



US00D652776S

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

(10) **Patent No.:** **US D652,776 S**  
(45) **Date of Patent:** **\*\* Jan. 24, 2012**

(54) **AUTOMATED RETRACTABLE STEP APPARATUS**

(75) Inventors: **Cielito B. Agoncillo**, Newtown, PA (US); **W. Brian McGinty**, Huntingdon Valley, PA (US); **Michael P. Ziaylek**, Yardley, PA (US)

(73) Assignee: **Michael P. Ziaylek**, Yardley, PA (US)

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

(21) Appl. No.: **29/349,462**

(22) Filed: **Apr. 6, 2010**

(51) **LOC (9) Cl.** ..... **12-16**

(52) **U.S. Cl.** ..... **D12/203**

(58) **Field of Classification Search** ..... D12/203, D12/162; 280/166, 491.3, 491.5, 416.1, 280/497, 163-164.1, 169, 153.5, 848; 224/519, 224/524, 497; 182/90-92; D25/68-69, 62; 428/81-82; 238/14; 187/200-202; 105/444, 105/449; 414/390, 391, 399, 537; 14/71.1, 14/71.3

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

415,122	A *	11/1889	Peyton	126/222
2,118,557	A	5/1938	Hamilton	
2,492,068	A	12/1949	Schofield et al.	
3,572,754	A	3/1971	Fowler	
3,645,557	A	2/1972	Aldropp et al.	
3,833,240	A *	9/1974	Weiler	280/166
3,887,217	A	6/1975	Thomas	
4,017,093	A	4/1977	Stecker, Sr.	
4,020,920	A	5/1977	Abbott	
4,073,502	A	2/1978	Frank et al.	
4,106,790	A	8/1978	Weiler	
4,110,673	A	8/1978	Nagy et al.	
4,180,143	A	12/1979	Clugston	
4,185,849	A	1/1980	Jaeger	
4,200,303	A	4/1980	Kelly	

4,249,634	A *	2/1981	Potts	182/1
4,274,648	A *	6/1981	Robins	280/166
4,412,686	A	11/1983	Fagrell	
4,440,364	A	4/1984	Cone et al.	
4,623,160	A	11/1986	Trudell	
4,679,810	A	7/1987	Kimball	
4,708,355	A	11/1987	Tiede	
4,982,974	A	1/1991	Guidry	
5,085,450	A	2/1992	DeHart, Sr.	
5,228,707	A	7/1993	Yoder	
5,342,073	A *	8/1994	Poole	280/166
5,498,012	A	3/1996	McDaniel et al.	
5,538,269	A	7/1996	McDaniel et al.	
5,547,040	A	8/1996	Hanser et al.	
5,842,709	A	12/1998	Maccabee	
5,957,237	A	9/1999	Tigner	
6,082,751	A *	7/2000	Hanes et al.	280/163
6,135,472	A	10/2000	Wilson et al.	
6,149,172	A *	11/2000	Pascoe et al.	280/166
6,213,486	B1	4/2001	Kunz et al.	
6,641,158	B2	11/2003	Leitner	

(Continued)

*Primary Examiner* — Caron D Veynar

*Assistant Examiner* — Katrina A Betton

(74) *Attorney, Agent, or Firm* — Sperry, Zoda & Kane

(57) **CLAIM**

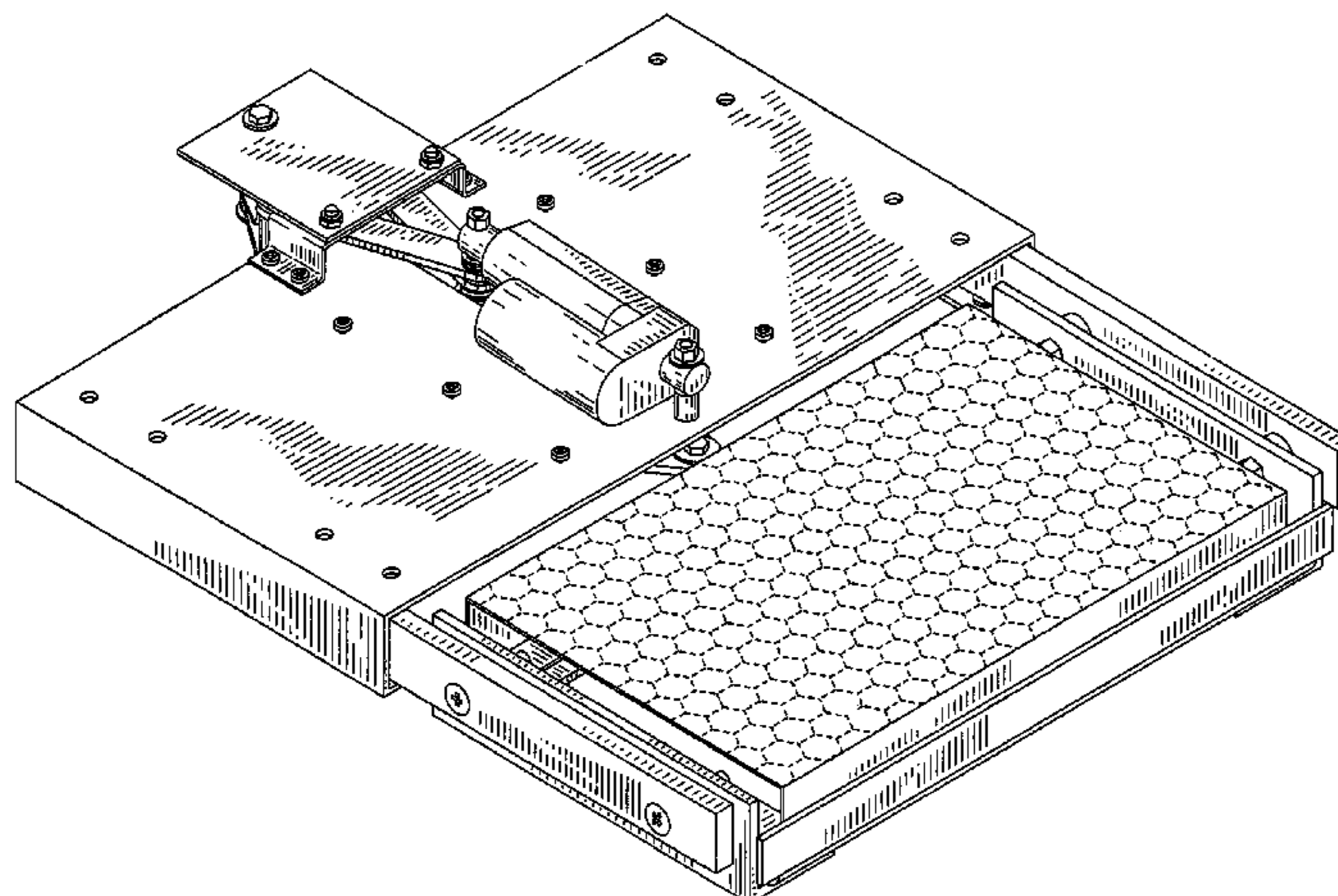
The ornamental design for an automated retractable step apparatus, as shown and described.

**DESCRIPTION**

FIG. 1 is a front three-quarter perspective taken from the left embodying our new design; FIG. 2 is a front plan view; FIG. 3 is a rear plan view; FIG. 4 is a side plan view as seen from the left in FIG. 1; FIG. 5 is a side plan view as seen from the right in FIG. 1; FIG. 6 is a top plan view; and, FIG. 7 is a bottom plan view.

The broken lines shown in the drawings represent unclaimed portions of the automated retractable step apparatus and form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



# US D652,776 S

Page 2

---

U.S. PATENT DOCUMENTS			
6,655,706	B1 *	12/2003	Murrell ..... 280/166
6,685,204	B1	2/2004	Hehr
6,830,257	B2	12/2004	Leitner
6,834,875	B2	12/2004	Leitner et al.
6,880,843	B1 *	4/2005	Greer, Jr. .... 280/166
6,938,909	B2	9/2005	Leitner
6,942,233	B2	9/2005	Leitner et al.
7,007,961	B2	3/2006	Leitner et al.
7,055,839	B2	6/2006	Leitner
7,114,736	B2 *	10/2006	Stodola et al. .... 280/164.1
7,163,221	B2	1/2007	Leitner
7,168,722	B1	1/2007	Piotrowski et al.
7,195,262	B2 *	3/2007	Chaudoin et al. .... 280/166
7,219,911	B2	5/2007	Sukonthapanich et al.
7,367,574	B2	5/2008	Leitner
7,380,807	B2	6/2008	Leitner
7,398,985	B2	7/2008	Leitner et al.
7,413,204	B2	8/2008	Leitner
7,469,916	B2 *	12/2008	Watson ..... 280/166
7,503,572	B2	3/2009	Park et al.
7,584,975	B2 *	9/2009	Leitner ..... 280/166
7,637,519	B2 *	12/2009	Leitner et al. .... 280/166
7,811,045	B2 *	10/2010	Butta ..... 414/462
7,857,337	B2 *	12/2010	Ferguson et al. .... 280/166
7,900,949	B1 *	3/2011	Russell, Jr. .... 280/477
7,926,827	B2 *	4/2011	Kircher ..... 280/166
7,934,736	B2 *	5/2011	Kircher ..... 280/166
7,971,891	B2 *	7/2011	Kircher ..... 280/163
7,976,042	B2 *	7/2011	Watson et al. .... 280/166
2008/0157500	A1 *	7/2008	Raley et al. .... 280/166
2009/0189365	A1 *	7/2009	Ferguson et al. .... 280/166
2010/0264618	A1 *	10/2010	Agoncillo et al. .... 280/166

\* cited by examiner

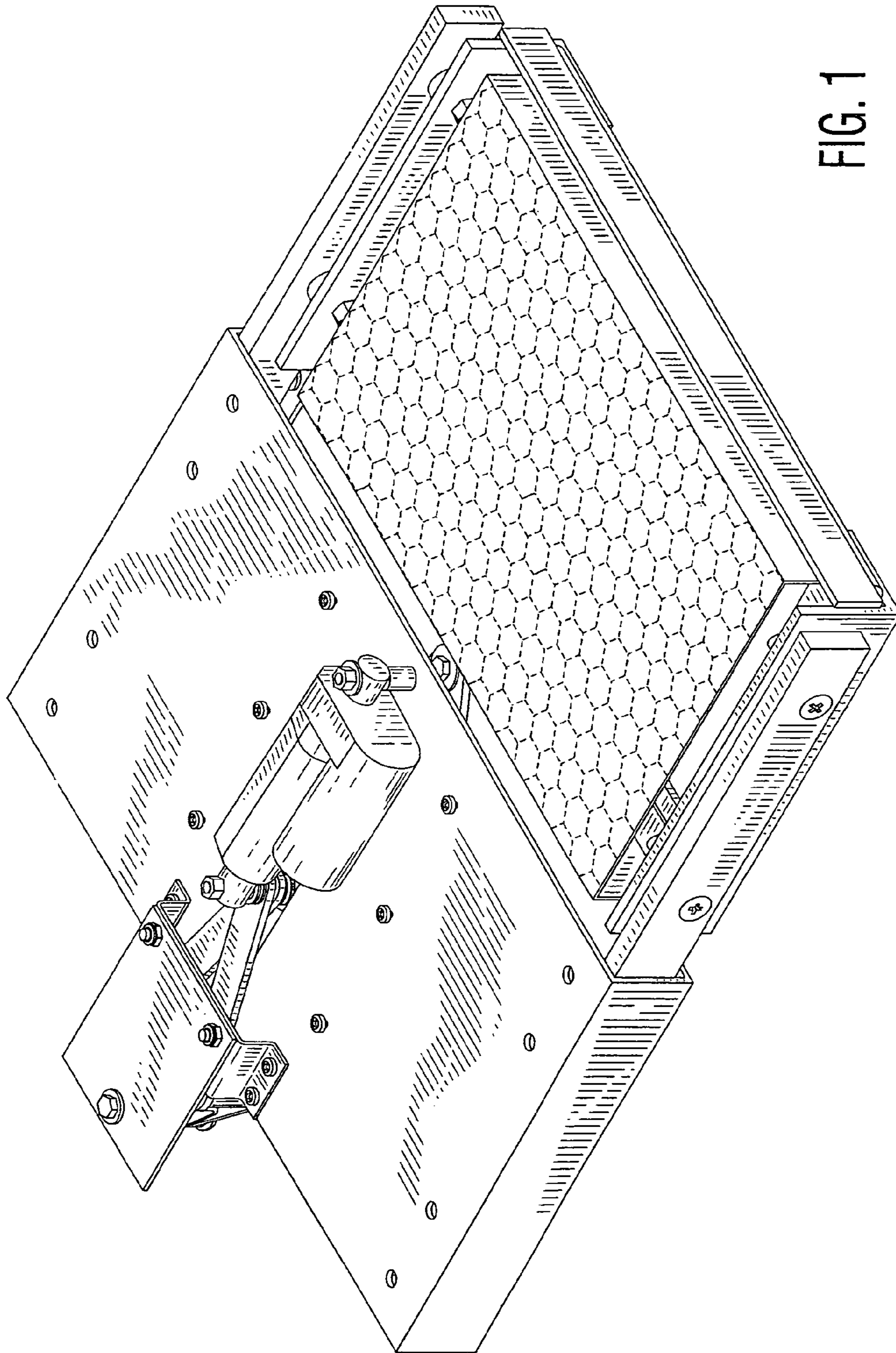


FIG. 1

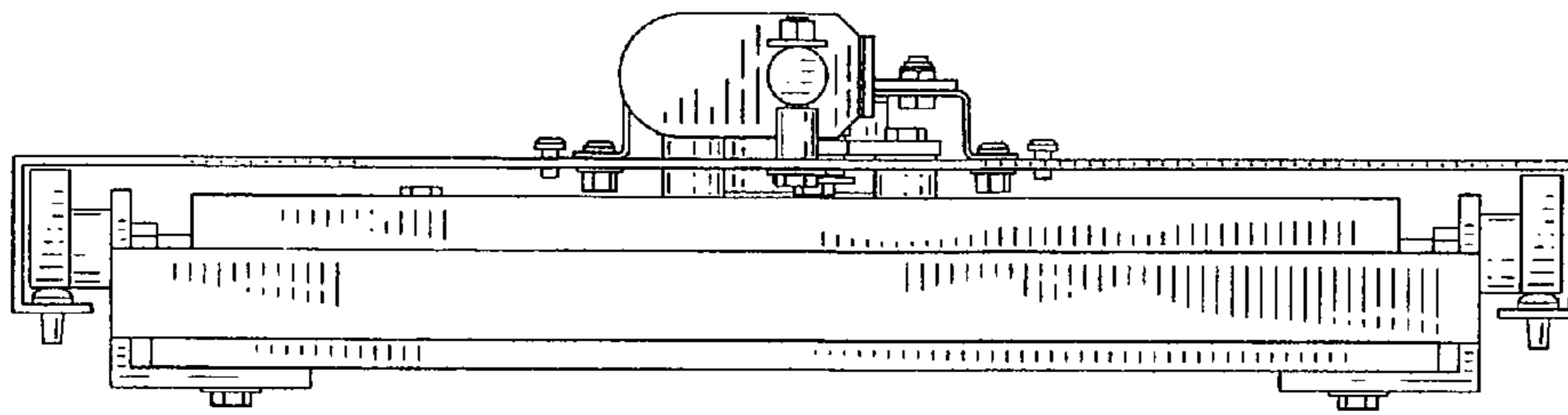


FIG. 2

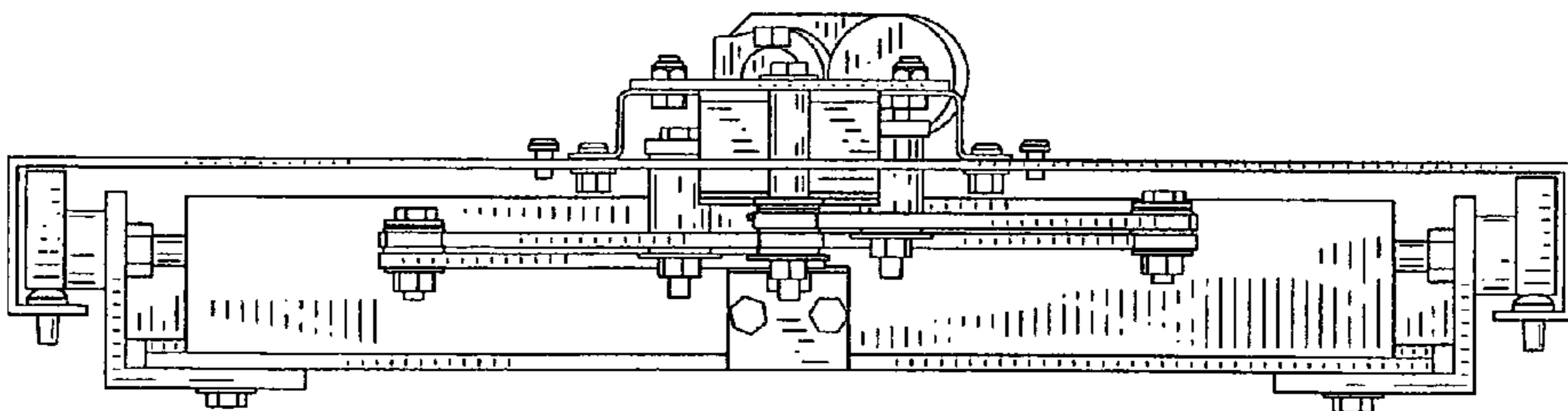


FIG. 3

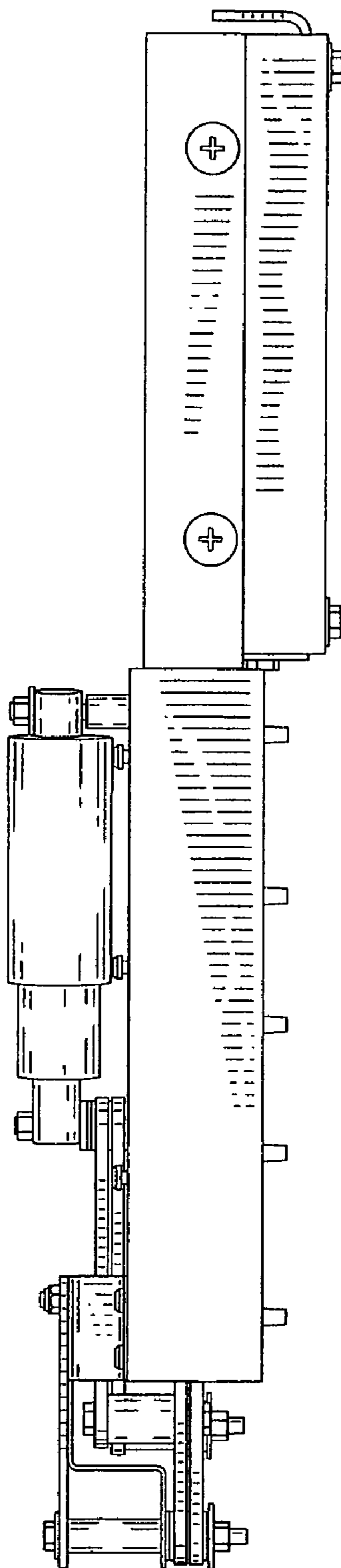


FIG. 4

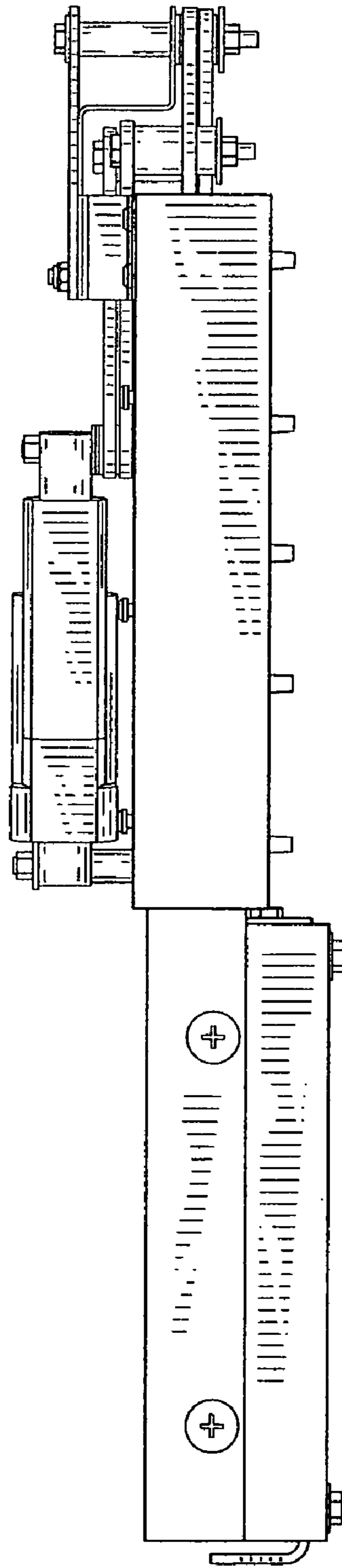


FIG. 5

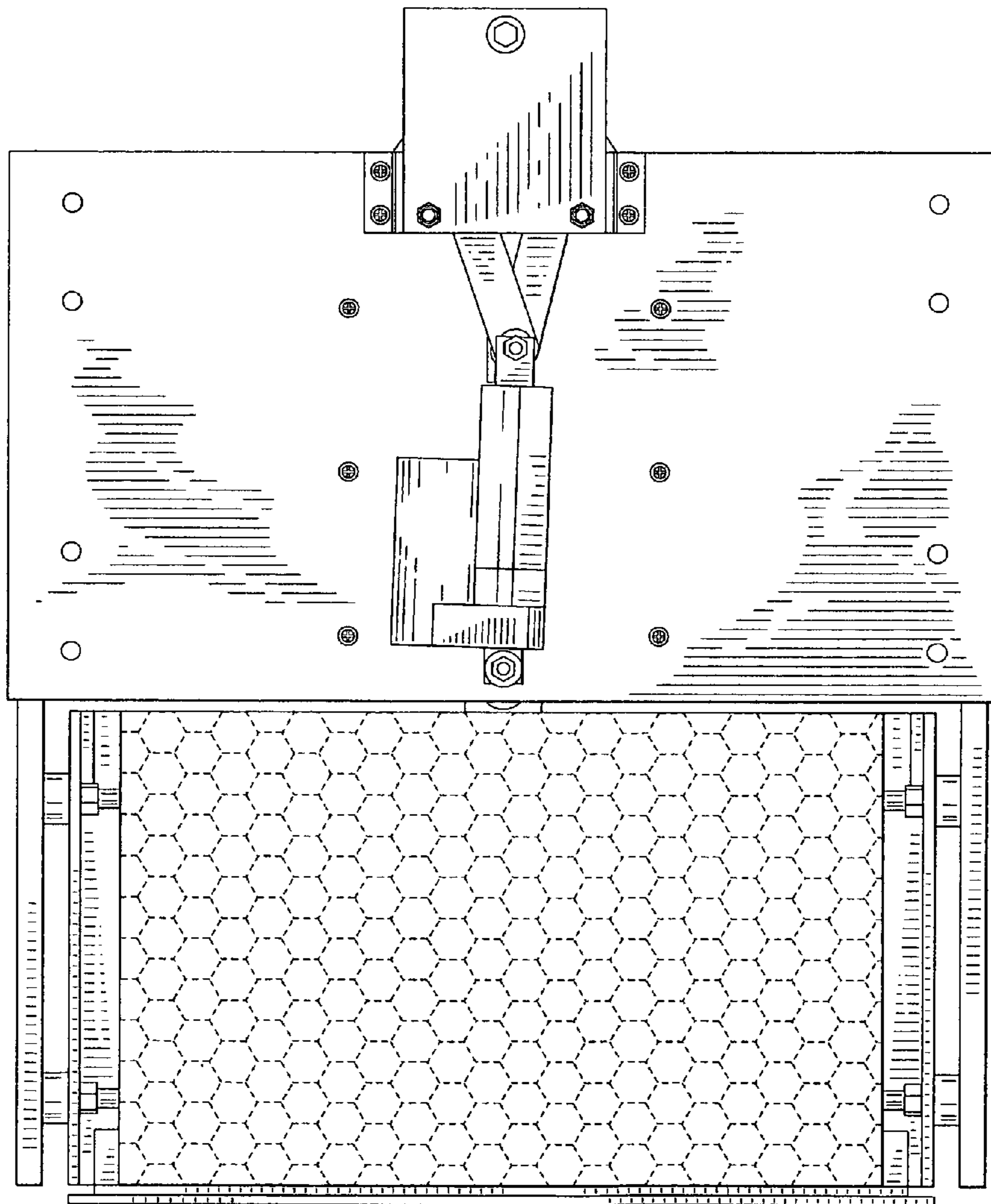


FIG. 6

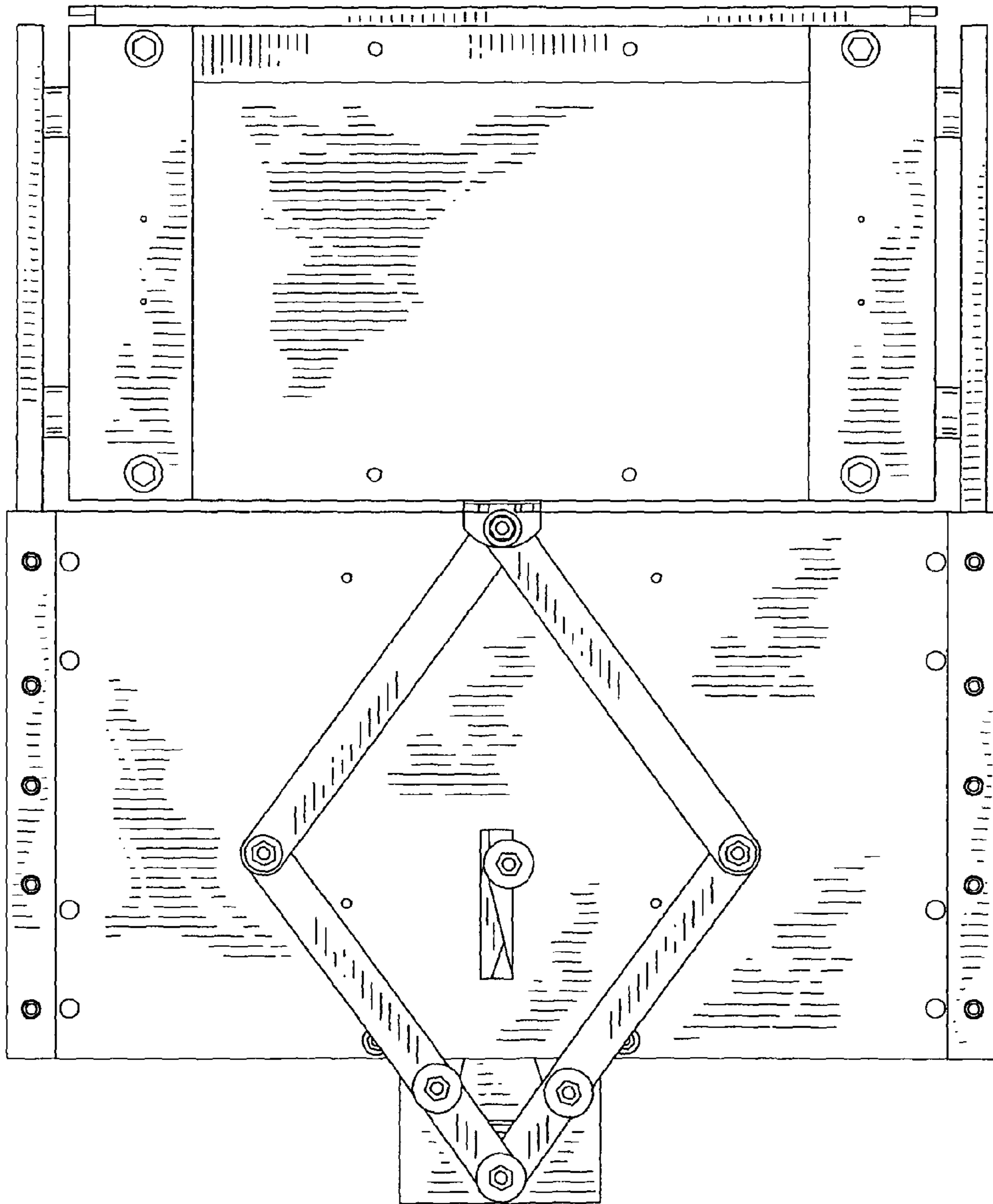


FIG. 7