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(12) **United States Design Patent** (10) **Patent No.:** **US D770,548 S**
Lin (45) **Date of Patent:** **** *Nov. 1, 2016**

(54) **LINEAR ACTUATOR**

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(*) Notice: This patent is subject to a terminal disclaimer.

(**) Term: **14 Years**

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(51) **LOC (10) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/143**

(58) **Field of Classification Search**
USPC D13/118, 158, 162, 184; D15/1-5, 7, 9, D15/143, 148, 149, 199
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D263,715 S * 4/1982 Walter D15/199
4,325,157 A * 4/1982 Balint B05C 17/0205
15/144.4
D289,164 S * 4/1987 Carr D14/231
D300,404 S * 3/1989 Lauer D8/14
D342,749 S * 12/1993 Dhuruvasangary D16/131
D394,328 S * 5/1998 Palumbo D28/7
5,927,161 A * 7/1999 Clifford B25B 23/0021
81/177.2
D422,193 S * 4/2000 Walker D8/107
6,081,967 A * 7/2000 Chang A45C 13/262
16/113.1
6,405,407 B1 * 6/2002 Chen A45C 13/262
16/113.1
D465,797 S * 11/2002 Landerholm D15/143
D467,950 S * 12/2002 Christensen D15/148
D482,530 S * 11/2003 Evans D32/50
D487,902 S * 3/2004 Nielsen D15/143

D509,520 S * 9/2005 Klinke D15/143
D524,335 S * 7/2006 Klinke D15/143
D534,560 S * 1/2007 Klinke D15/143
D553,794 S * 10/2007 Walker D28/63
D564,002 S * 3/2008 Campbell D16/135
7,337,933 B1 * 3/2008 Klinberg A47G 25/82
223/118
D570,385 S * 6/2008 Chuo D15/143
D572,281 S * 7/2008 Wei D15/143
D600,843 S * 9/2009 Thomson D26/65
D603,794 S * 11/2009 Charleux D13/112
D623,800 S * 9/2010 Clemons D28/46
D624,947 S * 10/2010 Christensen D15/143
D702,271 S * 4/2014 Lin D15/143
D708,239 S * 7/2014 Lin D15/143
D712,945 S * 9/2014 Brucksch D16/132
D729,929 S * 5/2015 McBride D24/108
D738,413 S * 9/2015 Randlov D15/143
2003/0183027 A1 * 10/2003 Koch A47B 9/04
74/89.35

(Continued)

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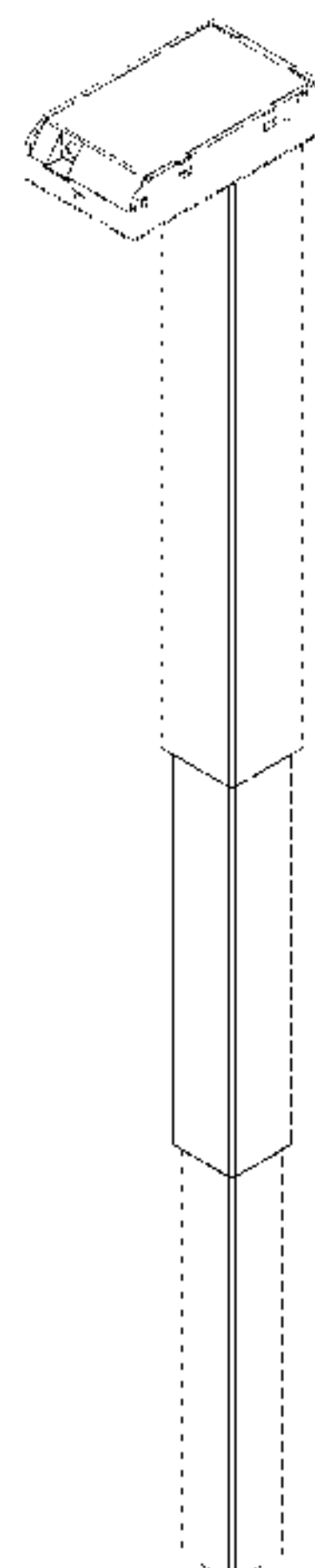
(57) **CLAIM**

The ornamental design for a linear actuator, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a linear actuator showing my new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top view thereof;
FIG. 7 is a bottom view thereof; and
FIG. 8 is second perspective view showing the linear actuator; and,
FIG. 9 is a perspective view showing an alternate condition use of the linear actuator.
The broken lines in the FIG. 7 drawings depict unclaimed environmental subject matter.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2004/0211275 A1* 10/2004 Fich A47B 9/04 74/89.23

2008/0190225 A1* 8/2008 Pfister B23Q 5/40 74/89.23

2011/0174092 A1* 7/2011 Butsuen B60J 7/0573 74/25

2012/0103740 A1* 5/2012 Moussatche A45C 13/262 190/115

2012/0227523 A1* 9/2012 Tseng B23Q 1/621 74/89.23

2013/0340547 A1* 12/2013 Yasui F16H 25/20 74/49

2014/0183429 A1* 7/2014 Conaway B60S 9/08 254/419

2015/0068332 A1* 3/2015 Bakken H02G 3/0406 74/25

2015/0202766 A1* 7/2015 Light B25G 1/04 16/429

2015/0330486 A1* 11/2015 Hu F16H 25/20 74/89.14

2016/0047446 A1* 2/2016 Hung F16H 25/2056 74/89.35

* cited by examiner

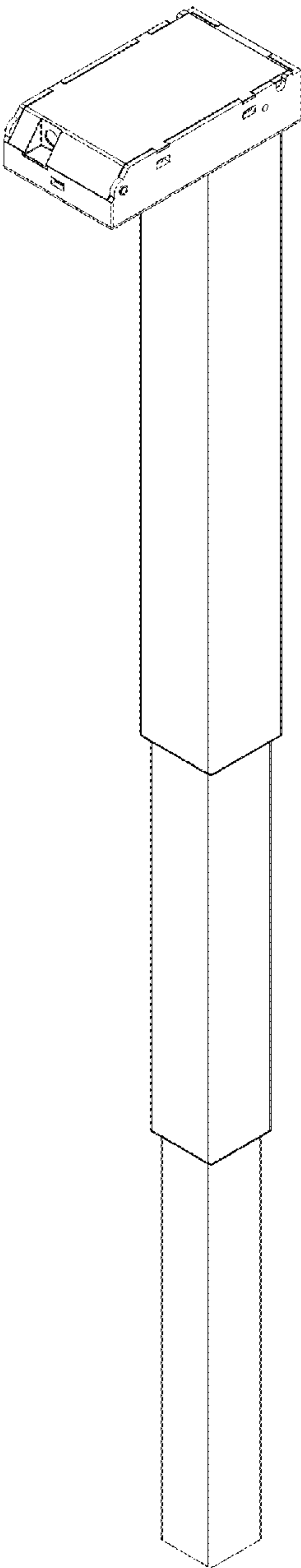


FIG.1

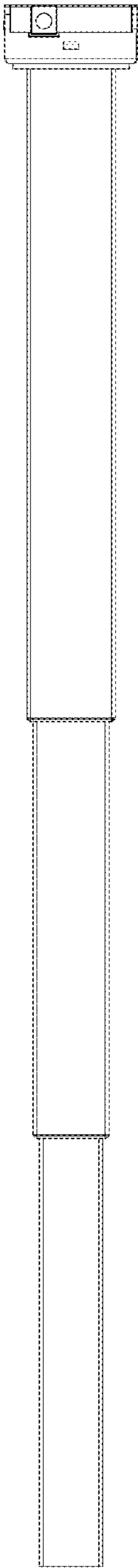


FIG.2

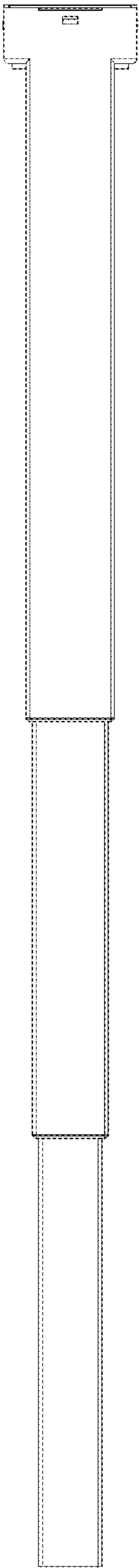


FIG.3

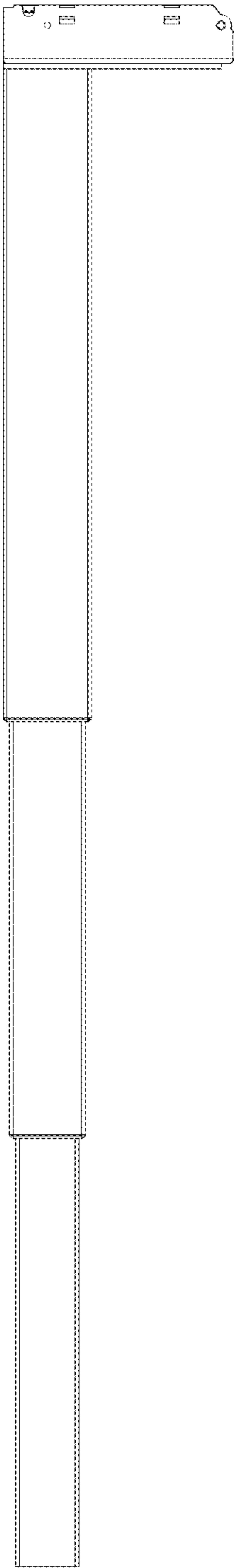


FIG.4

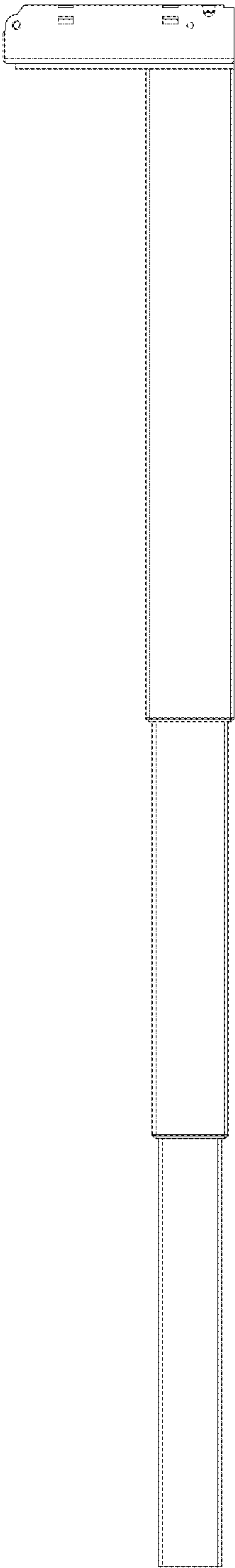


FIG.5

Replacement Sheet

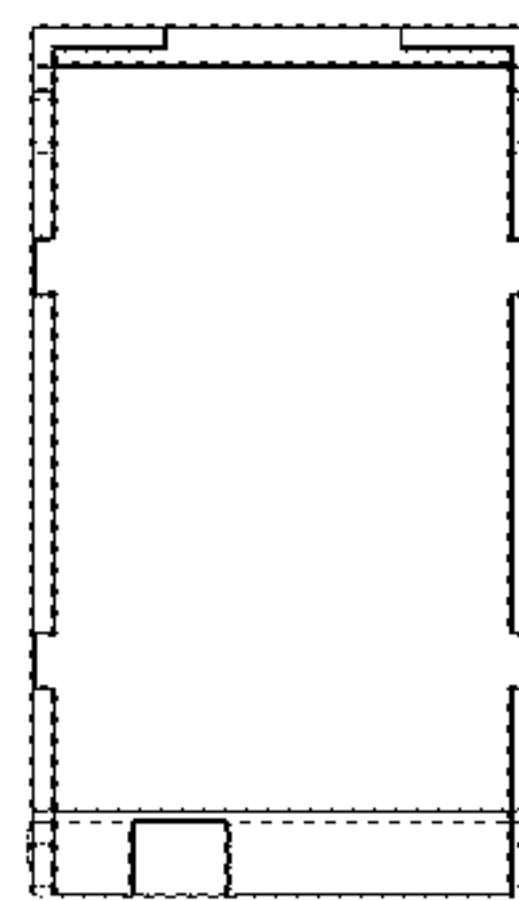


FIG. 6

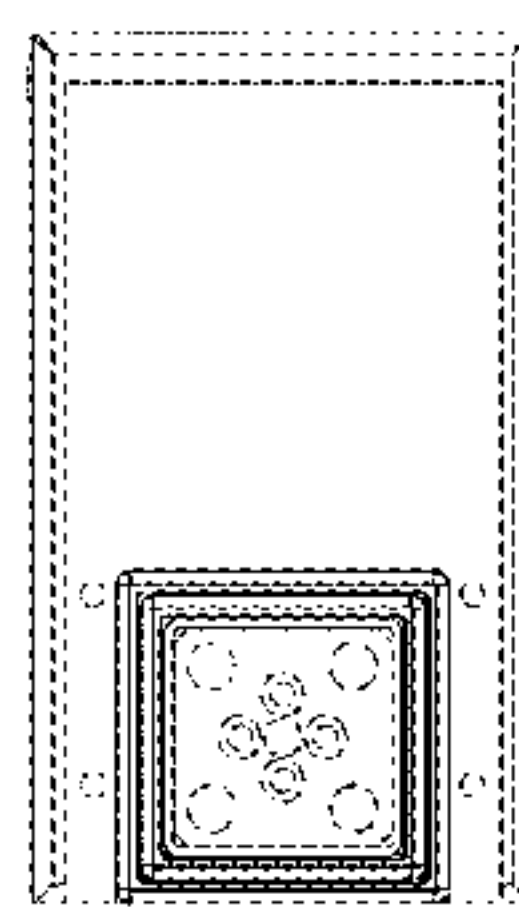


FIG. 7

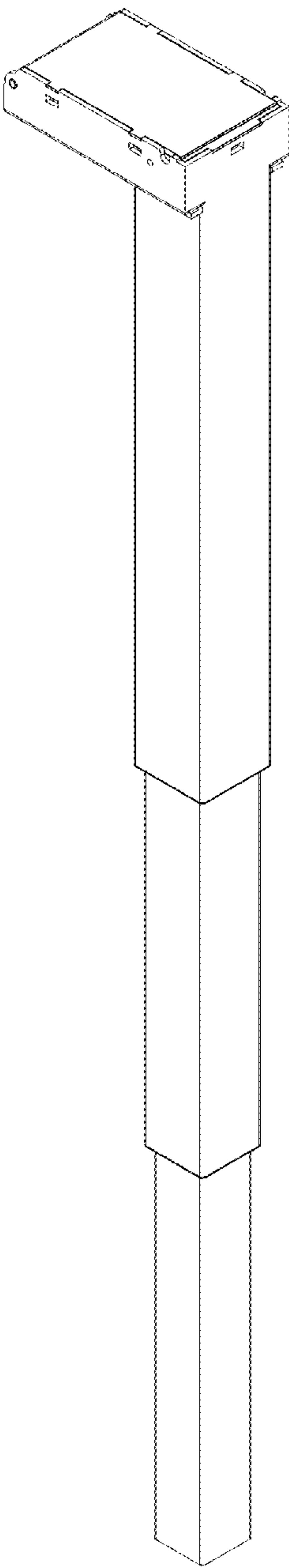


FIG.8

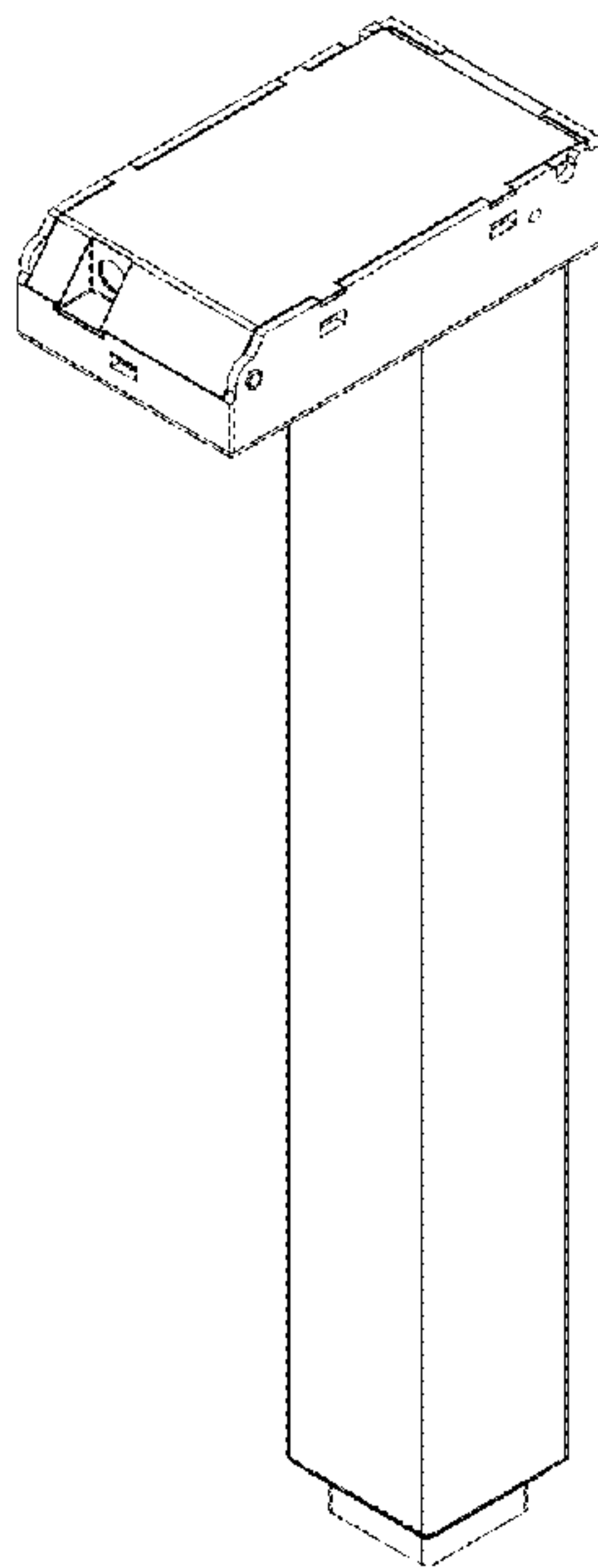


FIG.9