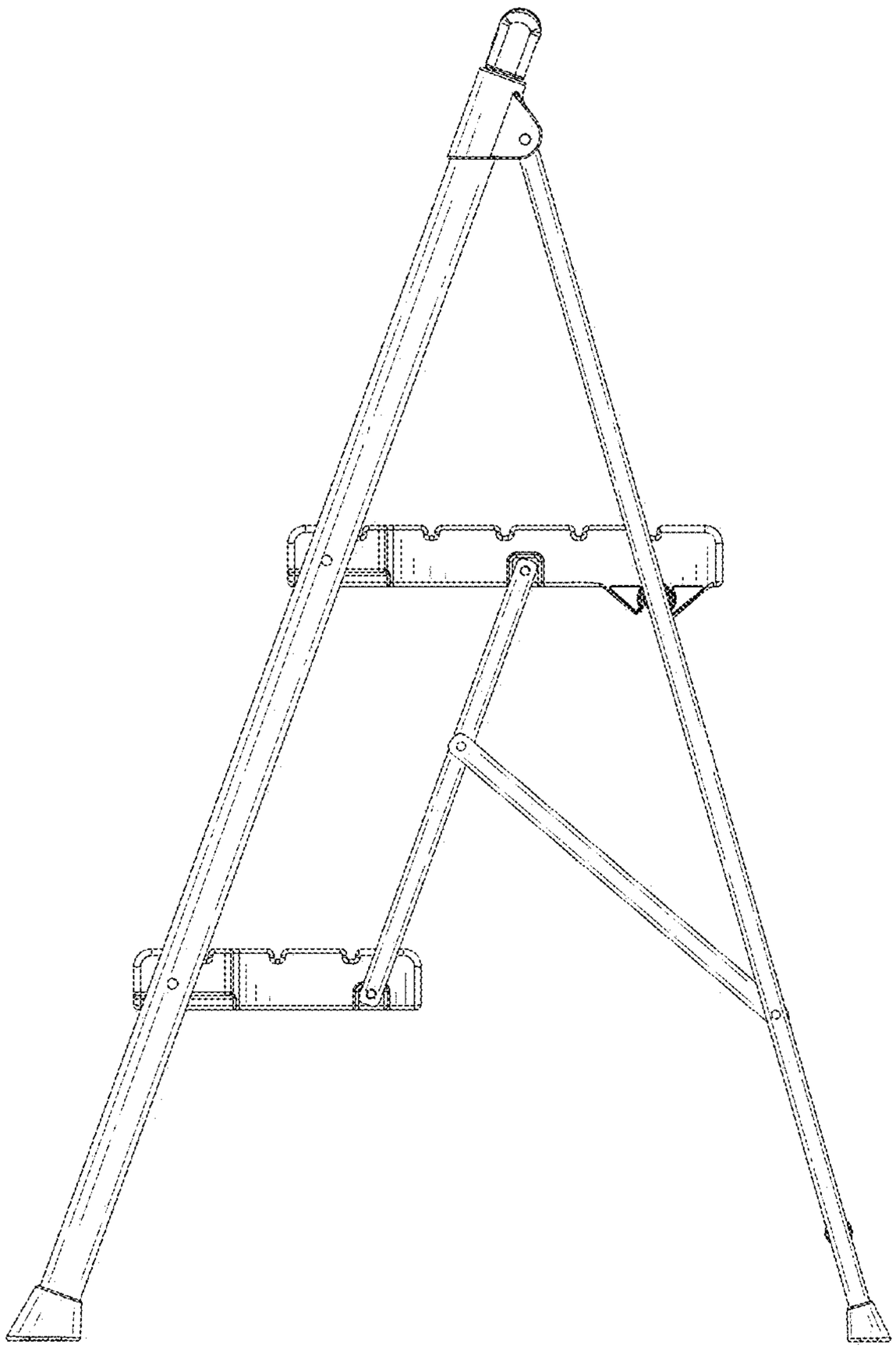


FIG. 12

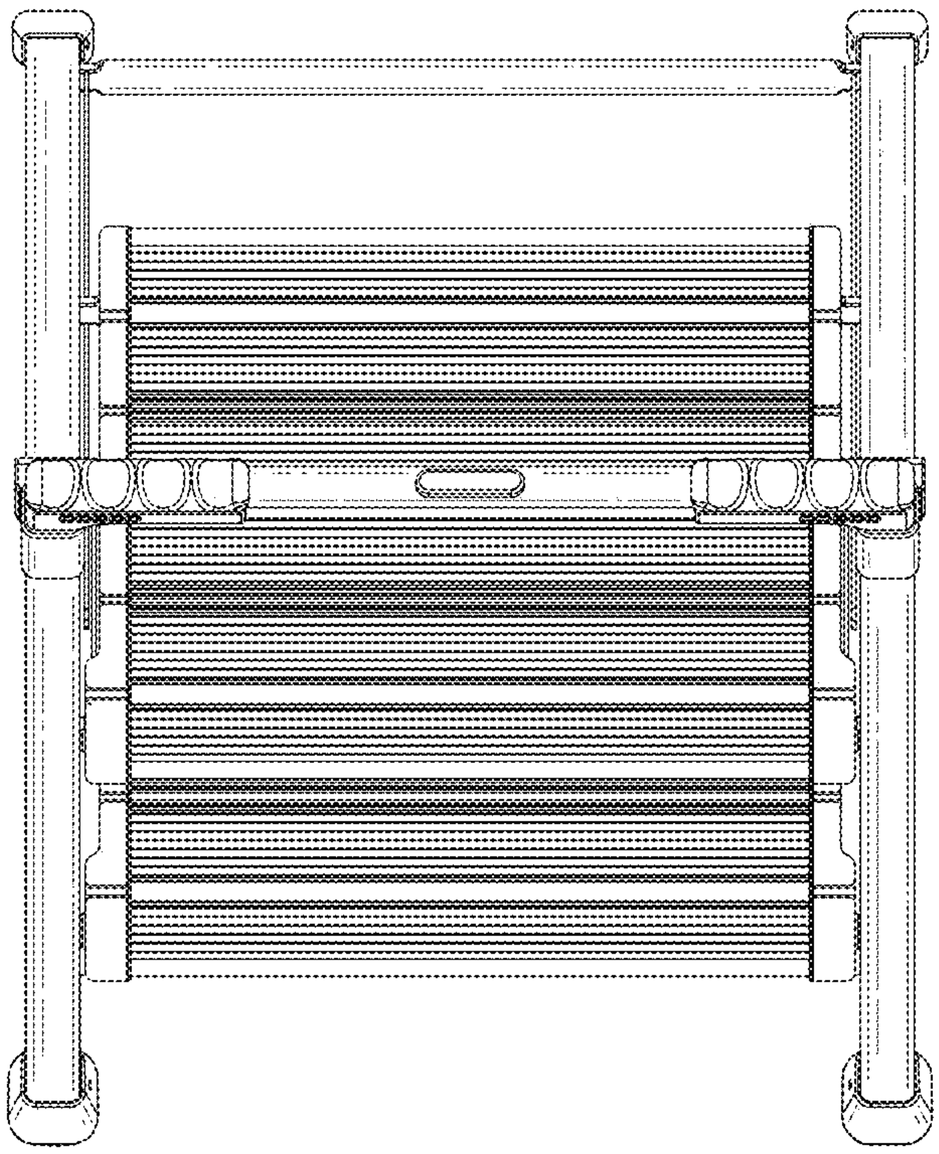


FIG. 13

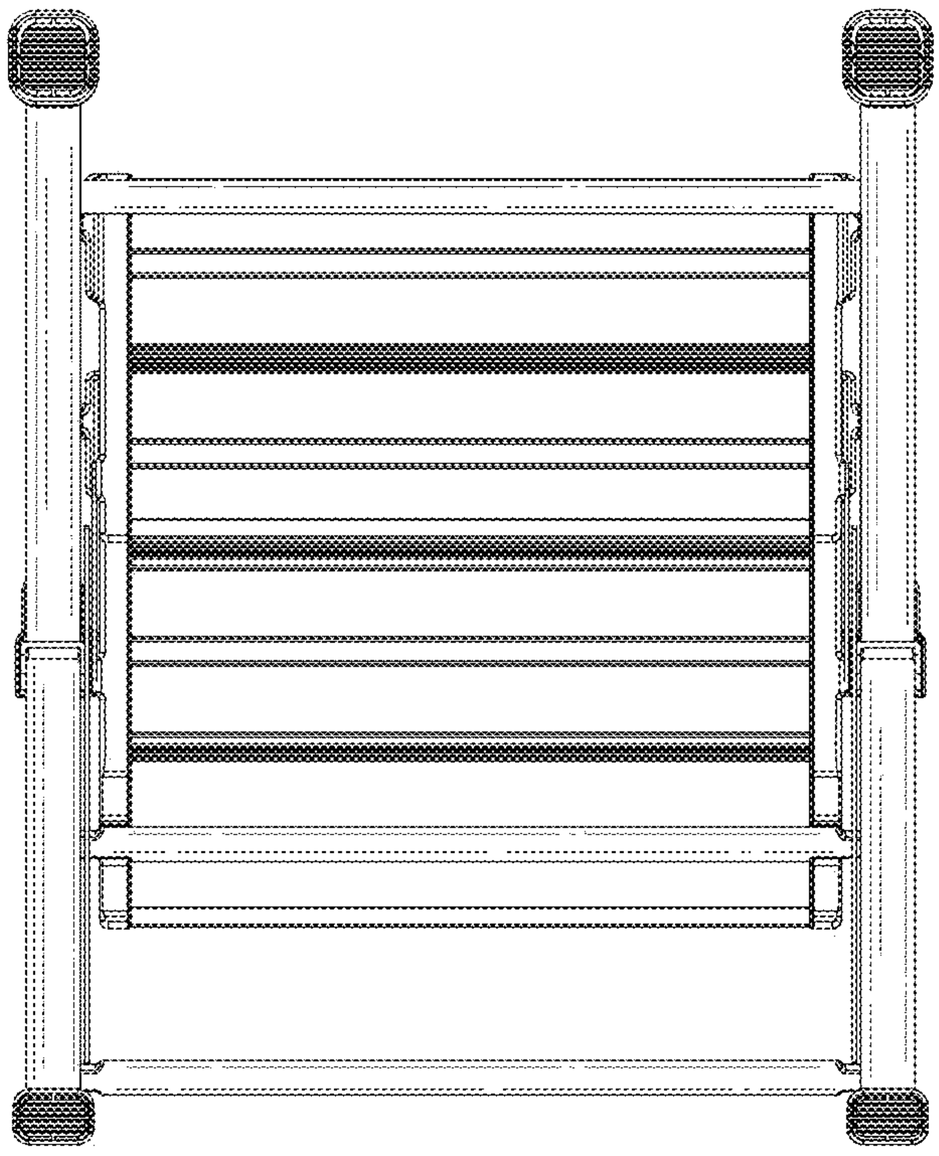


FIG. 14

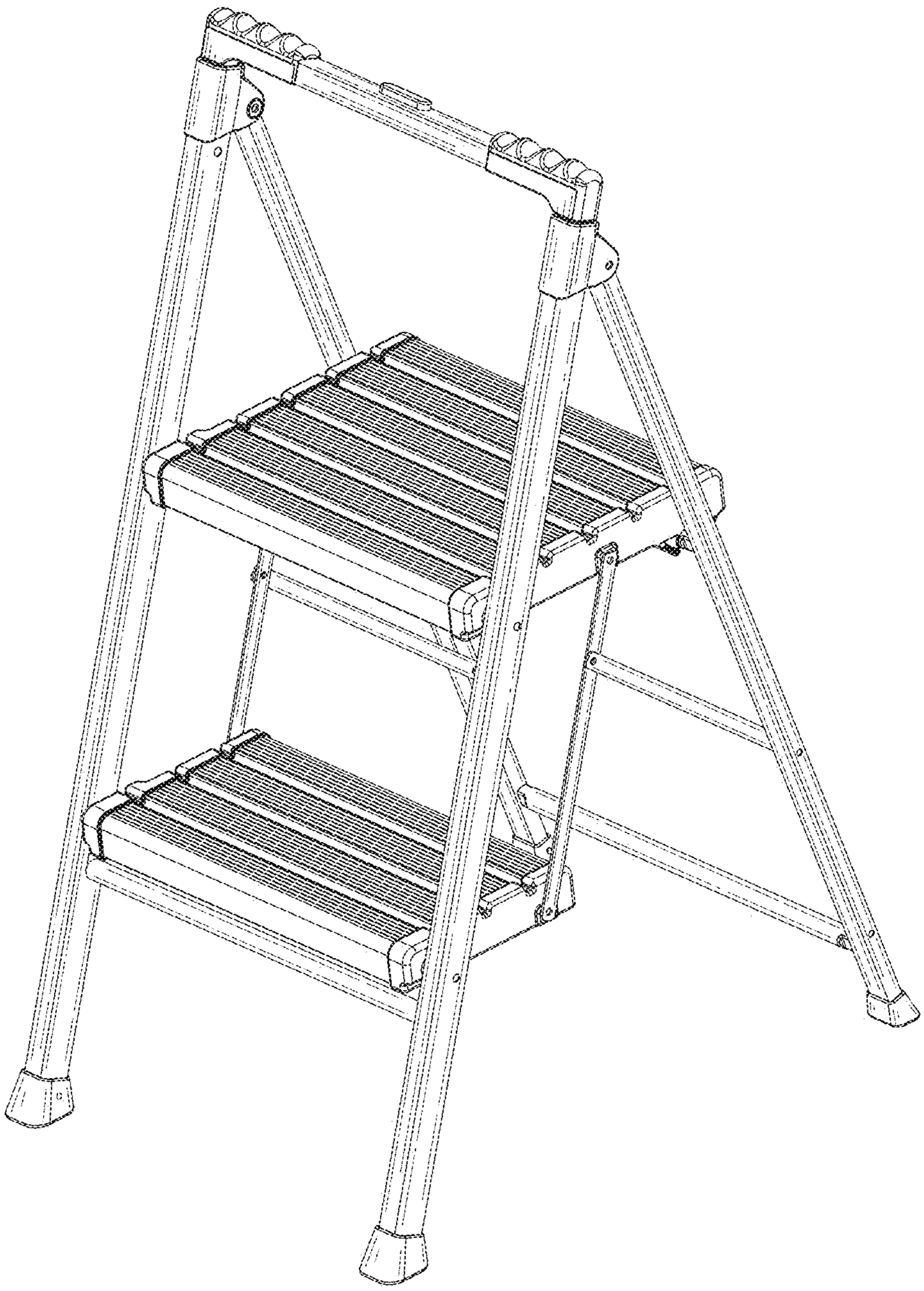


FIG. 15

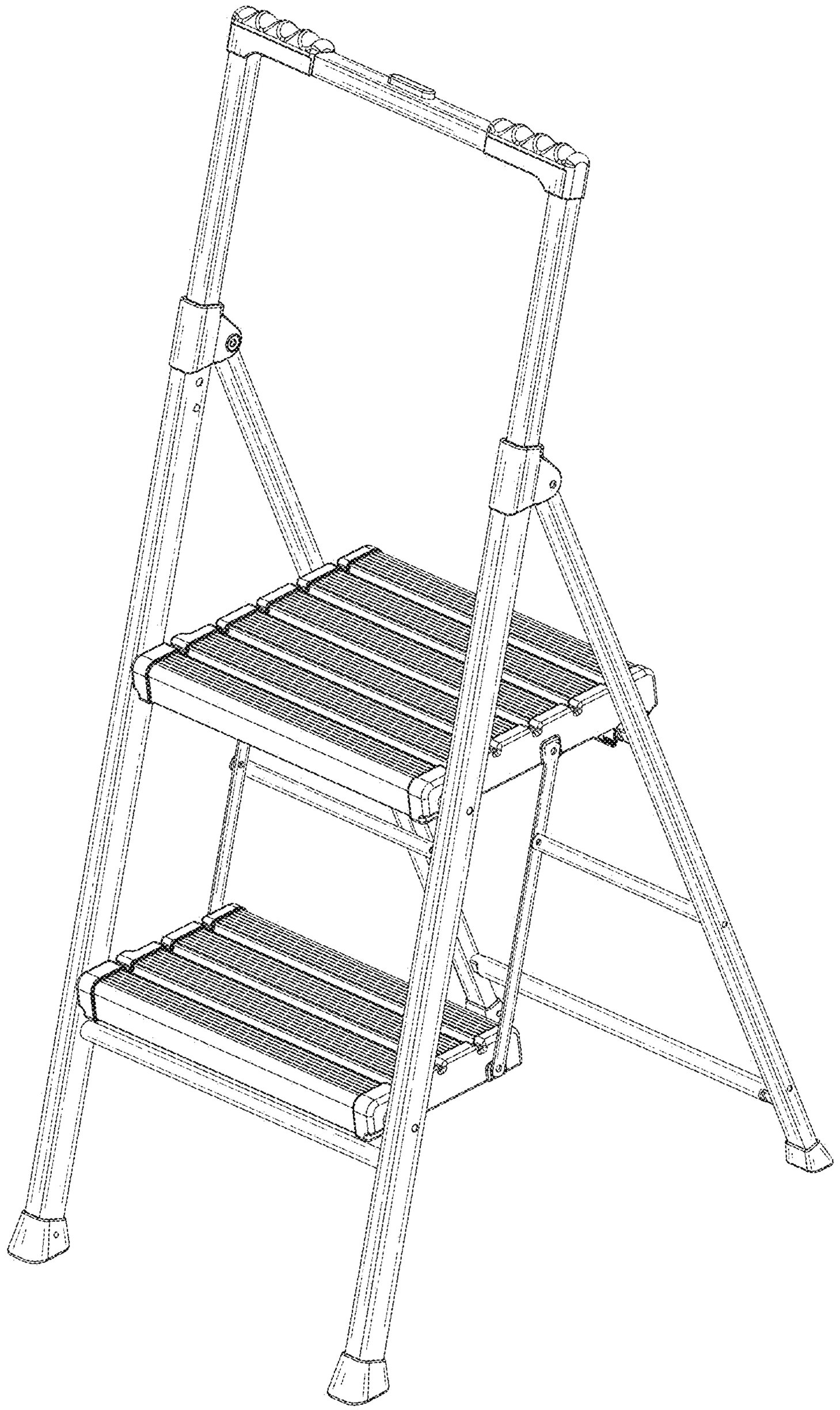


FIG. 16

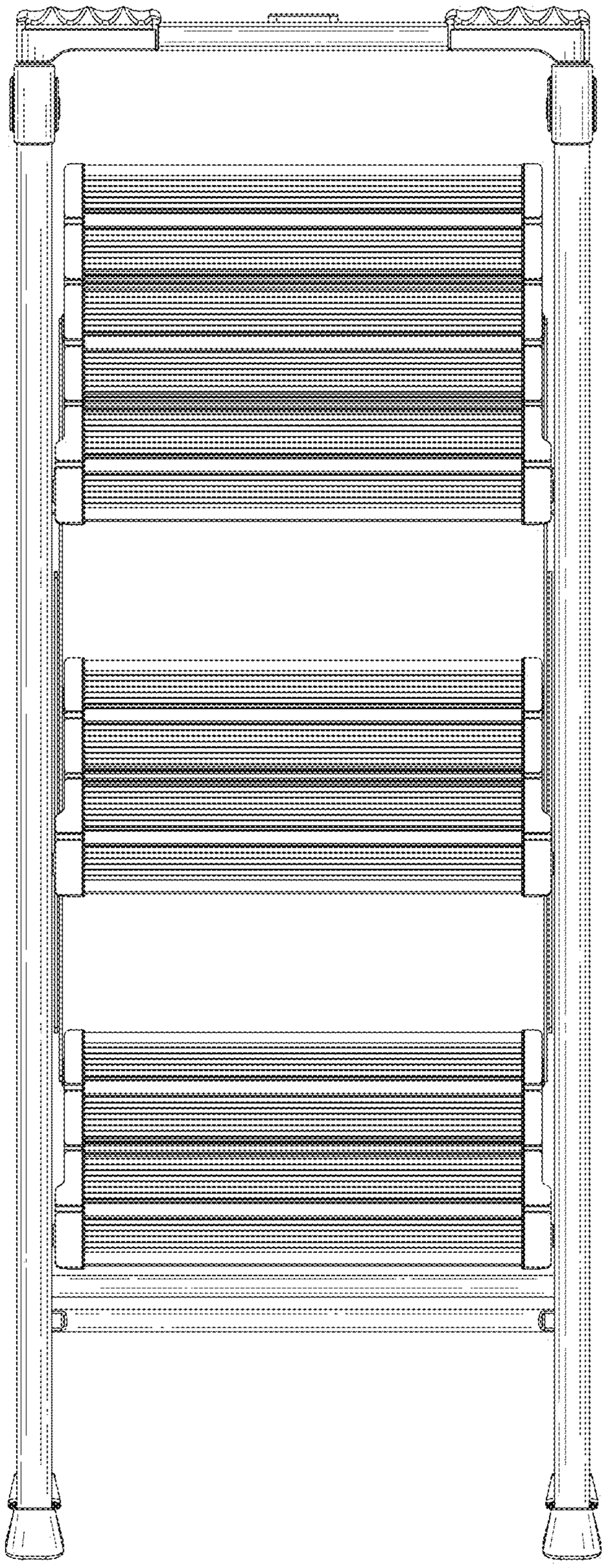


FIG. 17

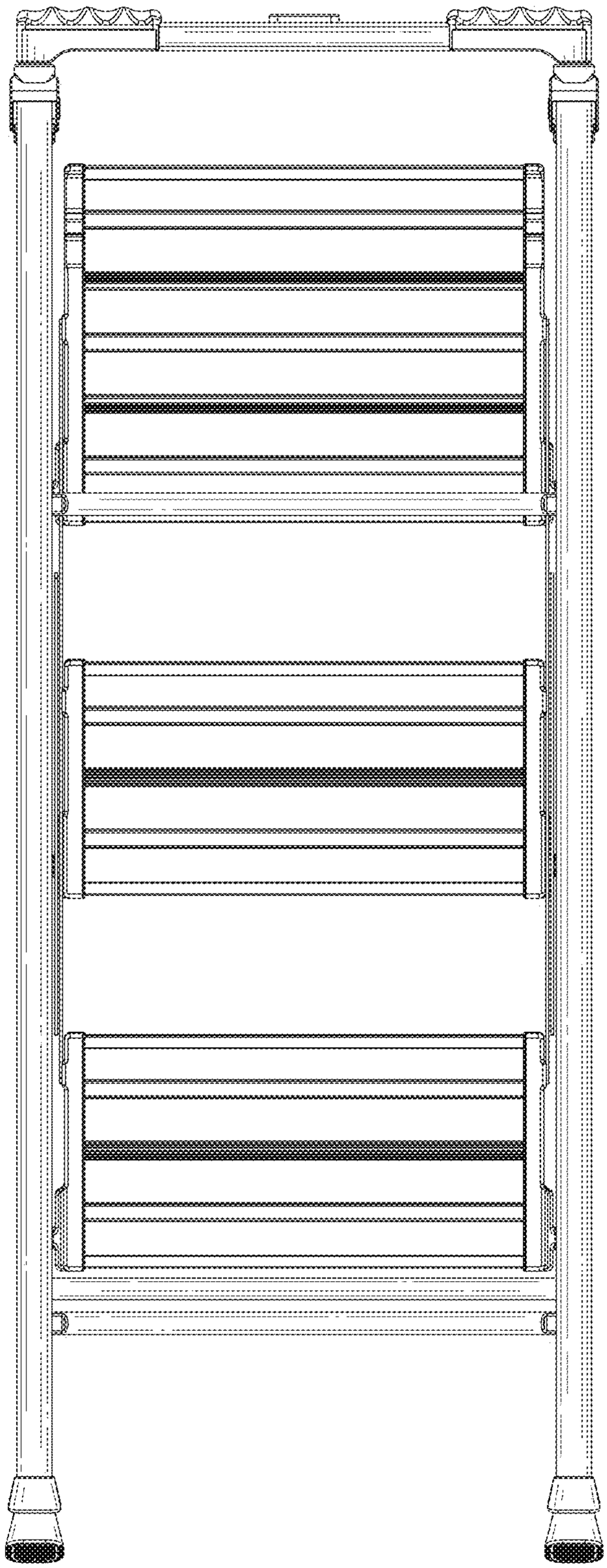


FIG. 18

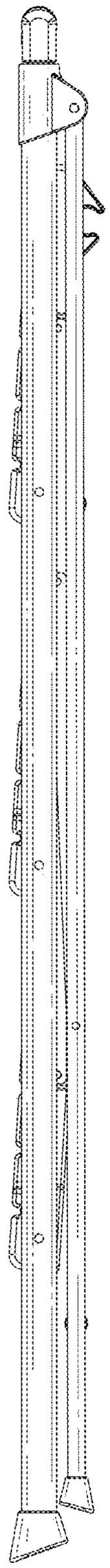


FIG. 19

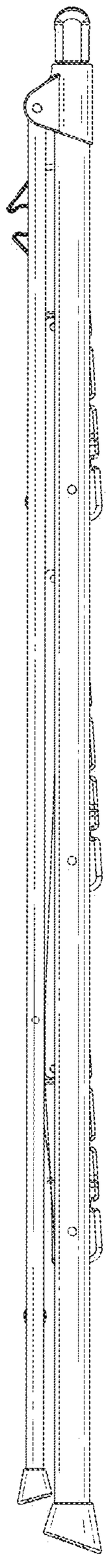


FIG. 20

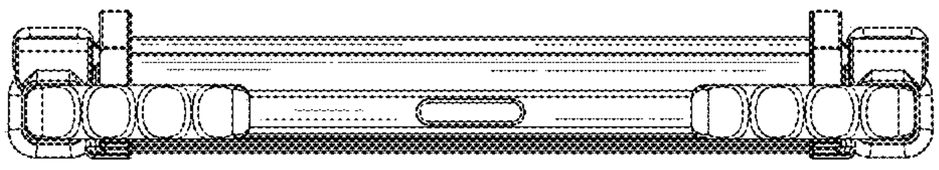


FIG. 21

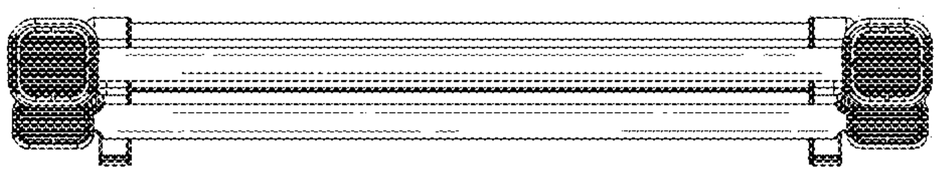


FIG. 22

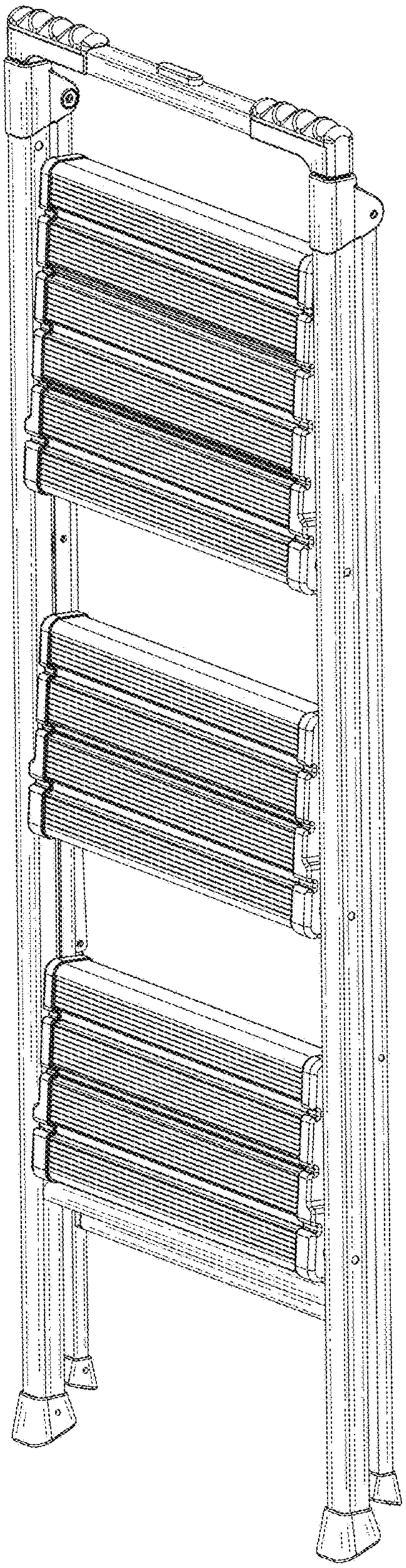


FIG. 23

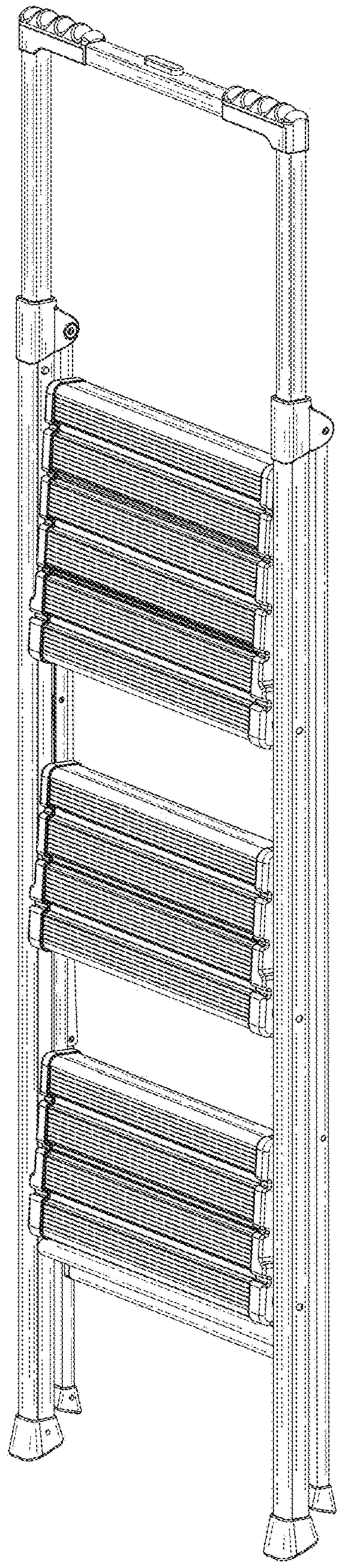


FIG. 24

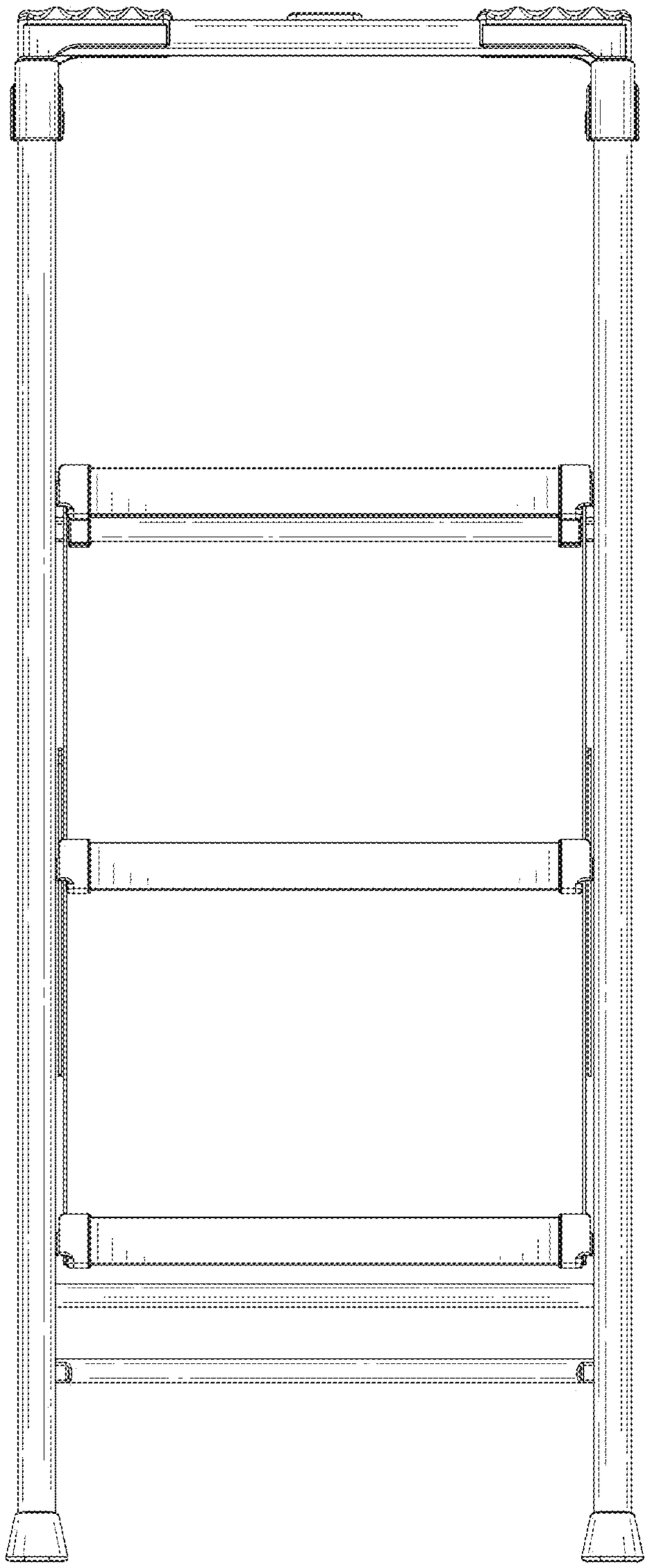


FIG. 25

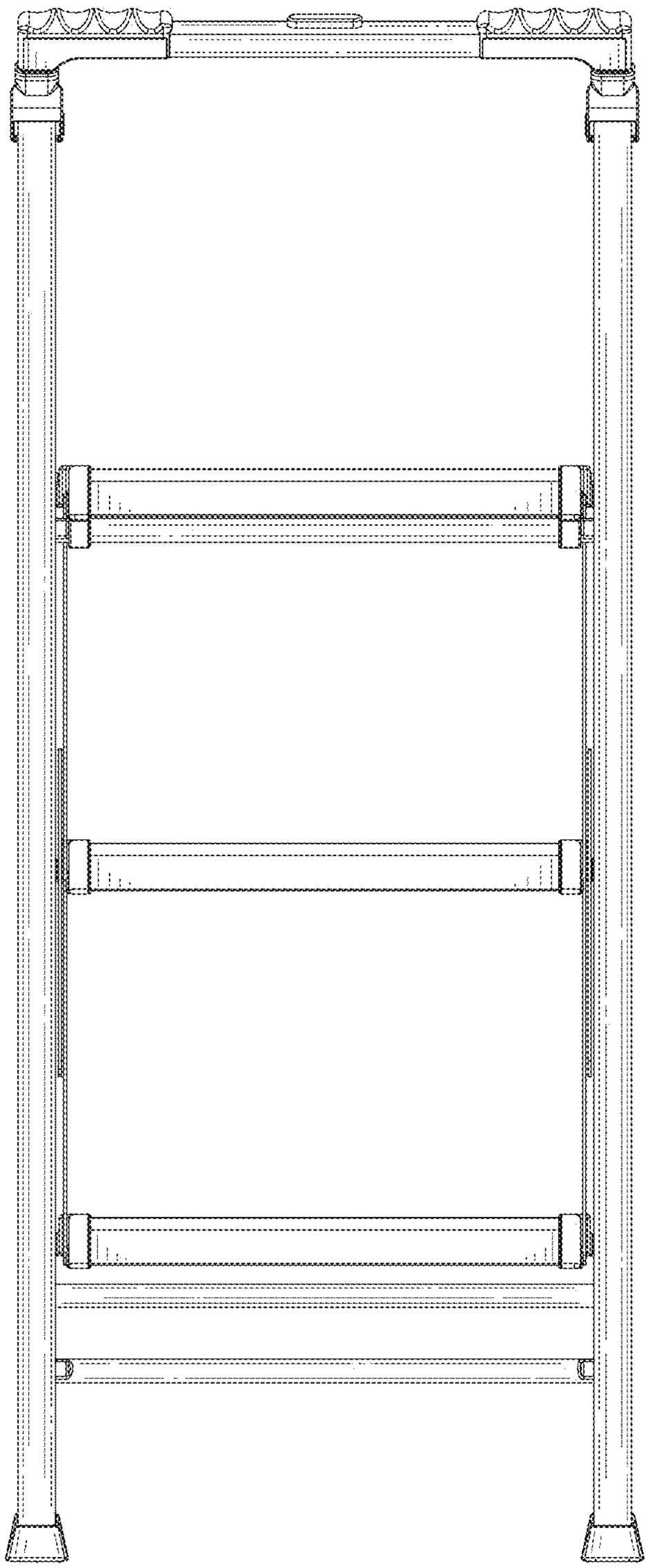


FIG. 26

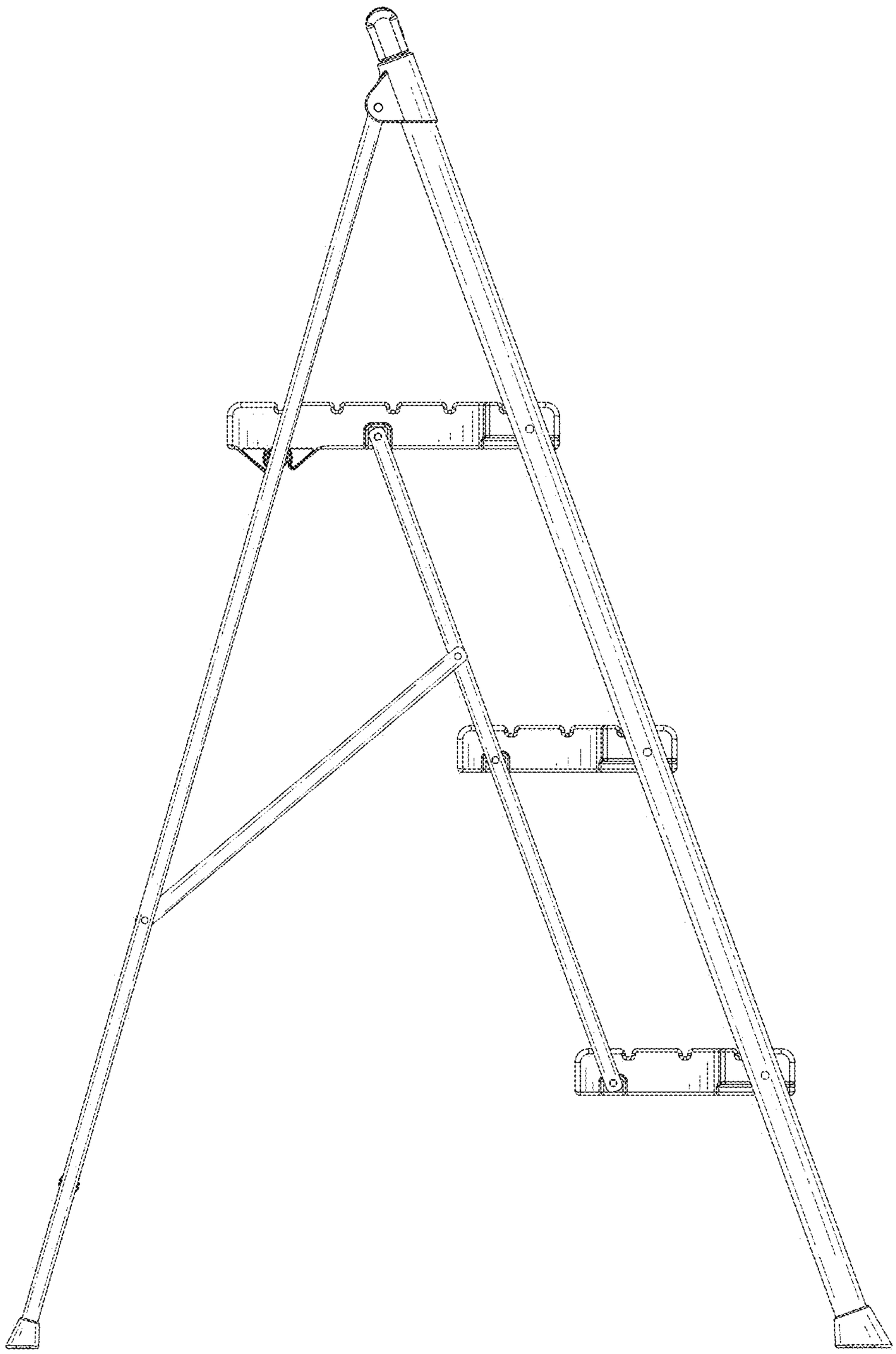


FIG. 27

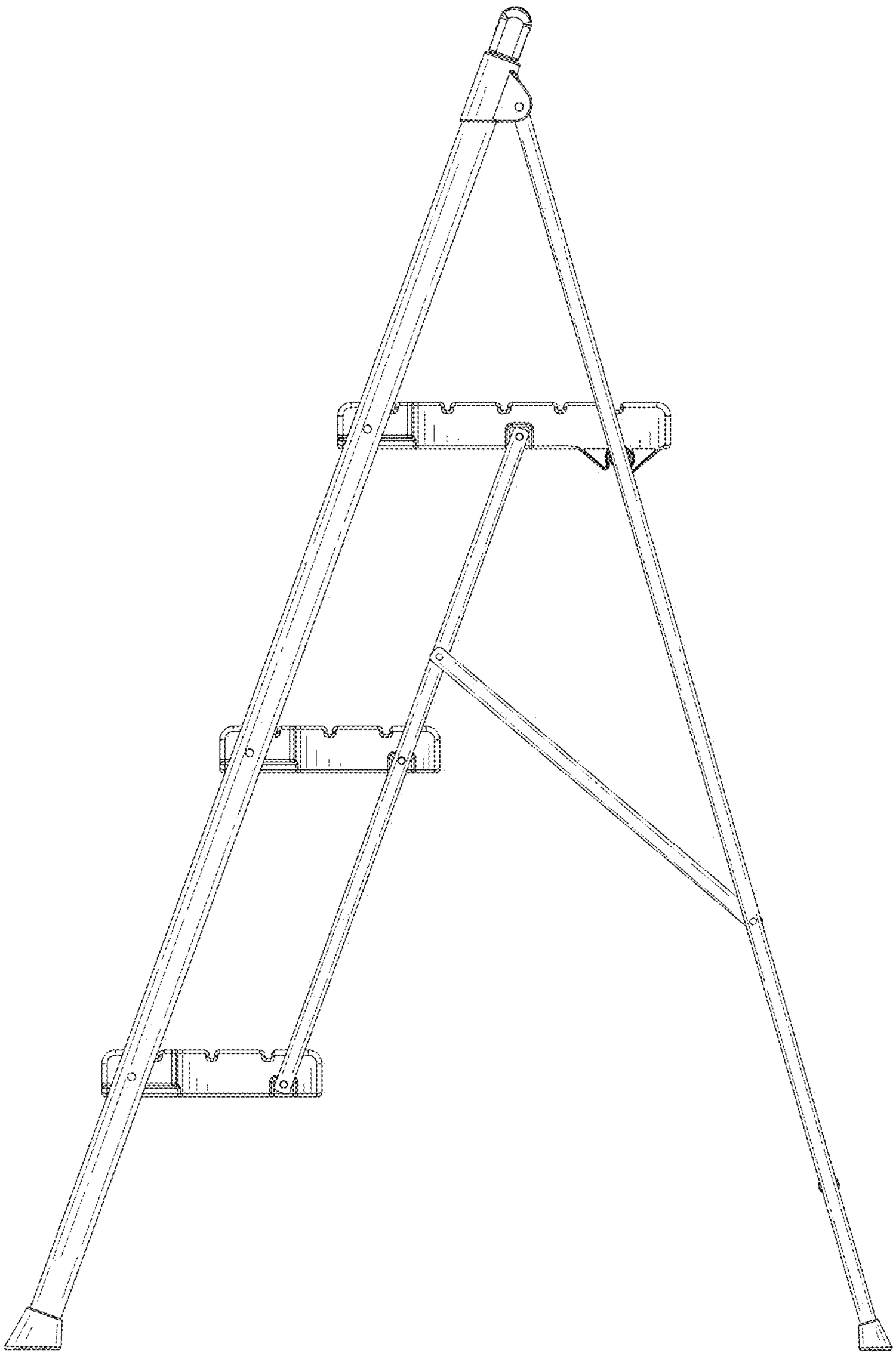


FIG. 28

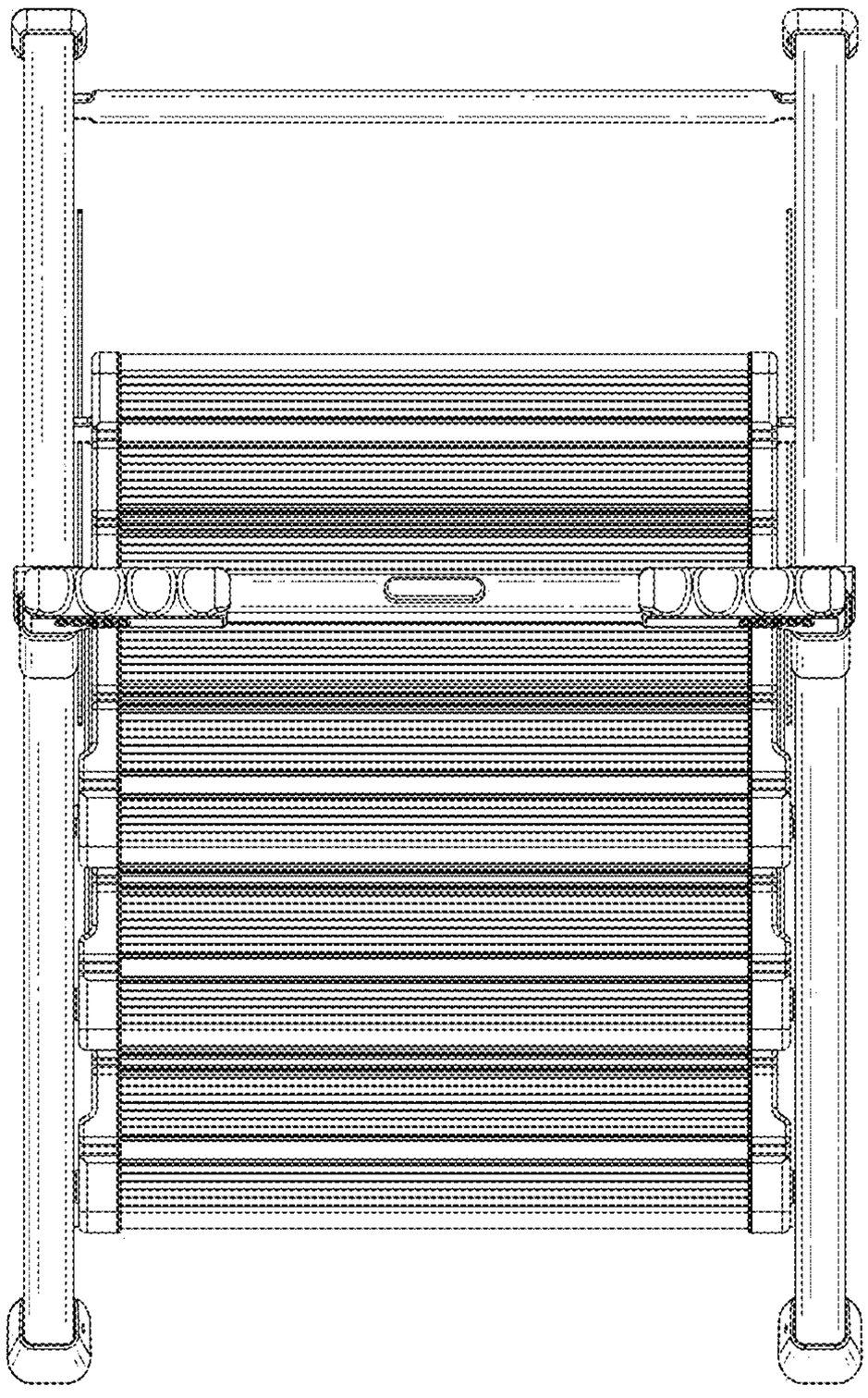


FIG. 29

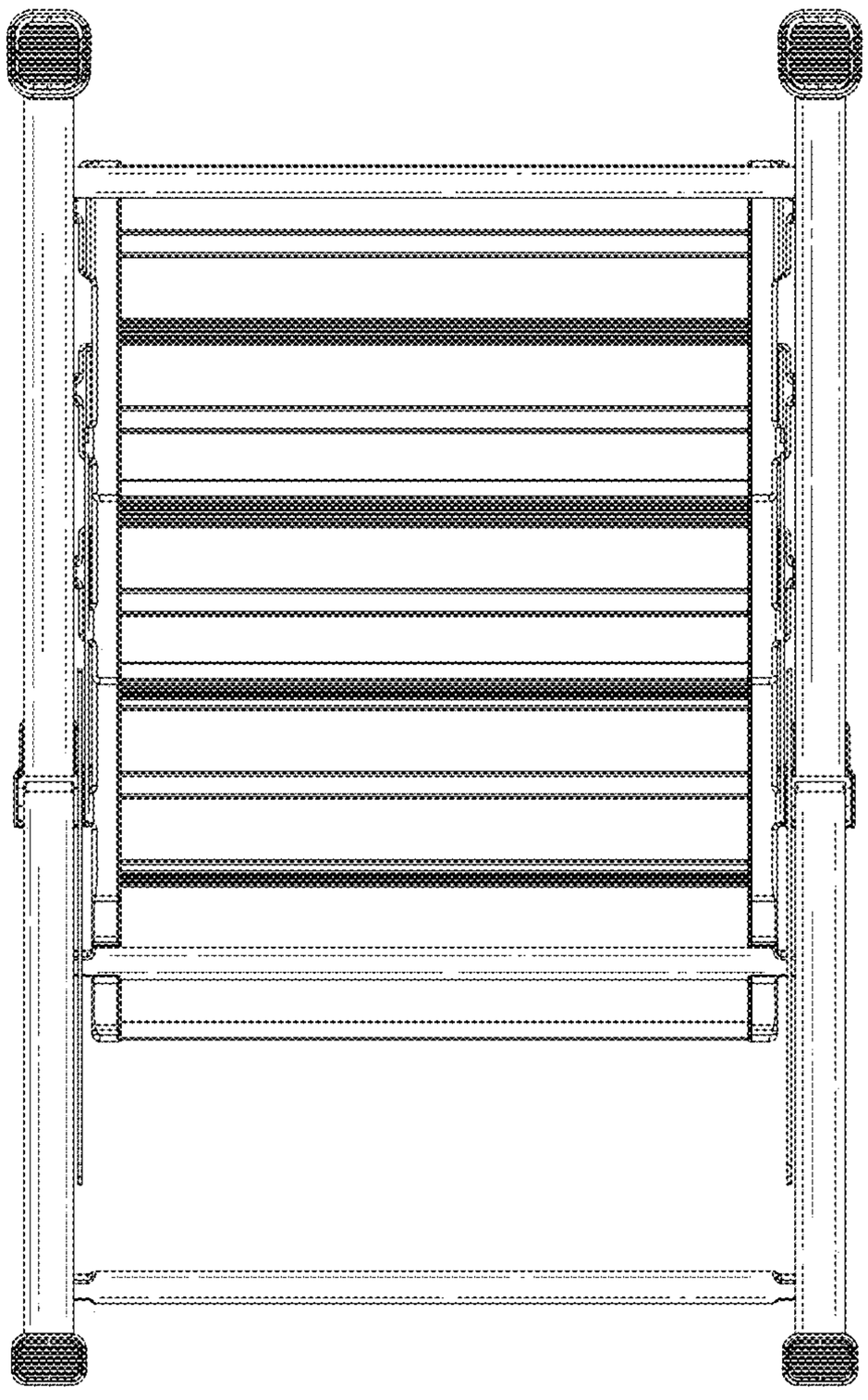


FIG. 30

FIG. 31

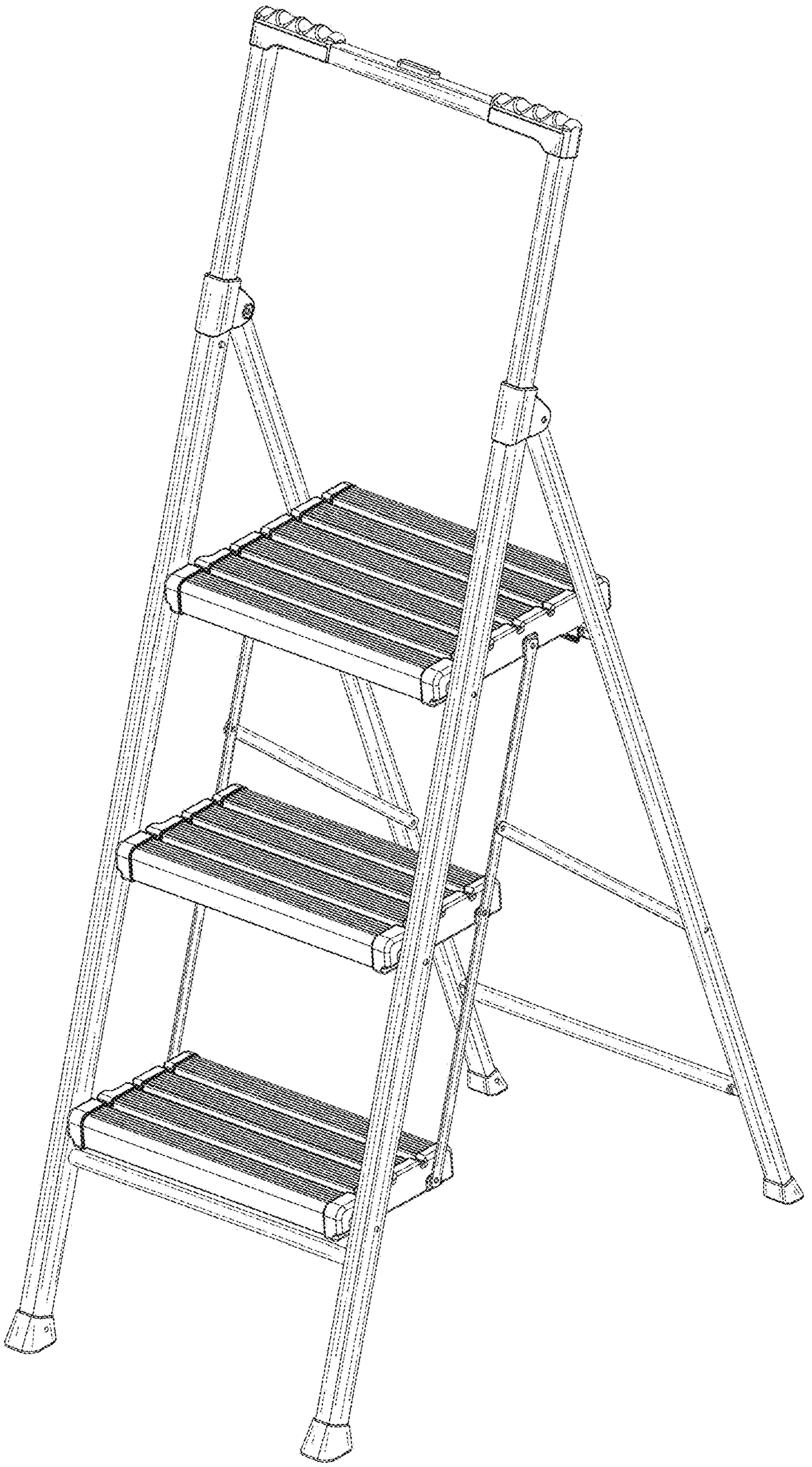


FIG. 32