



US00D754991S

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

(10) **Patent No.:** **US D754,991 S**
(45) **Date of Patent:** **** May 3, 2016**

(54) **MODULAR WALL INCORPORATING
RECESSED, EXTENDABLE FURNITURE**

(56) **References Cited**

U.S. PATENT DOCUMENTS

(71) Applicant: **DIRTT Environmental Solutions,
LTd., Calgary (CA)**

2,042,290 A 5/1936 Barrett
2,658,810 A 11/1953 Ellis
2,676,481 A 4/1954 Hoffman
3,037,593 A 6/1962 Webster
3,180,457 A 4/1965 Bohnsack

(72) Inventors: **Geoff Gosling, Calgary (CA); Mogens
Smed, DeWinton (CA); Colin Blehm,
Calgary (CA); Gregory Gordon
Charles Olsen, Calgary (CA)**

(Continued)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **DIRTT Environmental Solutions,
LTD, Calgary (CA)**

CA 1294107 11/1987
CA 2002674 5/1991

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/493,280**

International Search Report and Written Opinion for PCT/US2012/
041906 mailed Jan. 31, 2013.

(22) Filed: **Jun. 6, 2014**

(Continued)

Related U.S. Application Data

Primary Examiner — Ricky Pham

(63) Continuation of application No. 13/582,978, filed as
application No. PCT/US2012/042314 on Jun. 13,
2012, now Pat. No. 9,084,489.

(74) *Attorney, Agent, or Firm* — Workman Nydegger

(51) **LOC (10) Cl.** **06-04**

(57) **CLAIM**

(52) **U.S. Cl.**
USPC **D6/664**

The ornamental design for a modular wall incorporating
recessed, extendable furniture, as shown and described.

(58) **Field of Classification Search**
USPC D6/553, 653.1, 657, 660–661,
D6/662–662.1, 663, 664, 671, 671.1, 672,
D6/705; D25/3

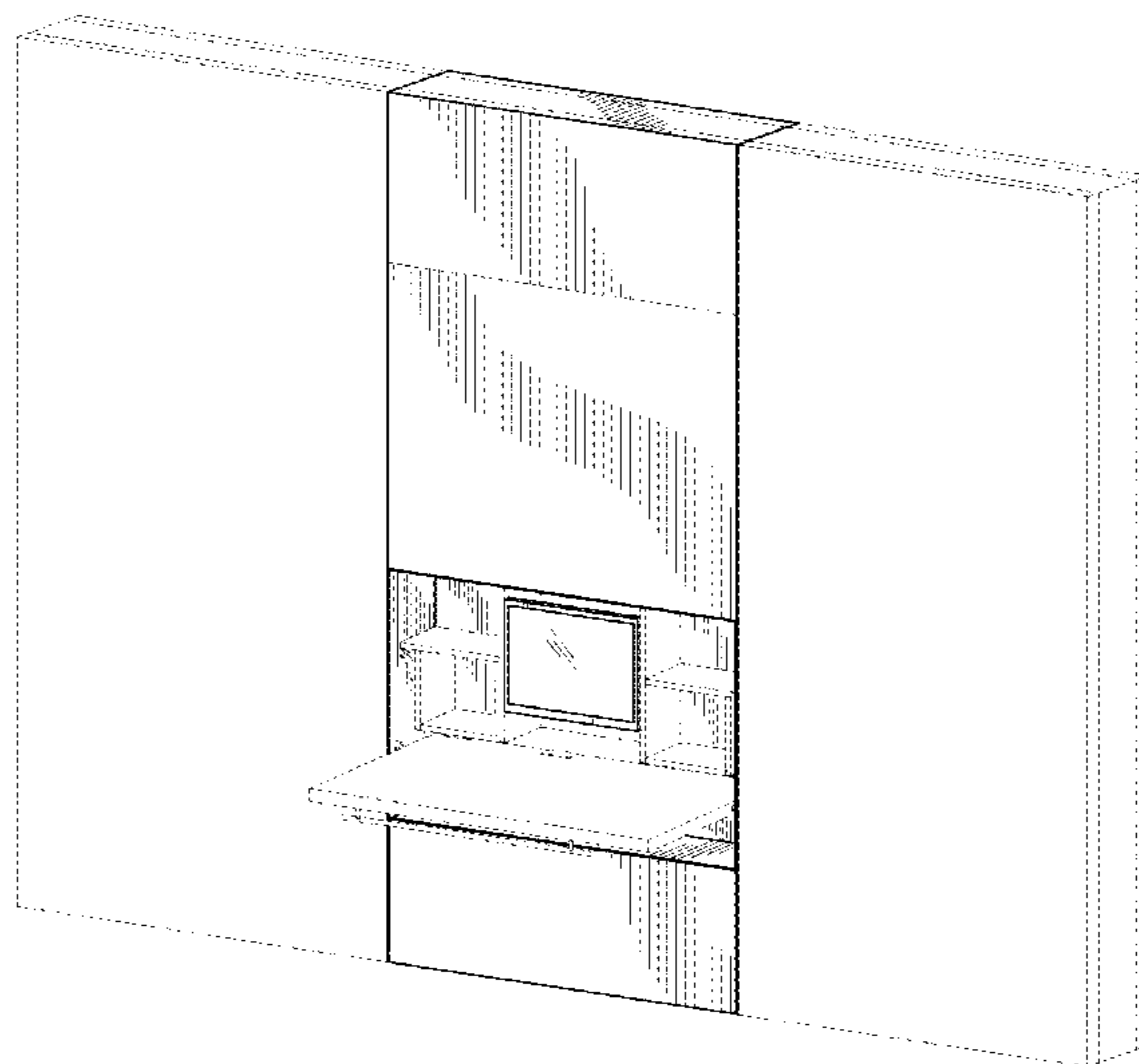
DESCRIPTION

CPC A47B 5/04; A47B 17/03; A47B 17/04;
A47B 46/005; A47B 96/00; A47F 3/00;
A47F 3/005; A47F 3/06; E04B 2/745; E04B
2/7416; E04B 2/7424; E04B 2/7425; E04B
2/7435; E04F 13/081

FIG. 1 is a perspective view of a modular wall incorporating
recessed, extendable furniture showing the design;
FIG. 2 is another perspective view thereof showing a door of
the recessed, extendable furniture in an opened position;
FIG. 3 is a front elevational view thereof;
FIG. 4 is a front elevational view thereof showing the door of
the recessed, extendable furniture in the opened position;
FIG. 5 is a right elevational view thereof;
FIG. 6 is a left elevational view thereof;
FIG. 7 is a top plan view thereof; and,
FIG. 8 is a bottom plan view thereof.
The broken lines are for illustrative purposes only and form
no part of the claimed design.

See application file for complete search history.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,621,635	A	11/1971	Lange	6,612,077	B2	9/2003	Parshad
3,885,361	A	5/1975	De Schutter	6,619,008	B1	9/2003	Shivak
4,103,373	A	8/1978	Luedtke	6,658,805	B1	12/2003	Yu
4,128,983	A	12/1978	Matsubara	6,668,514	B2	12/2003	Skov
4,277,920	A	7/1981	Dixon	D485,096	S *	1/2004	Overthun D6/553
4,438,614	A	3/1984	Raith	6,684,929	B2	2/2004	MacDonald
4,449,337	A	5/1984	Gzym	6,688,056	B2	2/2004	Von Hoyningen Huene
4,493,172	A	1/1985	Jones	6,701,677	B2	3/2004	Gresham
4,535,577	A	8/1985	Tenser	6,711,871	B2	3/2004	Beirise
4,631,881	A	12/1986	Charman	6,729,085	B2	5/2004	Newhouse
5,038,539	A	8/1991	Kelley	6,748,710	B2	6/2004	Gresham
5,056,285	A	10/1991	Frascaroli	6,775,953	B2	8/2004	Burken
D321,801	S *	11/1991	Friedman D6/705	6,799,404	B2	10/2004	Spransy
5,086,597	A	2/1992	Kelley	6,807,776	B2	10/2004	Girdwood
5,155,955	A	10/1992	Ball	6,820,388	B2	11/2004	Newhouse
5,159,793	A	11/1992	Deugo	6,851,226	B2	2/2005	MacGregor
5,204,149	A	4/1993	Phenicie	6,865,853	B2	3/2005	Burken
5,277,005	A	1/1994	Hellwig	6,883,277	B2	4/2005	Wiechecki
5,321,579	A	6/1994	Brown	6,889,477	B1	5/2005	Kottman
5,351,452	A	10/1994	Gates	6,920,727	B2	7/2005	Yu
5,352,033	A	10/1994	Gresham	6,928,785	B2	8/2005	Shipman
5,394,668	A	3/1995	Lim	6,941,716	B2	9/2005	Kottman
5,592,794	A	1/1997	Tundaun	6,944,993	B1	9/2005	Jilk
5,600,926	A	2/1997	Ehrlich	6,951,085	B2	10/2005	Hodges
5,601,348	A	2/1997	Minkovski	6,964,138	B2	11/2005	Carroll
5,642,593	A	7/1997	Sheih	6,990,909	B2	1/2006	Gosling
5,740,644	A	4/1998	Menchetti	6,993,875	B2	2/2006	Rudduck
5,802,789	A	9/1998	Goodman	7,051,482	B2	5/2006	MacDonald
5,813,178	A	9/1998	Edwards	7,150,127	B2	12/2006	Underwood
5,822,935	A	10/1998	Mitchell	7,210,270	B1	5/2007	King
5,826,385	A	10/1998	Dykstra	7,310,918	B1	12/2007	Reuter
5,836,121	A	11/1998	Hofman	7,434,790	B1	10/2008	Hansen
5,839,240	A	11/1998	Eisholz	7,451,577	B2	11/2008	Little
5,852,904	A	12/1998	Yu	7,461,484	B2	12/2008	Batley
5,870,867	A	2/1999	Mitchell	7,540,115	B2	6/2009	Metcalf
5,875,596	A	3/1999	Muller	7,562,504	B2	7/2009	Herbst
5,881,979	A	3/1999	Rozier	7,603,821	B2	10/2009	Eberlein
5,913,787	A	6/1999	Edwards	7,644,552	B2	1/2010	Kuipers
5,950,386	A	9/1999	Shipman	7,661,237	B2	2/2010	Jakob-Bamberg
6,012,258	A *	1/2000	Brown E04B 2/7424 52/204.69	7,707,790	B2	5/2010	Williams
6,047,508	A	4/2000	Goodman	7,818,932	B2	10/2010	Eberlein
6,058,667	A *	5/2000	MacDonald E04B 2/7435 52/204.53	7,827,745	B2	11/2010	Franceschet
6,112,472	A	9/2000	Van Dyk	7,832,154	B2	11/2010	Gosling
6,128,877	A	10/2000	Goodman	7,841,142	B2	11/2010	Towersey
6,134,845	A	10/2000	Shipman	7,856,777	B2	12/2010	Lamfers
6,141,926	A	11/2000	Rossiter	7,861,474	B2	1/2011	Houle
6,158,179	A	12/2000	Ackerly	7,891,148	B2	2/2011	Underwood
6,161,347	A	12/2000	Yu	7,908,805	B2	3/2011	Metcalf
6,189,270	B1	2/2001	Jeffers	7,913,459	B2	3/2011	Ball
6,223,485	B1	5/2001	Beck	7,918,064	B2	4/2011	Singleton
6,250,020	B1	6/2001	Shipman	7,922,224	B2	4/2011	Arias
6,250,032	B1	6/2001	Davis	7,984,598	B2	7/2011	Gosling
6,260,321	B1	7/2001	Rudduck	8,015,766	B2	9/2011	Gosling
6,282,854	B1	9/2001	Vos	8,015,767	B2	9/2011	Glick
6,295,764	B1	10/2001	Berrdige	8,024,901	B2	9/2011	Gosling
6,301,846	B1	10/2001	Waalkes	8,033,059	B2	10/2011	Contois
6,311,441	B1	11/2001	Beavers	8,033,068	B2	10/2011	Luttman
6,330,773	B1	12/2001	MacDonald	8,046,957	B2	11/2011	Towersey
6,341,457	B1	1/2002	Aerts	8,151,527	B2 *	4/2012	Gosling E04B 2/7425 52/238.1
6,363,663	B1	4/2002	Kane	8,151,533	B2	4/2012	Krieger
6,393,782	B1	5/2002	Berrdige	8,176,707	B2	5/2012	Gosling
6,393,783	B2	5/2002	Emaus	8,215,061	B2	7/2012	Gosling
6,397,533	B1	6/2002	Hornberger	8,272,180	B2	9/2012	Glick
6,415,567	B1	7/2002	Mead	8,307,591	B2	11/2012	Steinle
6,446,396	B1	9/2002	Marangoni	8,322,102	B2	12/2012	Krieger
6,481,168	B1	11/2002	Hodges	8,393,122	B2	3/2013	Henriott
6,484,465	B2	11/2002	Higgins	8,474,193	B2	7/2013	Sutton
6,497,075	B1	12/2002	Schreiner	8,479,026	B2	7/2013	Lakshmanan
6,530,181	B1	3/2003	Seiber	8,534,021	B2	9/2013	Liu
6,557,310	B2	5/2003	Marshall	8,656,648	B2	2/2014	Liegeois
6,571,855	B1	6/2003	Goldsmith	8,683,745	B2	4/2014	Artwohl
6,581,344	B1	6/2003	Niewiadomski	D710,025	S *	7/2014	Johnson D25/3
6,591,563	B2	7/2003	King	8,910,435	B2	12/2014	Feldpausch
				D725,638	S	3/2015	Hofman
				9,003,731	B2 *	4/2015	Gosling E04B 2/745 160/135
				9,084,489	B2 *	7/2015	Gosling A47B 5/04 5/131

(56)

References Cited

U.S. PATENT DOCUMENTS

2001/0039774	A1	11/2001	Beirise	
2002/0053174	A1	5/2002	Barmark	
2002/0108330	A1	8/2002	Yu	
2002/0121056	A1	9/2002	Von Hoyningen	
2002/0124514	A1	9/2002	Higgins	
2002/0129574	A1	9/2002	Newhouse	
2002/0144476	A1	10/2002	Mastelli	
2002/0157335	A1	10/2002	Vos	
2003/0089057	A1	5/2003	Wiechecki	
2003/0154673	A1	8/2003	MacGregor	
2003/0196388	A1*	10/2003	Edwards A47B 96/00 52/36.1
2003/0221384	A1	12/2003	Burken	
2004/0010998	A1	1/2004	Turco	
2004/0020137	A1*	2/2004	Batley E04B 2/7425 52/36.1
2004/0035074	A1	2/2004	Stanescu	
2004/0093805	A1	5/2004	Underwood	
2004/0177573	A1	9/2004	Newhouse	
2005/0005527	A1	1/2005	Metcalf	
2005/0086871	A1	4/2005	MacGregor	
2006/0042141	A1	3/2006	Hansen	
2006/0048457	A1*	3/2006	Yang E04B 2/7416 52/36.1
2006/0059806	A1	3/2006	Gosling	
2006/0185276	A1	8/2006	Pai	
2007/0277449	A1*	12/2007	Burns E04F 13/081 52/36.4
2007/0289225	A1	12/2007	Kern	
2008/0069632	A1	3/2008	Gosling	
2008/0295426	A1	12/2008	Milligan	
2008/0302054	A1	12/2008	Gosling	
2009/0021122	A1	1/2009	Green	
2009/0241437	A1	10/2009	Steinle	
2009/0260311	A1	10/2009	Boyer	
2009/0293406	A1	12/2009	Gosling	
2010/0043142	A1	2/2010	Whitford	
2010/0192511	A1	8/2010	Gosling	
2010/0223857	A1	9/2010	Sutton	
2010/0307086	A1	12/2010	Hibbs	
2011/0197519	A1*	8/2011	Henriott A47B 46/005 52/36.1
2012/0186164	A1	7/2012	Pensi	
2014/0102021	A1	4/2014	Gosling	
2014/0310873	A1	10/2014	Gosling	
2015/0007516	A1	1/2015	Glick	

FOREIGN PATENT DOCUMENTS

CA	2162300	5/1997
CA	2273631	10/2001
CA	2324050	4/2002
CA	2348060	11/2002
CA	2359165	4/2003
CA	2310869	8/2003
CA	2476368	1/2006
CA	2428593	8/2007
CA	2359547	2/2008
CA	2591176	12/2008
CA	2634407	12/2008
CA	2349964	10/2009
CA	2840843	12/2013
CA	2535213	4/2014
CA	2863783	4/2014
CH	686795	6/1996
CN	202069245	12/2011
DE	1659015	11/1971
DE	4207753	9/1993
DE	69316247	7/1998
DE	19960535	6/2001
DE	202004017808	1/2005
EP	0443202	8/1991
EP	0557092	1/1998
EP	0963719	12/1999

EP	1094167	4/2001
EP	2736382	6/2014
FR	1526637	5/1968
GB	2221946	2/1990
GB	2283071	4/1995
GB	2353541	10/2003
JP	HO3 17333	1/1991
JP	2003105908	4/2003
JP	2005155223	6/2005
KR	20000049102	7/2000
KR	1020070077502	7/2007
WO	GB1259347	1/1972
WO	GB1400613	7/1975
WO	EP0302564	2/1989
WO	WO9212074	7/1992
WO	WO9212300	7/1992
WO	WO9315970	8/1993
WO	WO9323629	11/1993
WO	WO9402695	2/1994
WO	WO9633323	10/1996
WO	WO9746770	12/1997
WO	EP0557092	1/1998
WO	WO9807357	2/1998
WO	WO9816699	4/1998
WO	WO9829623	7/1998
WO	WO9837292	8/1998
WO	WO9851876	11/1998
WO	WO9946453	9/1999
WO	WO9946455	9/1999
WO	WO9946458	9/1999
WO	WO9953156	10/1999
WO	WO9958780	11/1999
WO	WO9963177	12/1999
WO	WO0015918	3/2000
WO	WO0075447	12/2000
WO	WO0171241	9/2001
WO	WO0208851	1/2002
WO	WO0052111	4/2002
WO	WO02103129	12/2002
WO	WO03071045	8/2003
WO	WO03104581	12/2003
WO	WO 2006127804	11/2006
WO	2010121788	10/2010
WO	WO2012173930	12/2012
WO	WO2013101298	7/2013
WO	WO2013130871	9/2013
WO	WO2013185141	12/2013
WO	WO2013188211	12/2013
WO	WO2013188235	12/2013
WO	WO2014055883	4/2014

OTHER PUBLICATIONS

European Search Report, EP 12800672, Mailed Oct. 16, 2014.
 Patent Owner's Preliminary Response for Case No. IPR2015-01690
 Dated Nov. 13, 2015.
 Patent Owner's Preliminary Response for Case No. IPR2015-01691
 dated Nov. 18, 2015.
 International Search Report and Written Opinion for PCT/US2012/
 042314 mailed Jun. 13, 2012.
 Office Action for U.S. Appl. No. 14/032,931 mailed Jul. 16, 2015.
 Petition for Inter Partes Review of U.S. Pat. No. 8,024,901, IPR2015-
 01690, filed Aug. 7, 2015.
 Petition for Inter Partes Review of U.S. Pat. No. 8,024,901, IPR2015-
 01691, filed Aug. 7, 2015.
 Genius Architectural Walls, [Publication Date Unlisted], Copyright
 Date 2004 by KI, Document Code KI-00473/HC/IT/PP/504.
 KI Improves STC Rating on its Genius Architectural Wall and
 receives ICC approval, [Publication Date Unlisted], Dated Feb. 26,
 2004.
 Lifespace Environmental Wall Systems, Published Apr. 1995.
 Press Release—"KI unveils Genius Full Height Movable Wall
 Microsite with new interactive features", Accessed on Aug. 14, 2015
 at http://web.archive.org/web/20040506230219/http://www.ki.com/about_press_release.asp?id=49.
 Office Insight, Published Mar. 23, 2009.

(56)

References Cited

OTHER PUBLICATIONS

KI Genius Full-Height Moveable Walls, [Publication Date Unlisted], Copyright Date 2003 by KI, Document Code KI-00506/HC/PP/803. U.S. Specifier Guide and Price Book, Published Jan. 1998.
Achieving the Atkins Aesthetic: KI's new ThinLine option for its award-winning Genius Architectural Wall flaunts a slimmer figure, [Publication Date Unlisted], Dated Jun. 14, 2004.
SMED International—Lifespace—Technical Information, Published Jan. 1, 1996.
Teknionaltos—Price and Product Guide Update, Published Feb. 2002.
Office Action for U.S. Appl. No. 14/681,874 mailed Jul. 23, 2015.

Canadian Office Action for Application No. 2,800,414 dated Jul. 15, 2015.
Final Office Action for U.S. Appl. No. 14/657,837 Mailed Nov. 2, 2015.
European Search Report for PCT/US2012/042314 mailed Jan. 29, 2015.
Decision Denying Institution (IPR2015-01690), *Allsteel v. Dirtt Environmental Solution* dated Jan. 27, 2016.
Decision Granting Institution (IPR2015-01691), *Allsteel v. Dirtt Environmental Solutions* dated Feb. 2, 2016.
Notice of Allowance for U.S. Appl. No. 29/492,776 mailed Jan. 21, 2016.

* cited by examiner

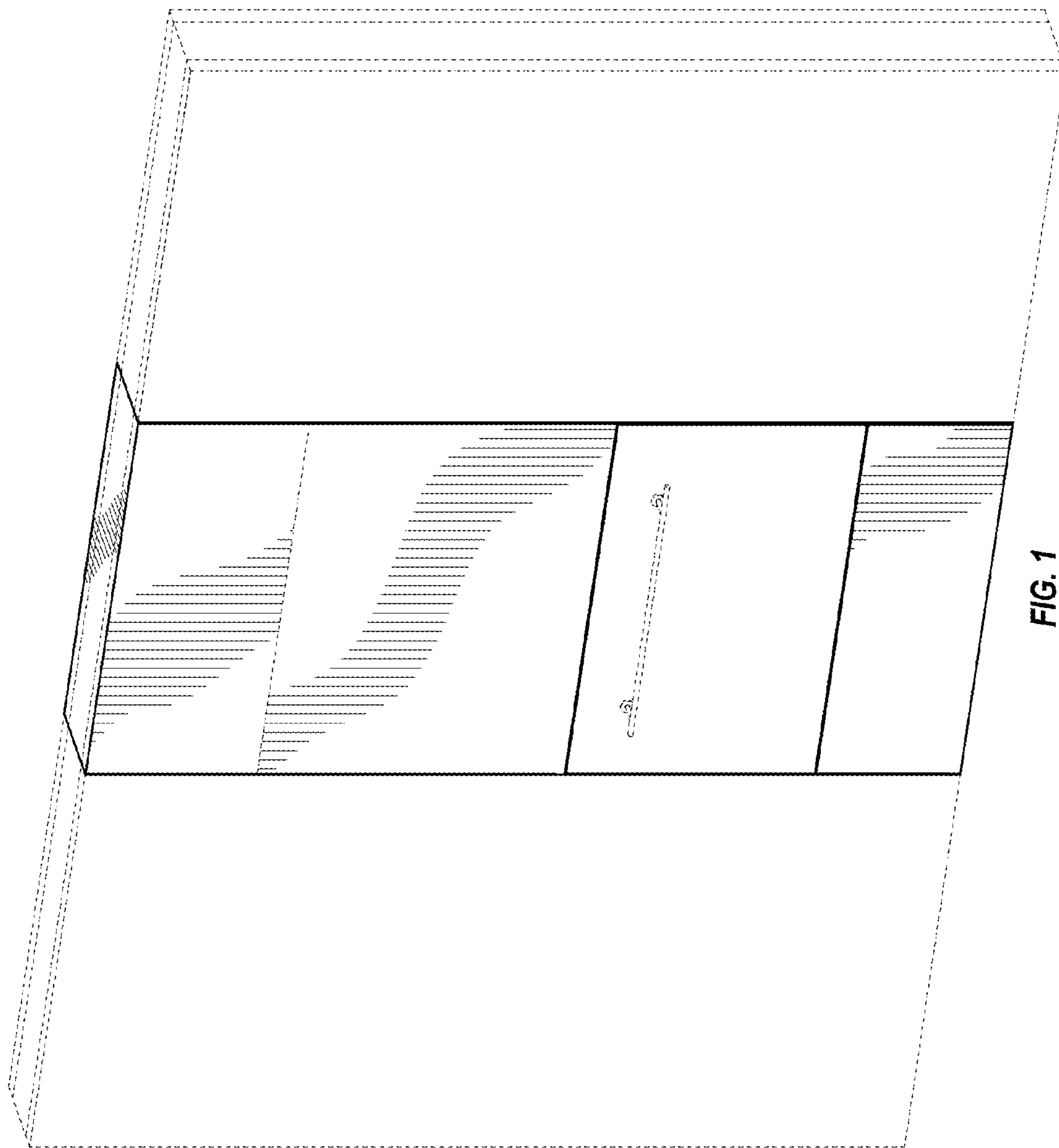


FIG. 1

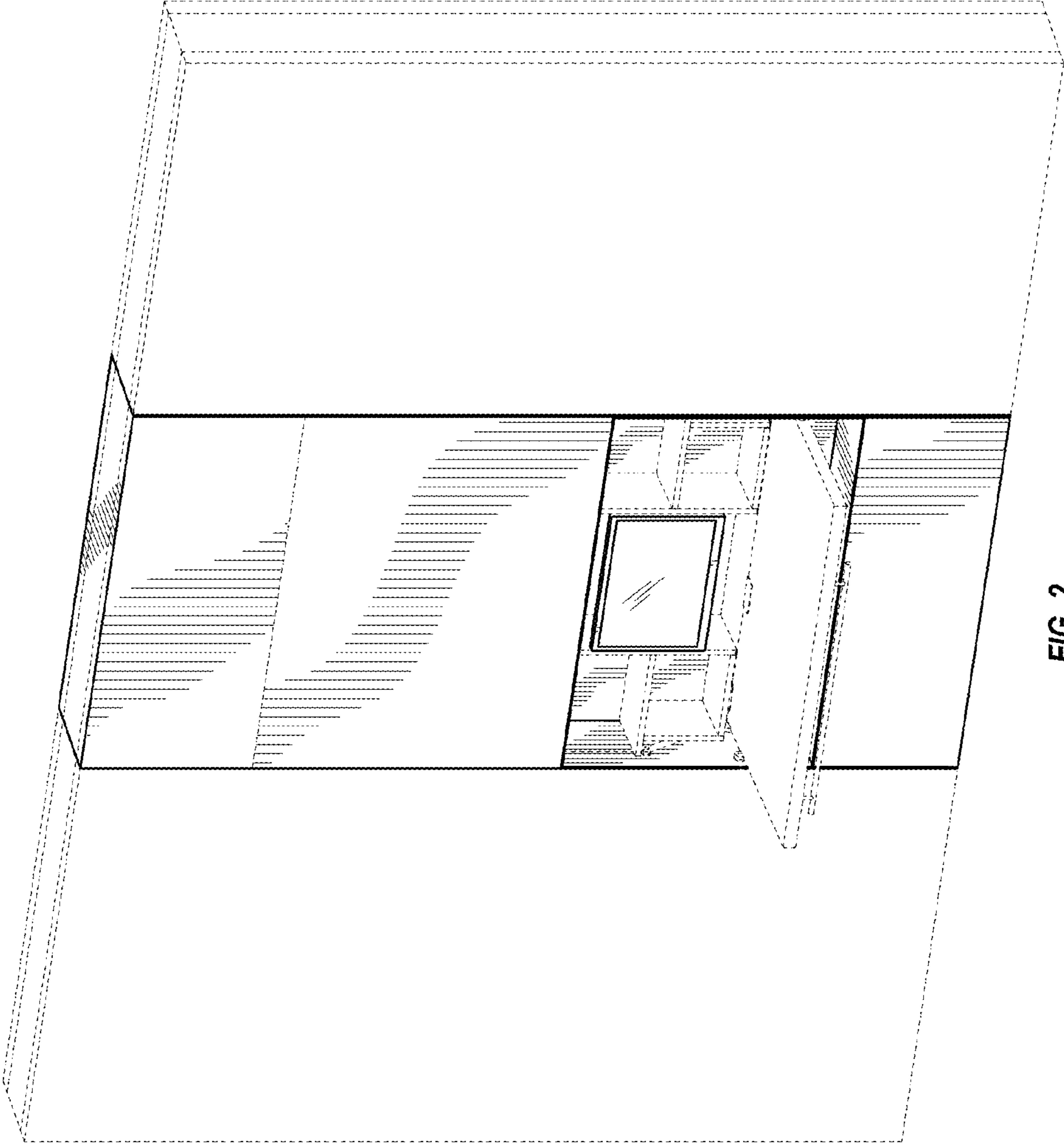


FIG. 2

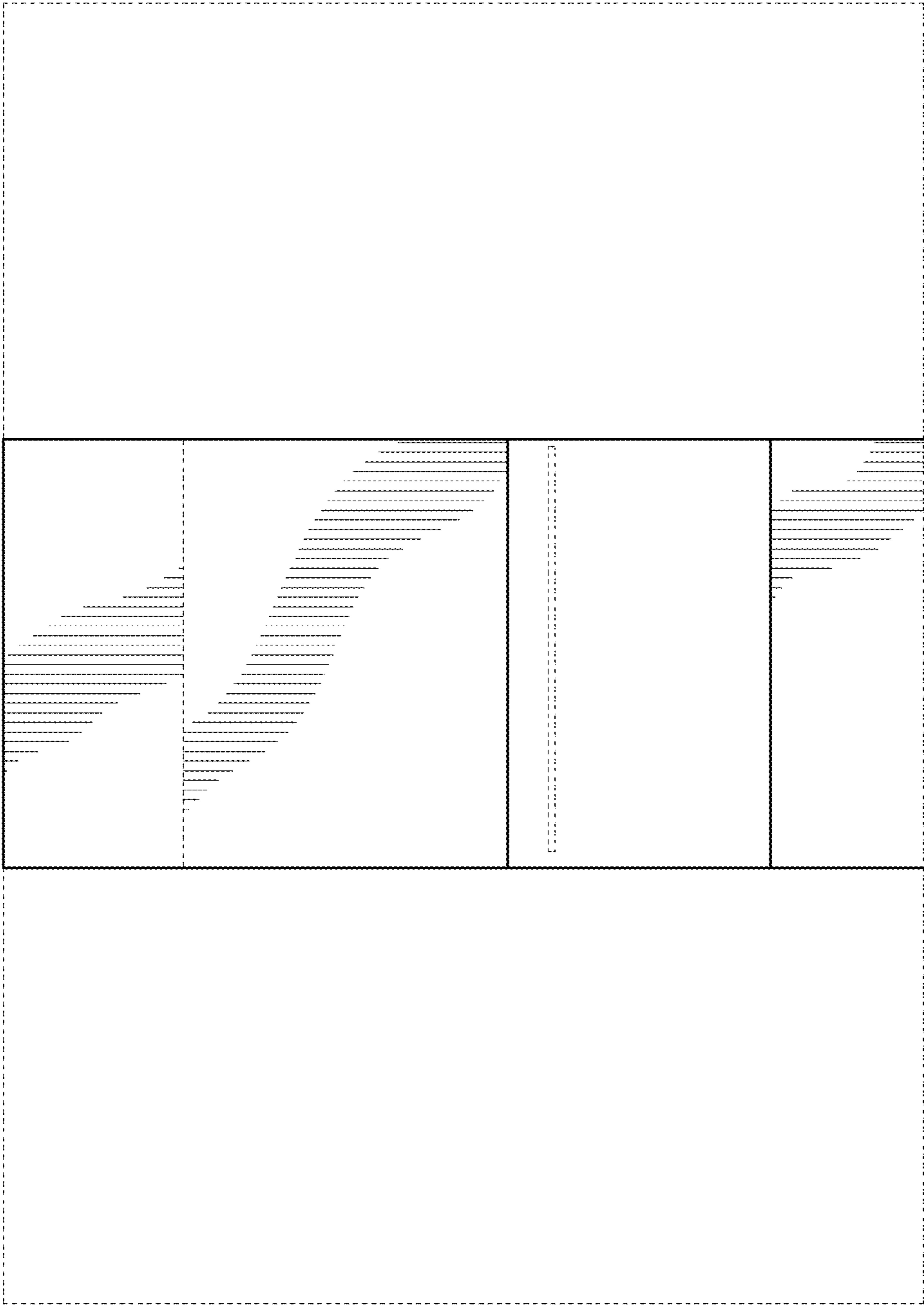


FIG. 3

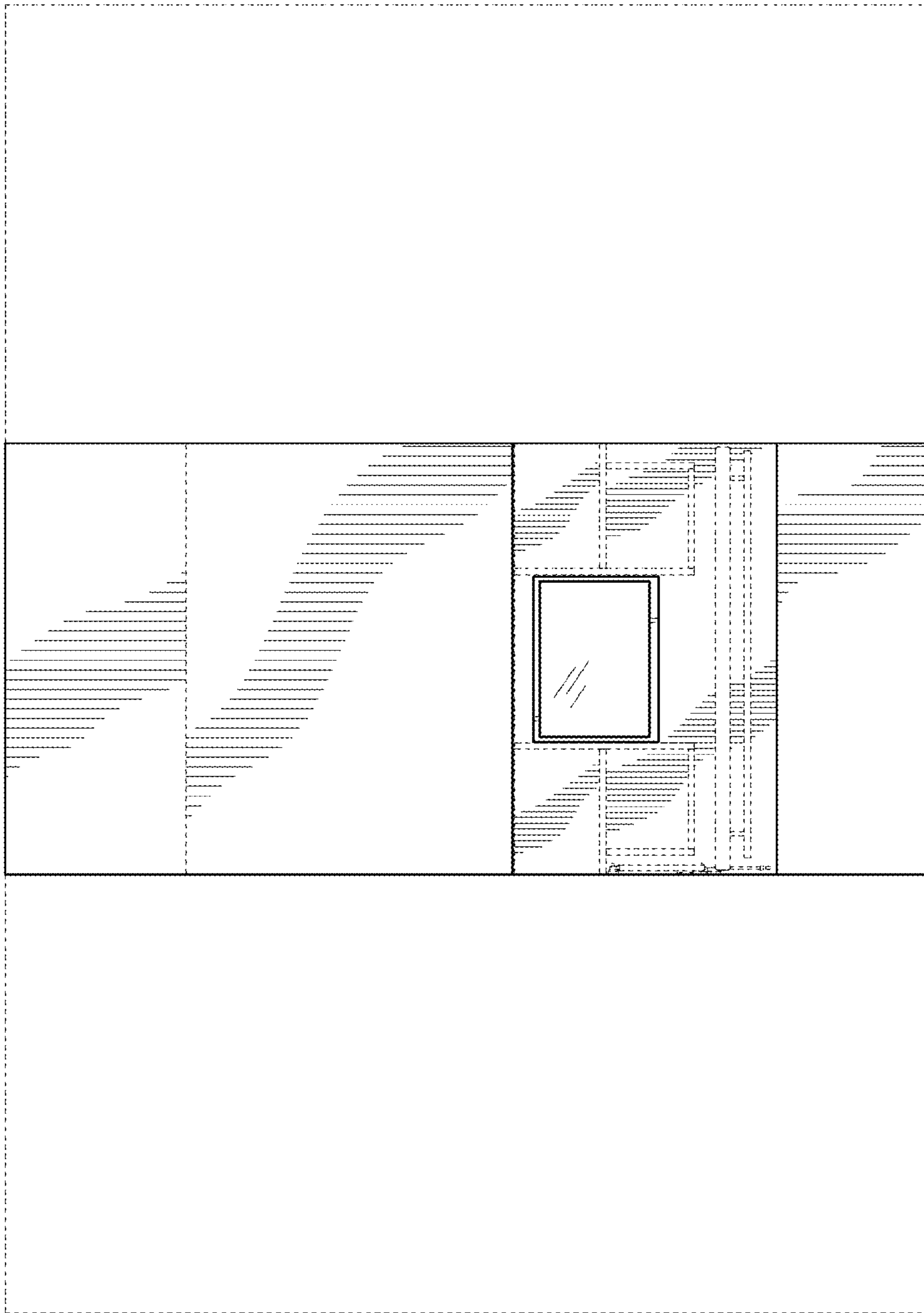


FIG. 4

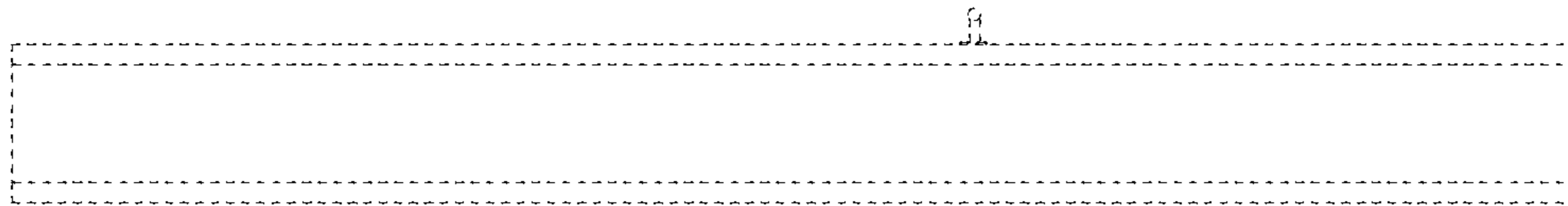


FIG. 6

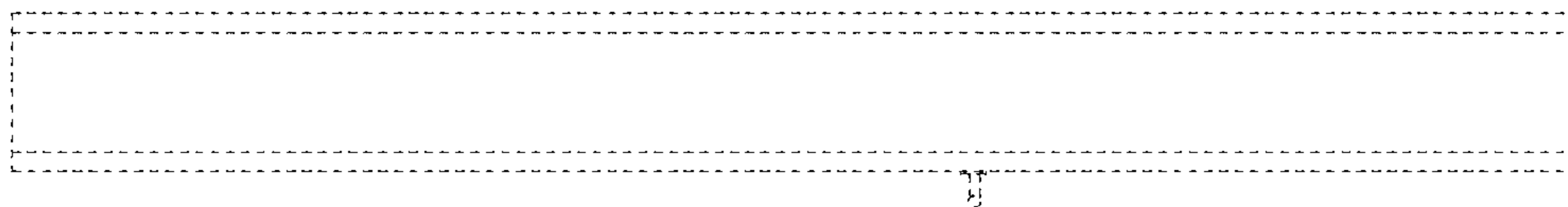


FIG. 5

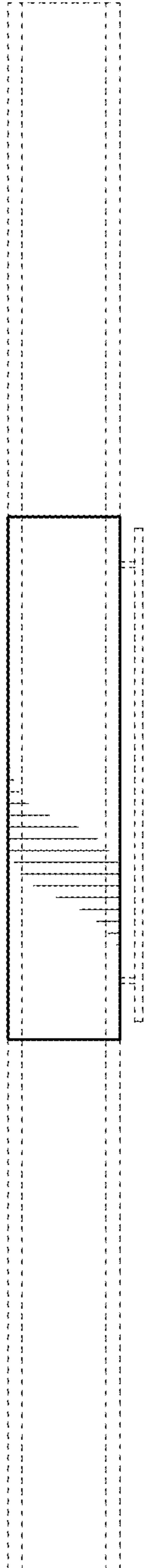


FIG. 7

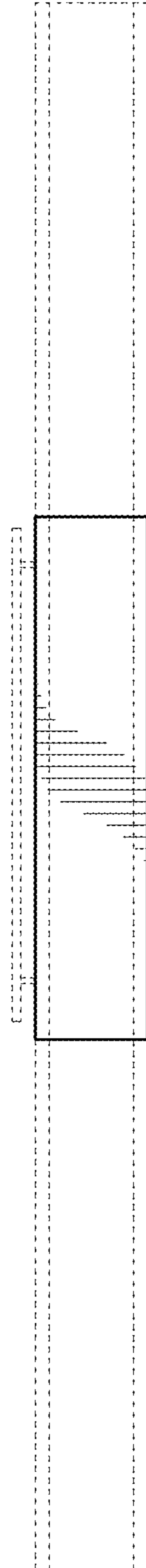


FIG. 8