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(12) **United States Design Patent** (10) **Patent No.:** **US D809,149 S**
Tsuzuranuki et al. (45) **Date of Patent:** **** Jan. 30, 2018**

(54) **KNEE JOINT SUPPORTER**

(56) **References Cited**

(71) Applicants: **KOWA COMPANY, LTD.**, Aichi (JP);
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DMCHAIN COOPERATIVE,
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U.S. PATENT DOCUMENTS

D334,827 S *	4/1993	Brown	D24/190
5,267,951 A *	12/1993	Ishii	A61F 13/061 602/14
D360,263 S *	7/1995	Holland	.....	D24/190
D374,547 S *	10/1996	McDonald	.....	D24/190
D389,582 S *	1/1998	Bodenschatz	.....	D24/190
D404,819 S *	1/1999	Rodgers	.....	D24/190
D405,180 S *	2/1999	Reina	.....	D24/190
D439,342 S *	3/2001	Seip, Jr.	.....	D24/190
D503,806 S *	4/2005	Williams	.....	D24/190
D619,267 S *	7/2010	Beckwith	D24/190
D626,243 S *	10/2010	Sagnip	D24/190
D634,437 S *	3/2011	Gramza	D24/190

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(Continued)

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

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(21) Appl. No.: **35/501,089**

(57) **CLAIM**

(22) Filed: **Dec. 16, 2015**

The ornamental design for a knee joint supporter, as shown
and described.

(80) **Hague Agreement Data**

DESCRIPTION

Int. Filing Date: **Dec. 16, 2015**

Int. Reg. No.: **DM/090016**

Int. Reg. Date: **Dec. 16, 2015**

Int. Reg. Pub. Date: **Jun. 17, 2016**

1. Knee joint supporter
1.1 is a front view;
1.2 is a back view;
1.3 is a left view;
1.4 is a right view;
1.5 is a top view;
1.6 is a bottom view;
1.7 is a perspective view;
1.8 is a front view shown in an environment; and
1.9 is another front view shown in an environment.
In the reproductions, the stippling feature indicates a contrast in appearance. In **1.1** through **1.7** the broken lines are for the purpose of illustrating a stitching feature and form a part of the claimed design. In **1.8** through **1.9** the broken lines are for the purpose of illustrating environment only and form no part of the claimed design.

(30) **Foreign Application Priority Data**

Jun. 26, 2015 (JP) 2015-014230

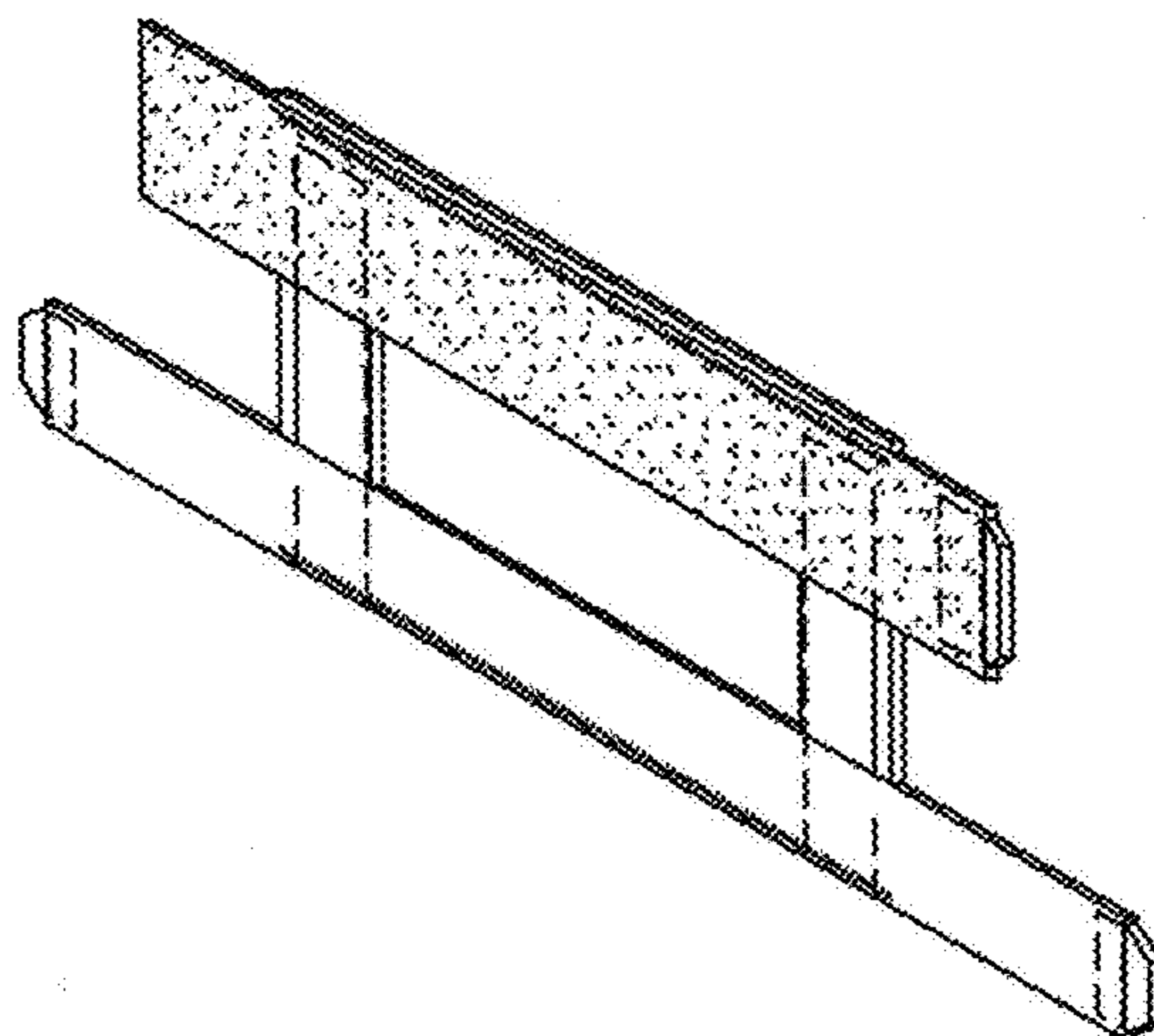
(51) **LOC (11) Cl.** **24-00**

(52) **U.S. Cl.**
USPC **D24/190**

(58) **Field of Classification Search**
USPC D24/190, 231, 189; D14/411; 602/19,
602/14

See application file for complete search history.

1 Claim, 9 Drawing Sheets



(56)

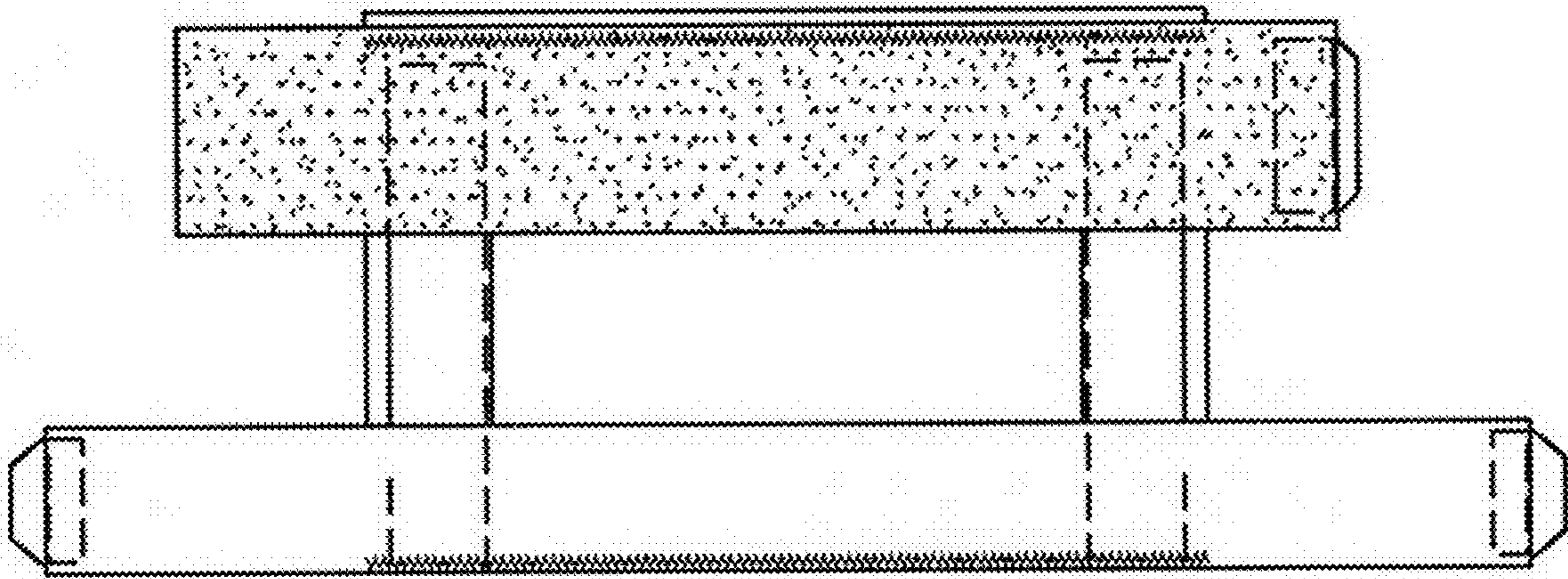
References Cited

U.S. PATENT DOCUMENTS

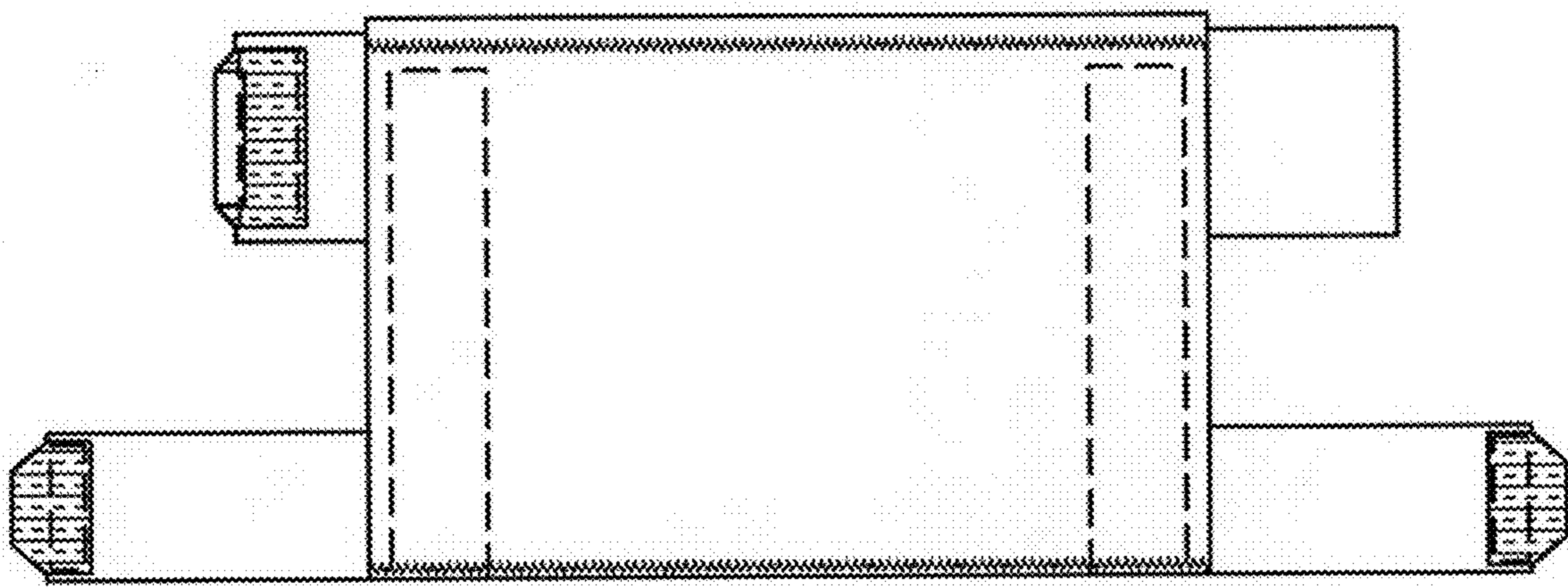
D658,300	S *	4/2012	Rhijn	D24/190
D685,484	S *	7/2013	Brambilla	D24/190
D687,154	S *	7/2013	Chen	D24/190
D710,018	S *	7/2014	Forbes	D24/190
D716,956	S *	11/2014	Ortega	D24/190
D733,895	S *	7/2015	Wratten	D24/190
D746,997	S *	1/2016	Higgins	D24/190
D750,262	S *	2/2016	Kusmirek	D24/190
D750,790	S *	3/2016	Ortega	D24/190
D751,720	S *	3/2016	Williams	D24/190
D758,598	S *	6/2016	Forbes	D24/190
D769,451	S *	10/2016	MacMillan	D24/190
D779,075	S *	2/2017	Fried	D24/190
D787,518	S *	5/2017	Tudisco	D14/411
2013/0116609	A1 *	5/2013	Matsuo	A41D 13/0531 602/19
2014/0288474	A1 *	9/2014	Okada	A61F 5/024 602/19
2017/0065449	A1 *	3/2017	Tsuchiya	A61F 5/0118
2017/0071773	A1 *	3/2017	Tsuchiya	A61F 5/0106
2017/0079847	A1 *	3/2017	Tsuchiya	A61F 13/065
2017/0135842	A1 *	5/2017	Tsuchiya	A61F 5/028

* cited by examiner

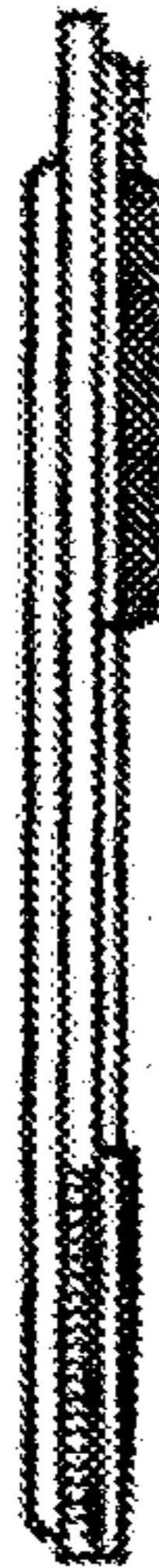
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1.2



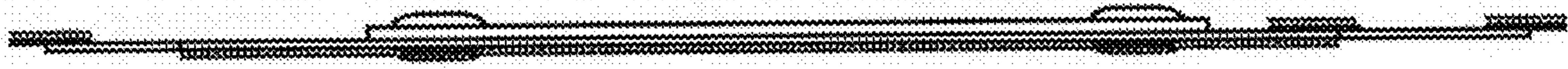
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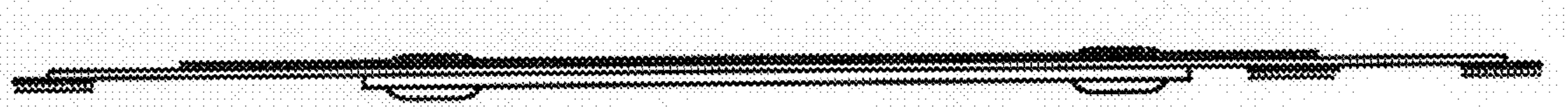
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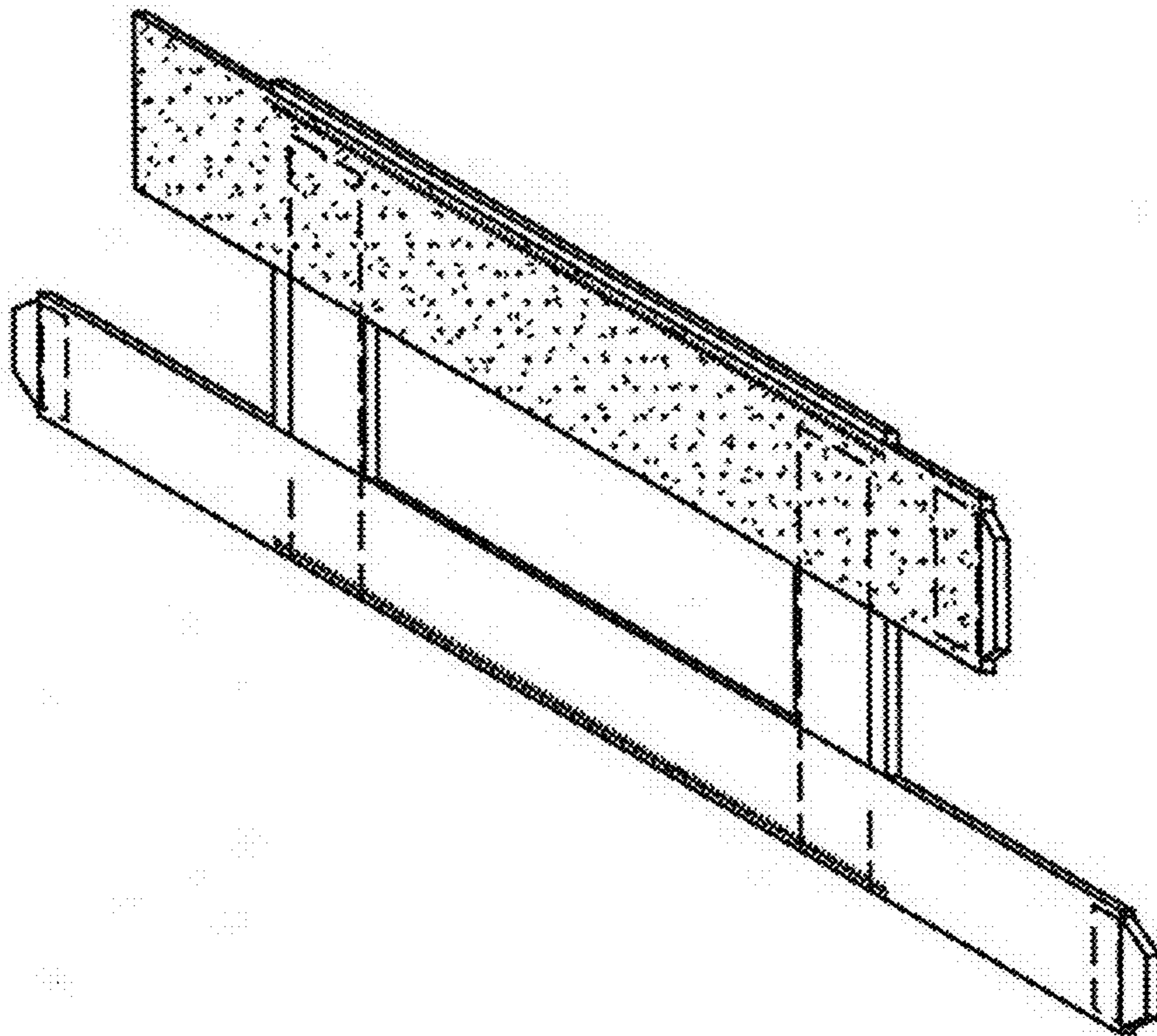
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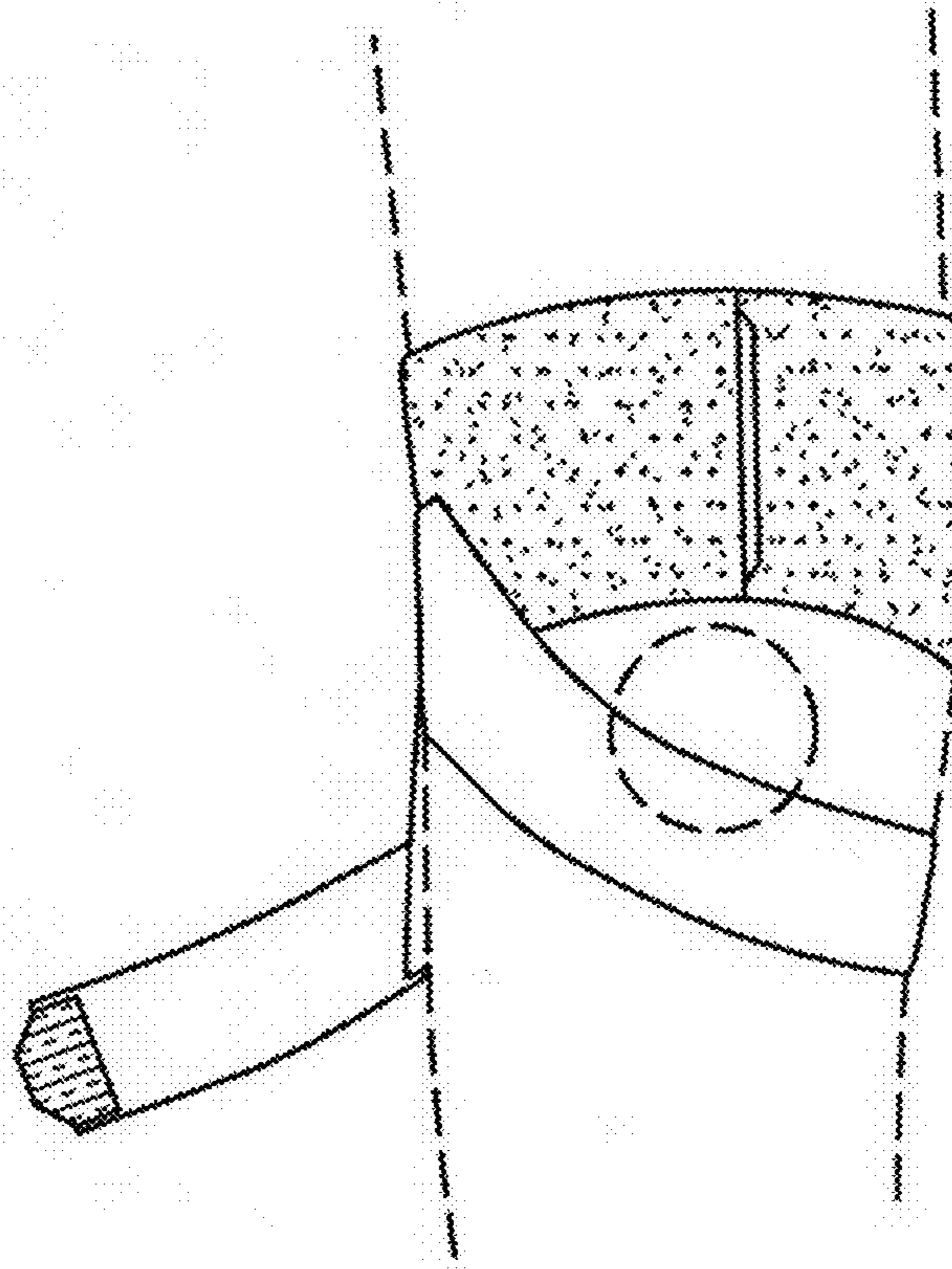
1.6



1.7



1.8



1.9

