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(54) **IMAGE SENSOR**

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(51) **LOC (10) Cl.** **14-02**

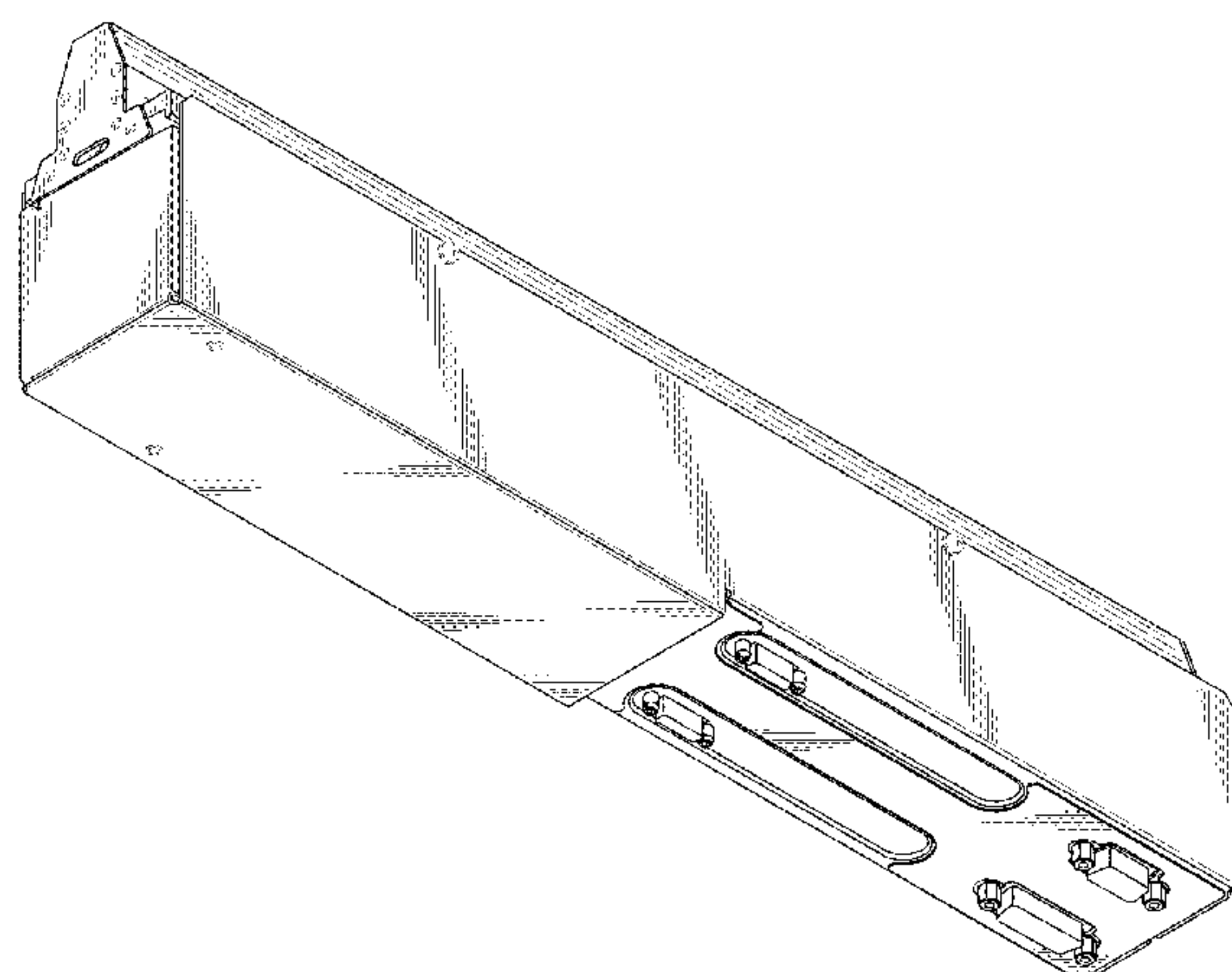
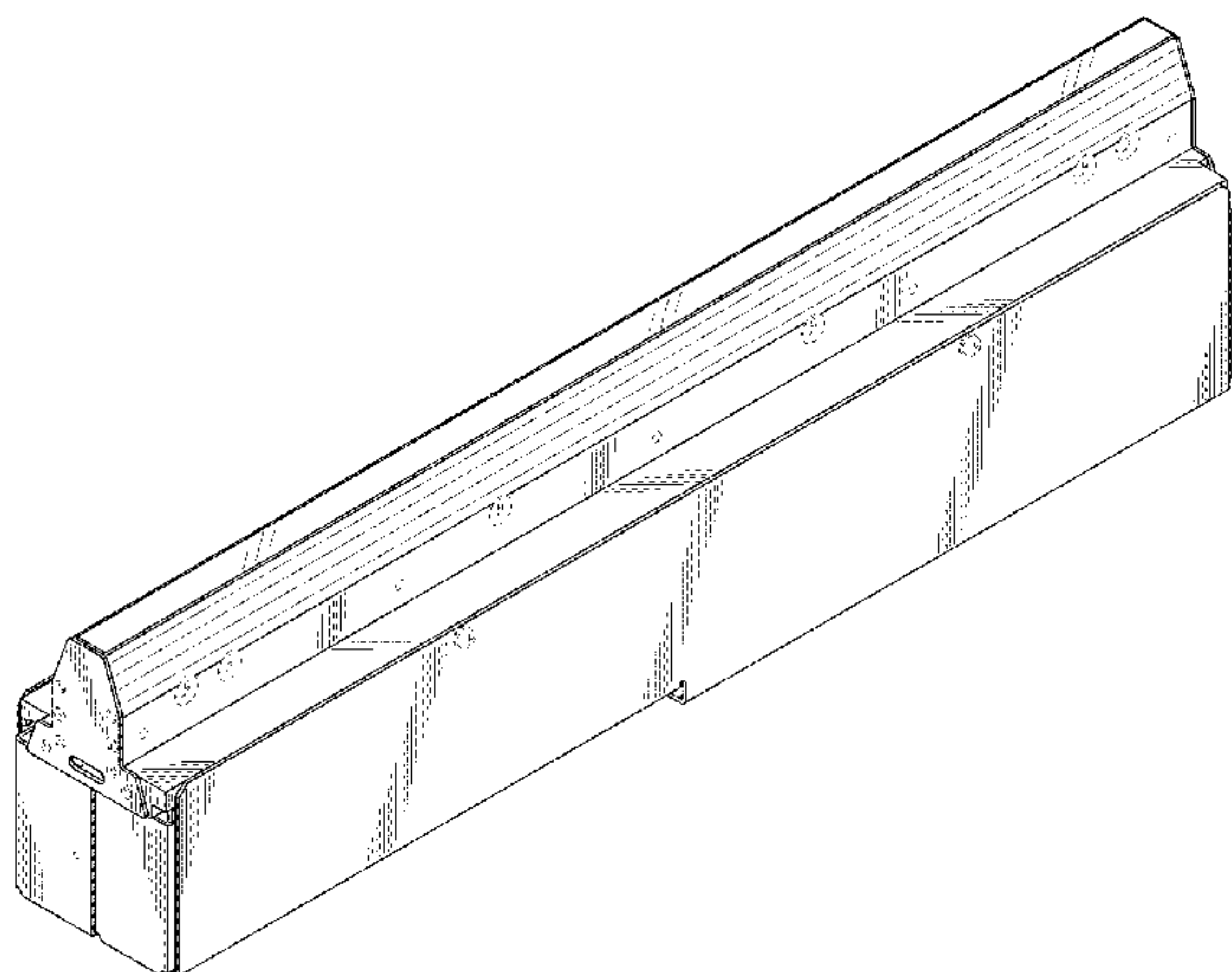
(52) **U.S. Cl.**

USPC **D14/420**; D14/421; D14/453

(58) **Field of Classification Search**

USPC D14/421–425, 420; D18/55, 49, 46, 40, D18/36–39, 41, 44, 45, 47, 48, 50–54, D18/56; 235/462, 455, 470, 462.43, 482, 235/483, 462.21, 472.01, 435, 439, 440, 235/446, 454, 461, 462.32, 462.35, 235/462.41, 462.42, 463; 358/474, 486, 358/488, 496, 497, 498, 452, 449, 451, 358/453, 1.13; 318/685, 696; 355/81, 355/75; 399/405, 367, 379, 380; 382/217; 715/209, 222, 226, 274; 400/613, 613.1–613.4, 690.1–690.4, 400/691–694; D26/1–3, 24, 56, 72, D26/74–86, 88–91, 25; D13/180, 182; 362/150, 217.01–217.09, 217.1, 217.12, 362/217.13, 260, 364, 365, 366, 404, 555, 362/576, 800, 14, 148, 296.01

CPC .. D07G 1/0036; D07G 1/0045; D07G 1/0063; D07G 1/0072; D07G 1/009; G08B 13/1427; G08B 13/1472; G08B 13/1481; G08B 13/194; G08B 13/246; G08B 13/2462; G08B 13/2465; A47F 9/04; A47F 9/046; A47F 9/047; A47F 9/048; A47F 10/02; A47F 2010/005; A47F 2010/025; G06K 7/10693; G06K 7/10712; G06K 7/10722; G06K 7/10792; G06K 7/10801; G06K 7/10811; G06K 7/10831; G06K 7/10851; G06K 7/10861; G06K 7/1096; G06K 7/1097; G06K 7/1098; G06K 7/12; G06K 7/14; G06K 7/1408; G06K 7/1413; G06K 7/1417; G06K 7/1421; G06K 7/1426; G06K 7/143; G06K 7/1434; G06K 7/1439; G06K 7/1443; G06K 7/1447; G06K 7/1452; G06K 7/1456; G06K 7/146; G06K 7/1465; G06K 7/1469; G06K 7/1473; G06K 7/1478; G06K 7/1482; G06K 7/1486; G06K 2007/10485; G06K 7/10544–7/10762; G06K 7/10821–7/10871; G06K 7/1404–7/1495; G06K 2207/00; G06K 2207/1011–2207/1018; G01G 19/4144; G01G 21/22; G01G 21/28; G01G 23/32; G01G 23/34; G01G 23/35; G01G 23/375; G01G 23/38; G01G 23/44; G07G 1/0063; G07G 1/0072; G07G 3/006; G02B 5/09; G02B 6/00; G06T 2211/00; H04N 1/0313–1/032; H04N 1/02815–1/02895; H04N 1/0249; H04N 1/02481; H04N 1/00; H04N 1/12; H04N 1/00013; H04N 1/00015; H04N 1/00018; H04N 1/00026; H04N 1/00557; H04N 1/00564; H04N 1/00567; H04N 1/0057; H04N 1/00572; H04N 1/00586; H04N 1/00588; H04N 1/00591; H04N 1/00594; H04N 1/00596; H04N 1/00604; H04N 1/00519; H04N 1/00559; H04N 1/00551; H04N 1/00278; H04N 1/1013; H04N 1/10; H04N 5/2251–5/2256; H04N 2201/02456; H04N 2201/02458; H04N 2201/02462; H04N 2201/03468; H04N 2201/02485; H04N



2201/0249; H04N 2201/02481; H04N
2201/0456; H04N 2201/0446; H04N
2201/00; H04N 2201/0094; H01L
27/14618–27/14643; H01L 27/14649;
H01L 27/14652; H01L
27/14658–27/1467; H01L
31/0232–31/02327; H01L 31/1055; H01L
31/14; G03G 15/0142; G03G 15/605;
G03G 15/602; F21S 2/00; F21S 4/00;
F21S 4/003; F21S 4/005; F21S 4/006;
F21S 4/007; F21S 4/008; F21S 6/00;
F21S 8/00; F21S 8/024; F21S 8/026;
F21S 8/031; F21S 8/033; F21S
8/035–8/037; F21S 8/04; F21S 8/043;
F21S 8/063

See application file for complete search history.

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2009/0294630	A1 *	12/2009	Saito	H04N 1/0318 250/208.1	2015/0156372	A1 *	6/2015	Aramaki	H04N 1/02835 358/447
2009/0310190	A1 *	12/2009	Ikeda	H04N 1/02815 358/474	2015/0271354	A1 *	9/2015	Imoto	G02B 27/0966 362/308
2010/0046045	A1 *	2/2010	Nagao	H04N 1/00846 358/474	2015/0316706	A1 *	11/2015	Fujiuchi	H04N 1/02835 358/482
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2012/0206750	A1 *	8/2012	Murray	H04N 1/00525 358/1.13	* cited by examiner				
2012/0318961	A1 *	12/2012	Sawada	H04N 1/0318 250/208.1	<i>Primary Examiner</i> — Susan Moon Lee				
2013/0038913	A1 *	2/2013	Shimoda	G07D 7/121 358/474	(74) <i>Attorney, Agent, or Firm</i> — Studebaker & Brackett PC				
2013/0038914	A1 *	2/2013	Yoshida	H04N 1/0285 358/474	(57) CLAIM				
2013/0181311	A1 *	7/2013	Sugiyama	H04N 1/193 257/432	The ornamental design for an image sensor, as shown and described.				
2013/0222918	A1 *	8/2013	Nemoto	G03G 15/04054 359/622	DESCRIPTION				
2013/0250373	A1 *	9/2013	Takeuchi	H04N 1/0285 358/474	FIG. 1 is a front perspective view of the front, left, and top sides of an image sensor showing our new design;				
2013/0265617	A1 *	10/2013	Murakami	G02B 6/0001 358/448	FIG. 2 is a rear perspective view of the rear, right, and bottom sides thereof;				
2013/0265618	A1 *	10/2013	Kobayashi	H04N 1/00557 358/475	FIG. 3 is a front view thereof;				
2013/0314756	A1 *	11/2013	Amemiya	F21V 13/04 358/497	FIG. 4 is a rear view thereof;				
2014/0014819	A1 *	1/2014	Yoshida	G02B 6/0096 250/208.1	FIG. 5 is a left side view thereof;				
2014/0111835	A1 *	4/2014	Ozawa	H04N 1/028 358/475	FIG. 6 is a right side view thereof;				
2014/0168724	A1 *	6/2014	Kobayashi	H04N 1/02835 358/475	FIG. 7 is a top plan view thereof; and,				
2014/0169656	A1 *	6/2014	Shimoda	G02B 6/0001 382/135	FIG. 8 is a bottom view thereof.				
2014/0198355	A1 *	7/2014	Miwa	H04N 1/0318 358/482	Broken lines and unshaded portions contained within broken lines depict exemplary elements of the image sensor that are shown for illustrative purposes only and that form no part of the claimed design.				
2014/0320937	A1 *	10/2014	Horiguchi	H04N 1/02835 358/475	1 Claim, 8 Drawing Sheets				

FIG. 1

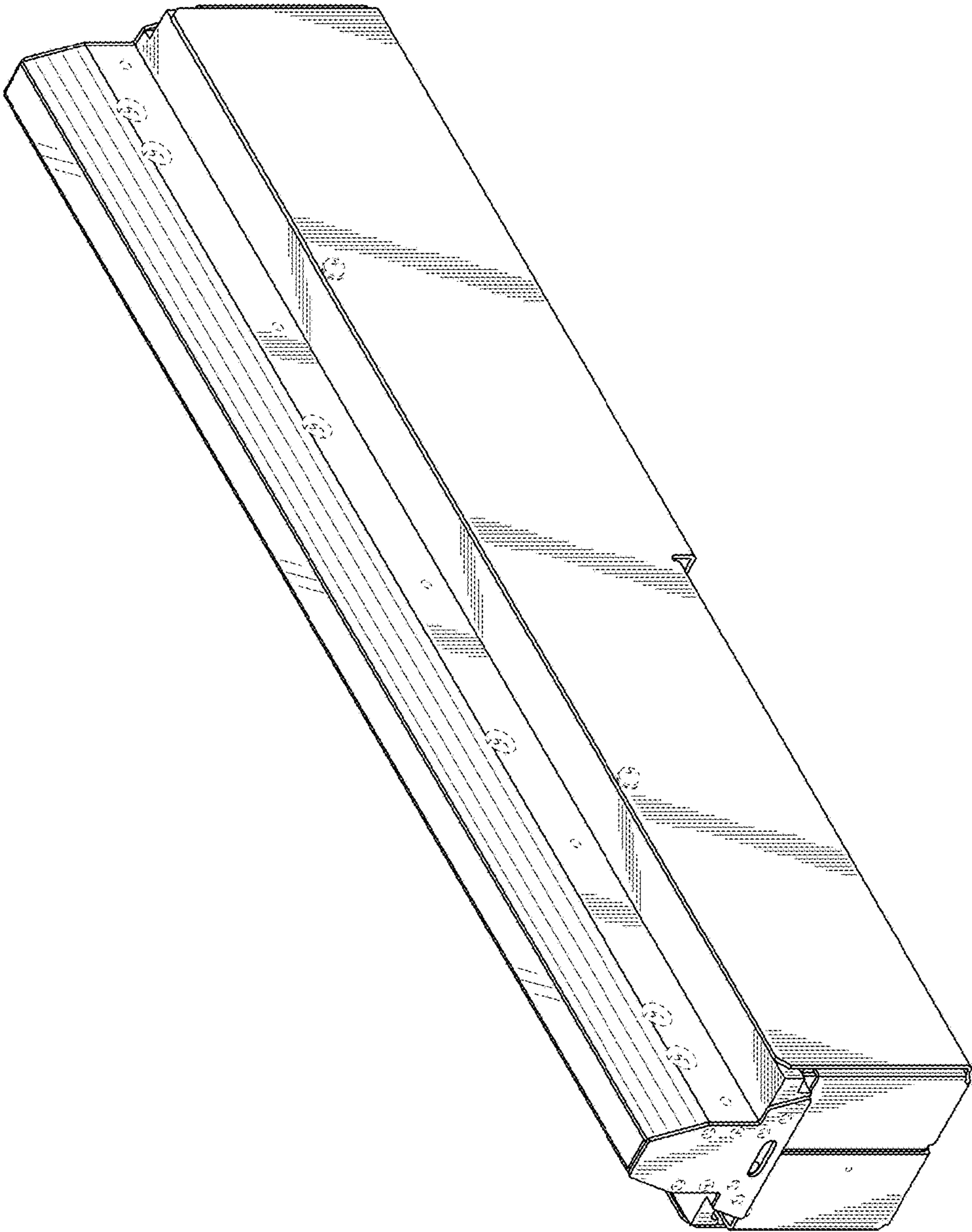


FIG. 2

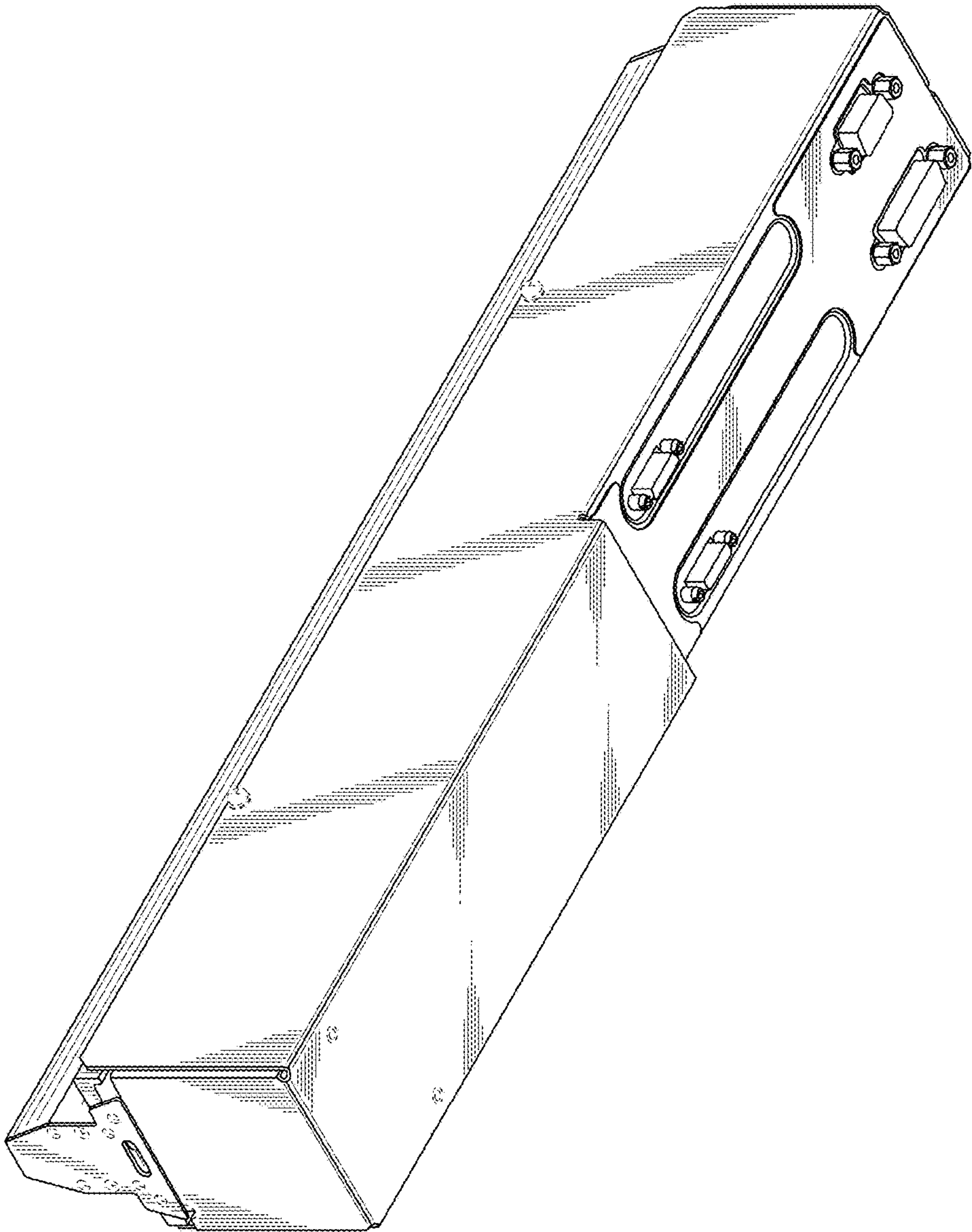


FIG. 3

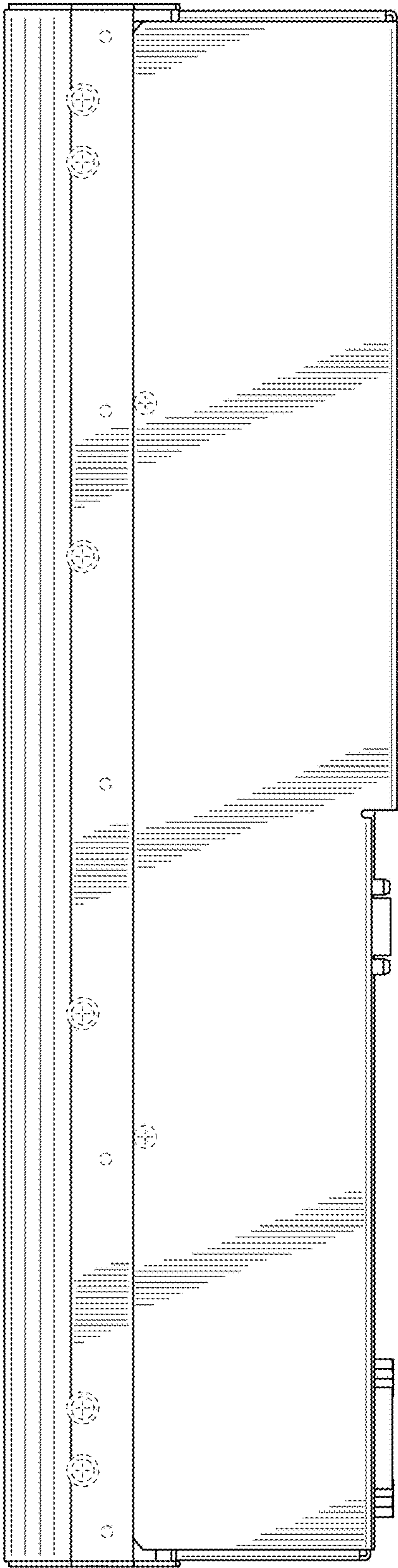


FIG. 4

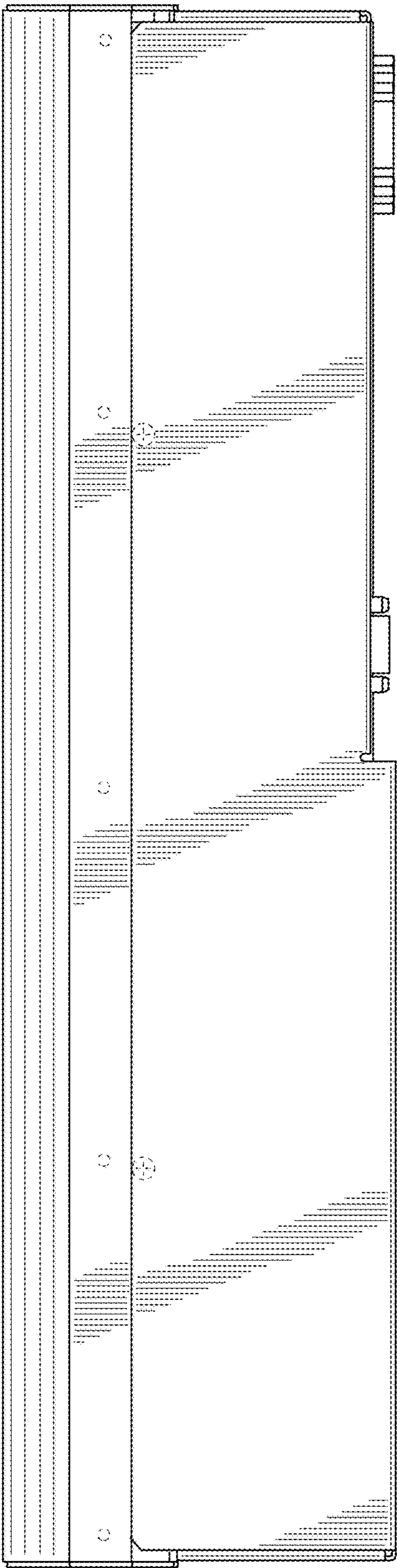


FIG. 5

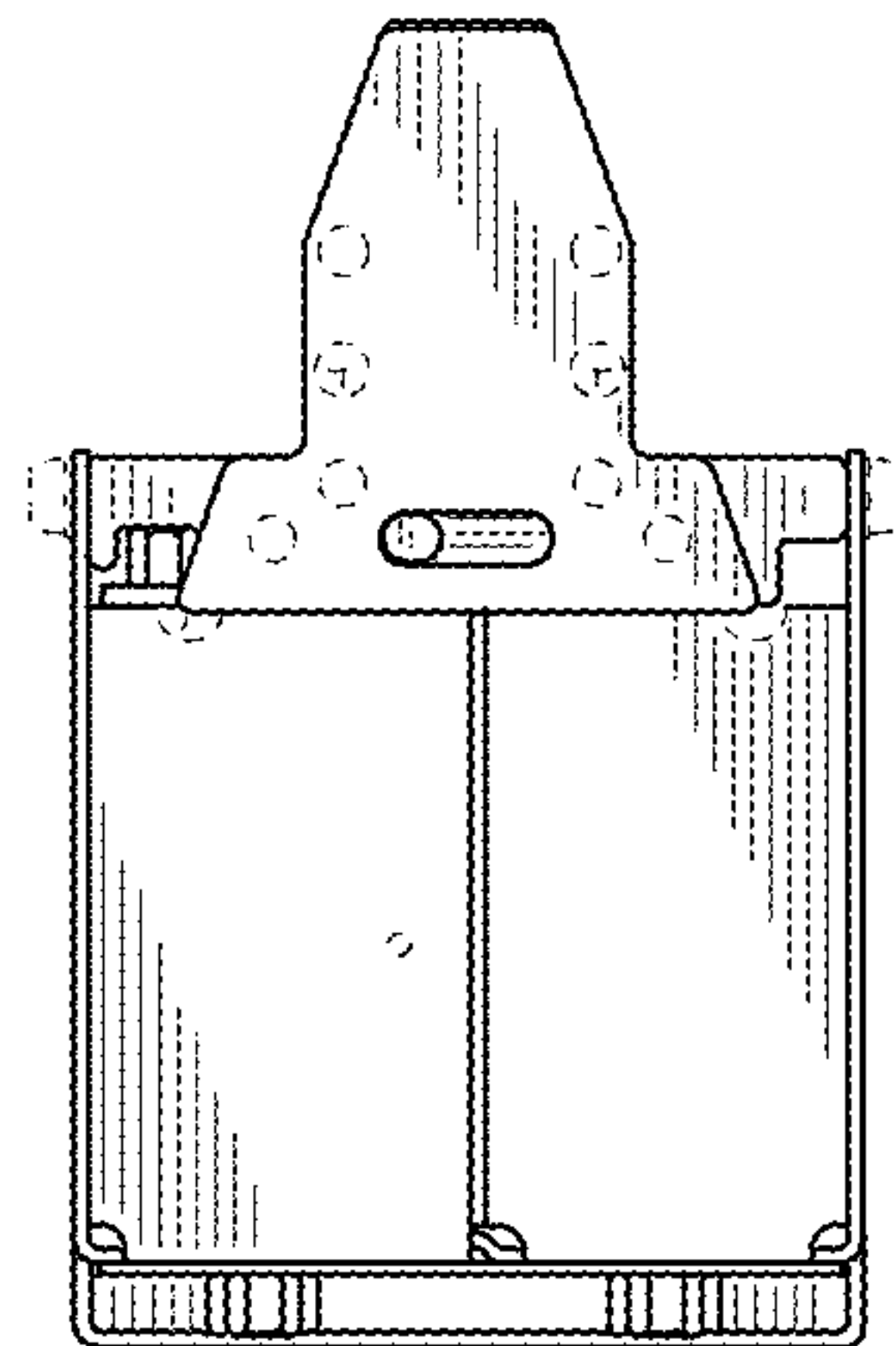


FIG. 6

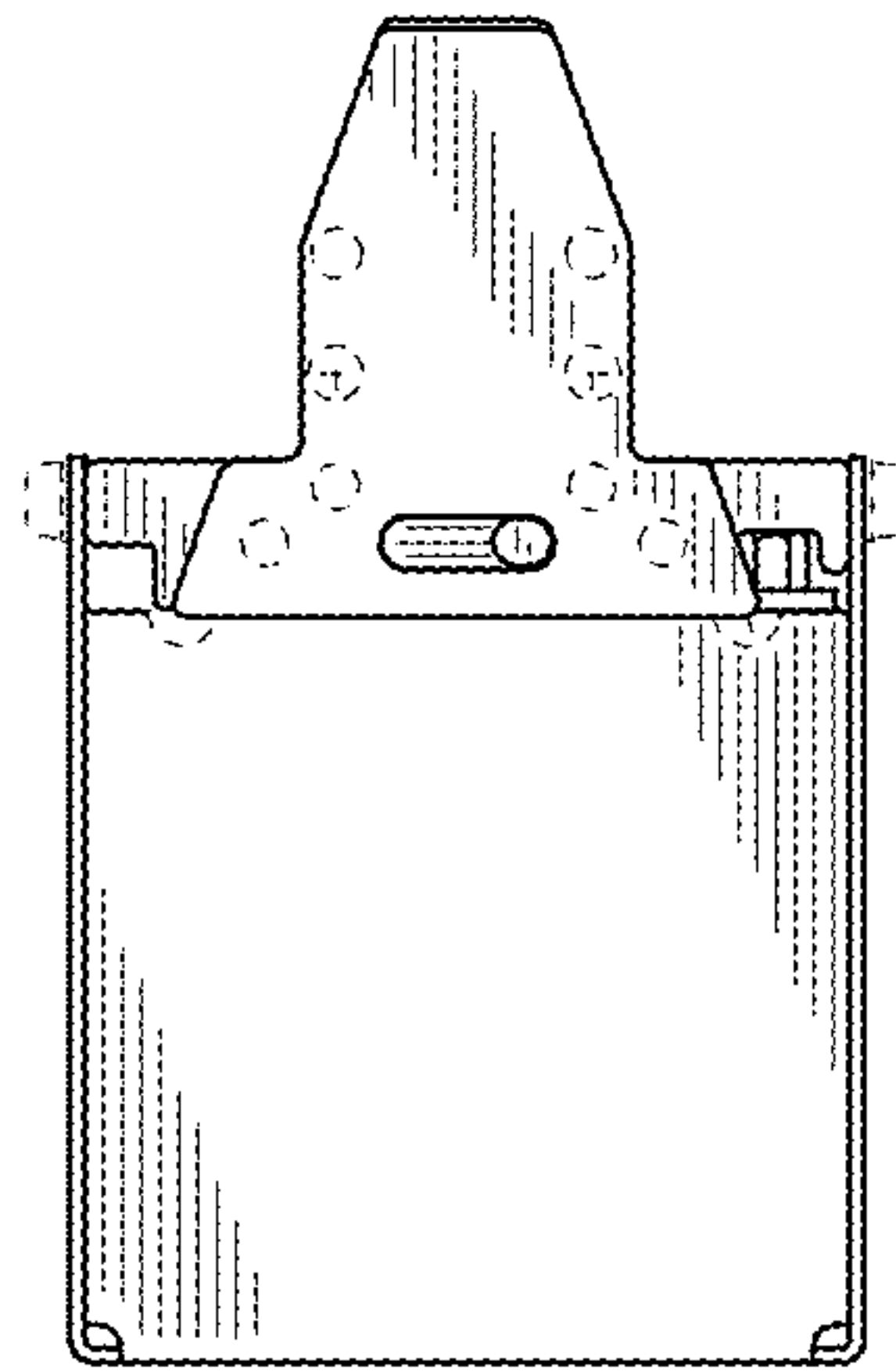


FIG. 7

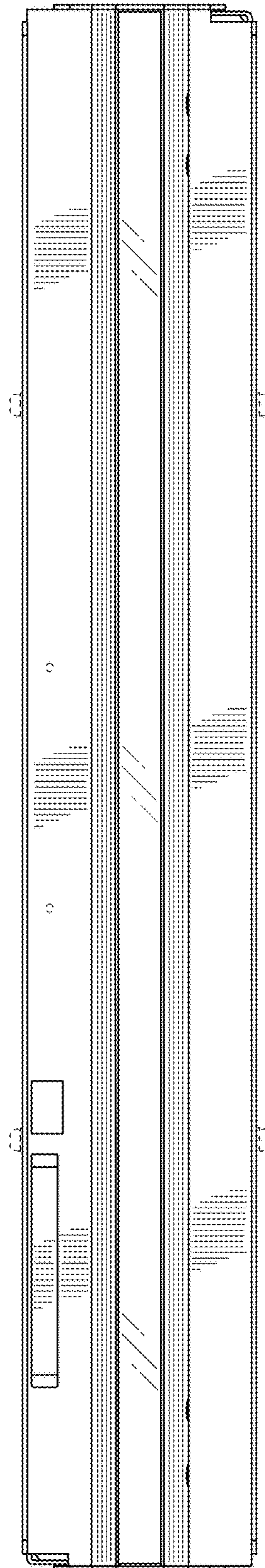


FIG. 8

