



US00D490087S

(12) **United States Design Patent** (10) **Patent No.:** **US D490,087 S**
Pitonyak et al. (45) **Date of Patent:** **** May 18, 2004**

(54) **FOLDING HIPPER ROLLER**

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(74) *Attorney, Agent, or Firm*—Stephen D. Carver

(73) Assignee: **Pitonyak Machinery Corporation**, Carlisle, AR (US)

(57) **CLAIM**

The ornamental design for a folding hipper roller, as shown and described.

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

DESCRIPTION

(21) Appl. No.: **29/188,625**

(22) Filed: **Aug. 22, 2003**

(51) **LOC (7) Cl.** **15-03**

(52) **U.S. Cl.** **D15/11**

(58) **Field of Search** D15/10–12, 27,
D15/28; 172/52, 58, 81, 110, 578, 321;
56/14.7

(56) **References Cited**

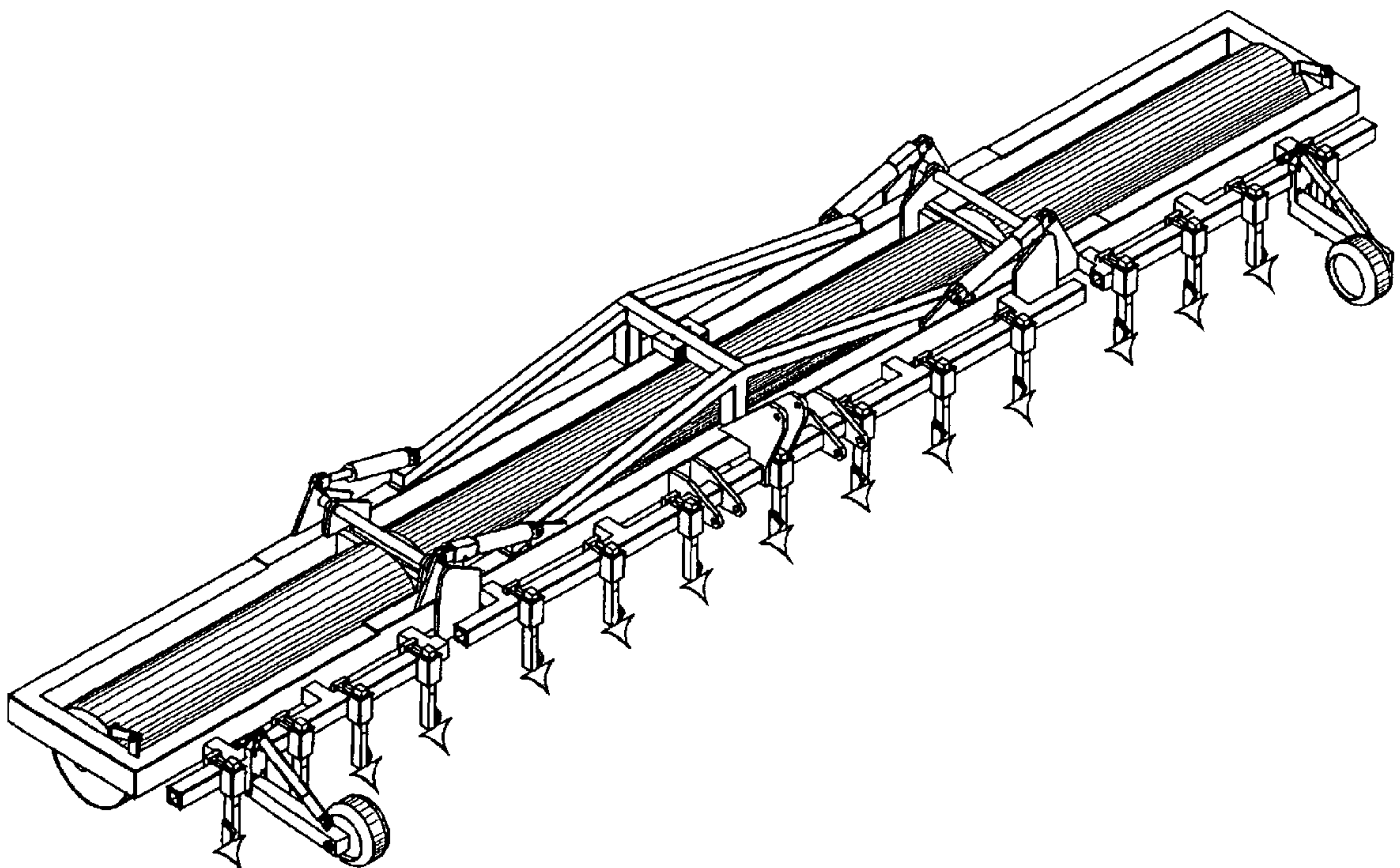
U.S. PATENT DOCUMENTS

2,539,632	A	*	1/1951	Miller		172/578
4,396,068	A	*	8/1983	Handy		172/44
4,669,945	A		6/1987	Pollard		
4,846,621	A		7/1989	Warsaw		
5,340,265	A		8/1994	Grieshop		
5,516,253	A		5/1996	Linscheid		
5,538,388	A		7/1996	Bergkamp		
D410,011	S	*	5/1999	Royer		D15/11
6,017,182	A		1/2000	Grieshop		
6,206,177	B1		3/2001	Broten		
6,422,376	B1		7/2002	Nichols		
6,497,546	B2		12/2002	Wood		

* cited by examiner

FIG. 1 is a view of frontal isometric view of our folding hipper roller shown deployed;
FIG. 2 is a bottom isometric view thereof;
FIG. 3 is a front elevational view thereof;
FIG. 4 is an enlarged end elevational view thereof;
FIG. 5 is an enlarged elevational view of the opposite end;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof;
FIG. 8 is a rear elevational view thereof;
FIG. 9 is a view of frontal isometric view of our folding hipper roller shown in a folded, transportation orientation;
FIG. 10 is a bottom isometric view of the folded hipper roller;
FIG. 11 is a front elevational view of the folded hipper roller;
FIG. 12 is an enlarged, end elevational view of the folded hipper roller;
FIG. 13 is an enlarged elevational view of the opposite end of the folded hipper roller;
FIG. 14 is a top view of the folded hipper roller;
FIG. 15 is a bottom plan view of the folded hipper roller;
and,
FIG. 16 is a rear elevational view of the folded hipper roller.

1 Claim, 15 Drawing Sheets



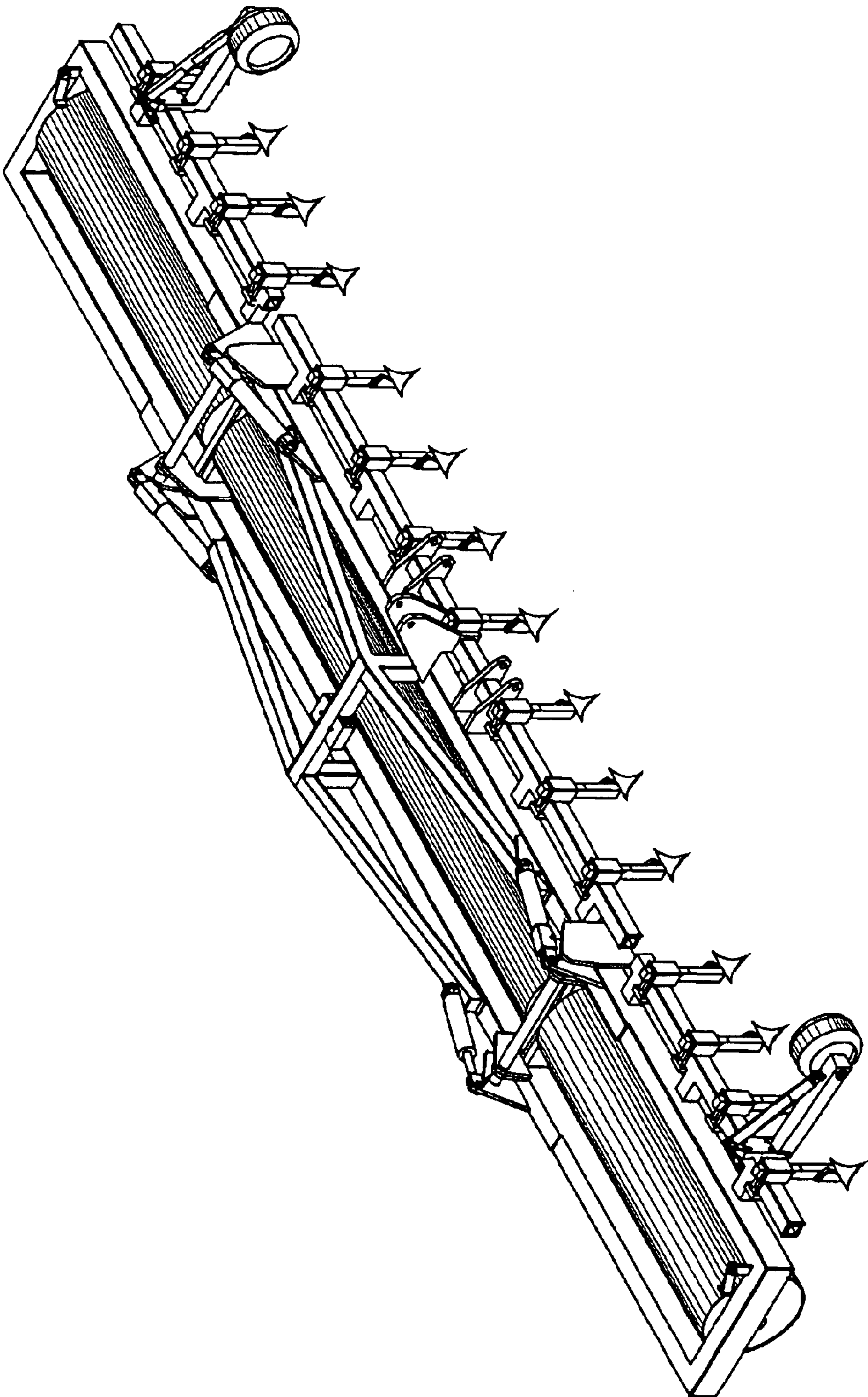


Fig. 1

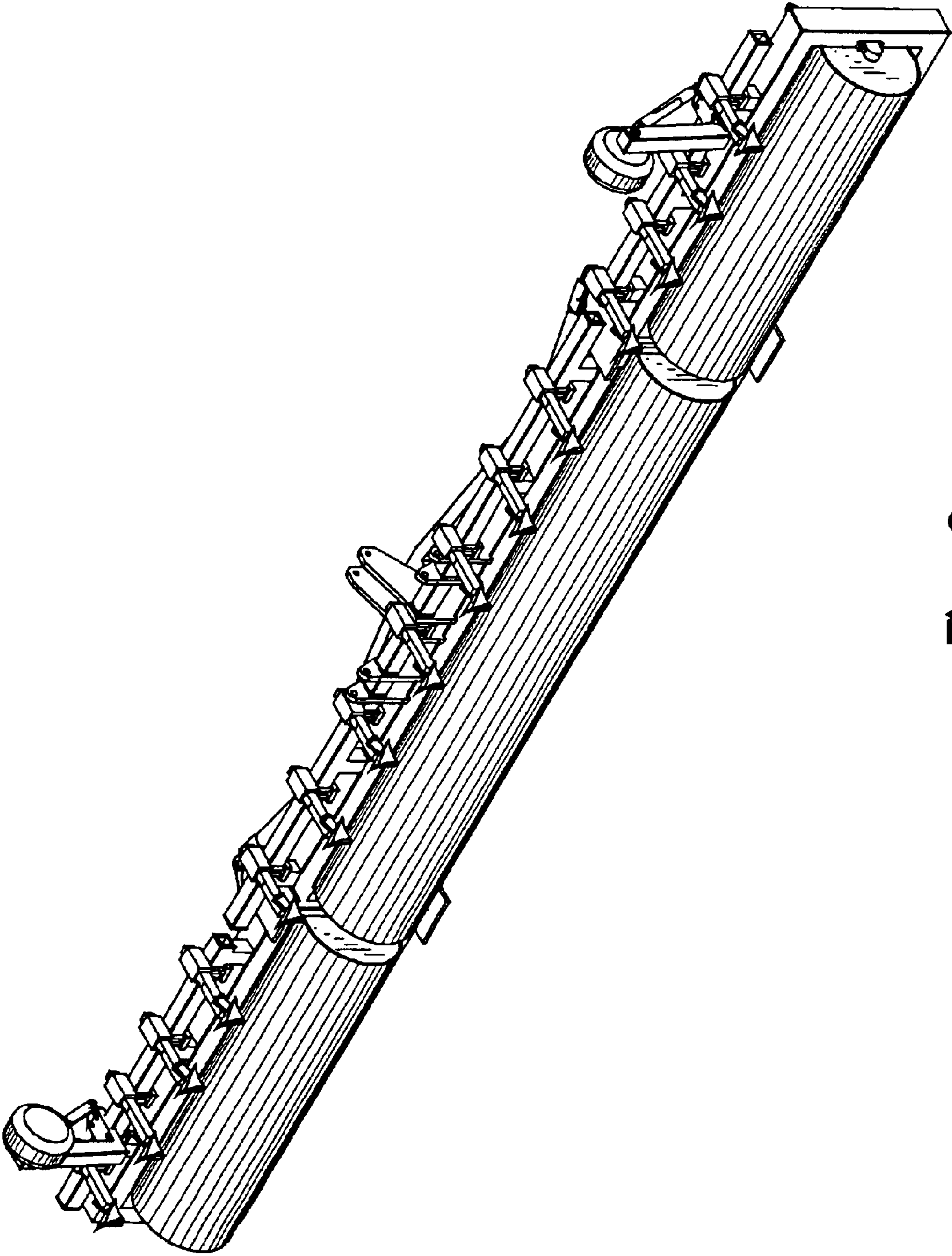


Fig. 2

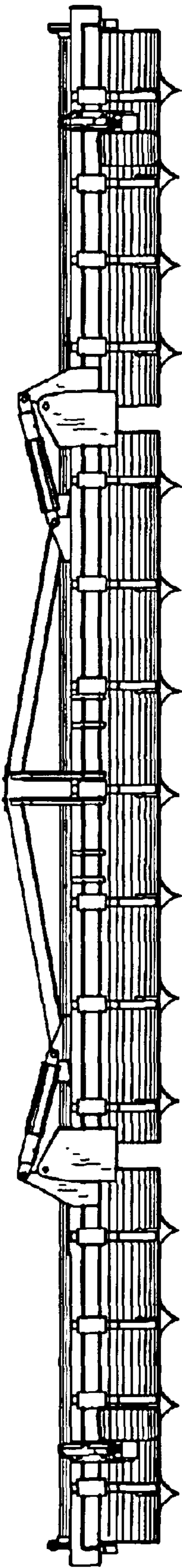


Fig. 3

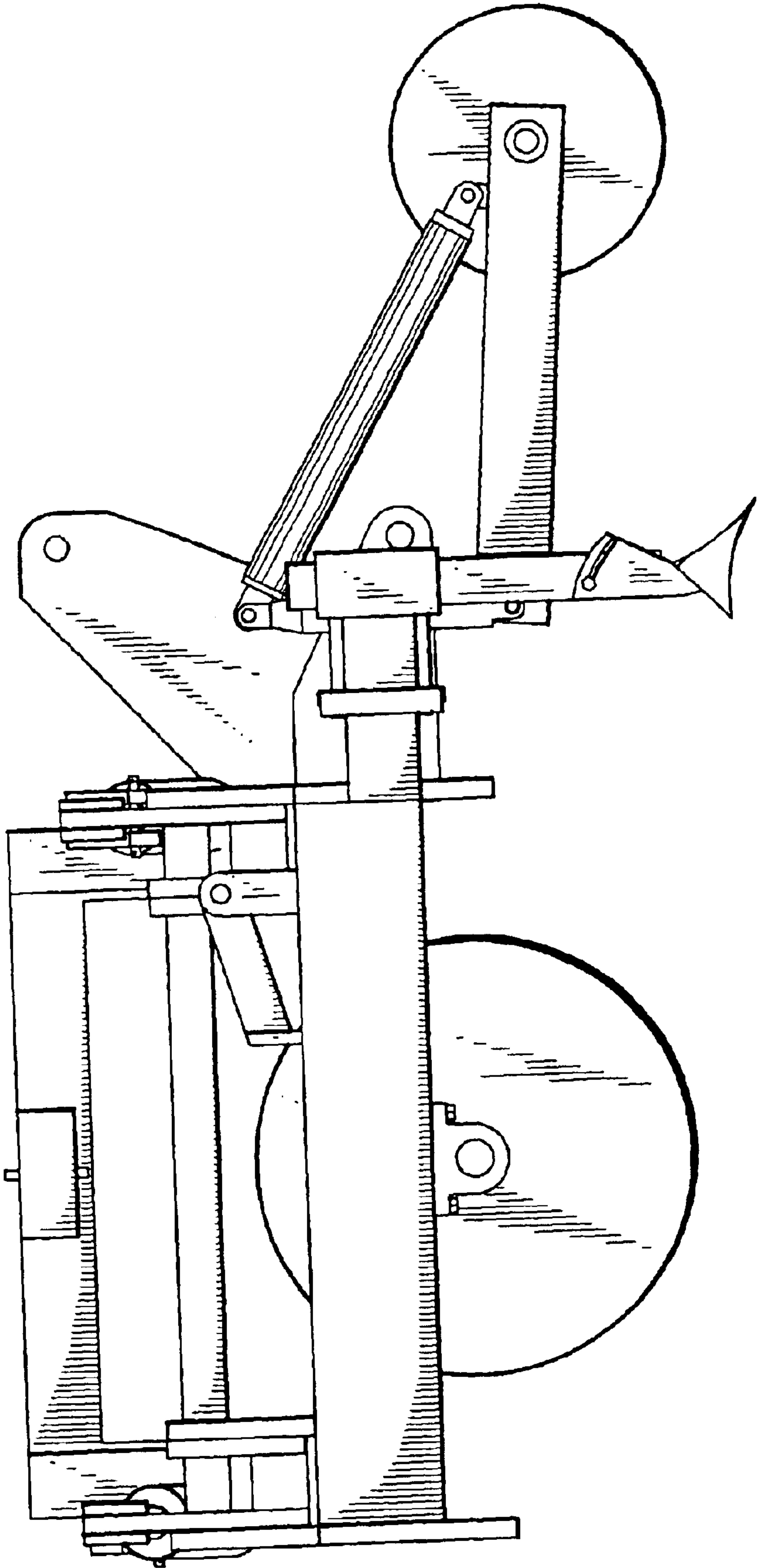


Fig. 4

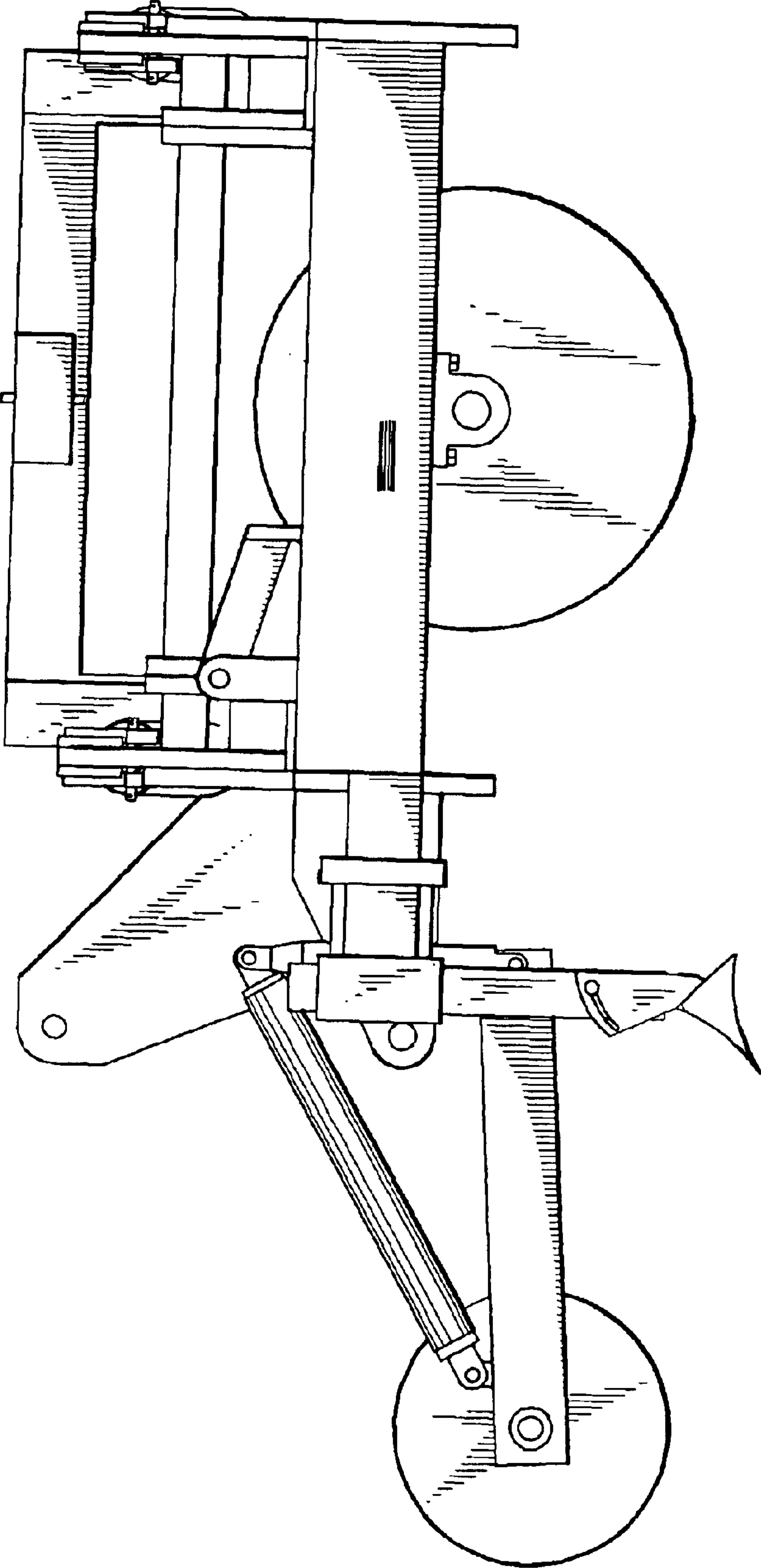


Fig. 5

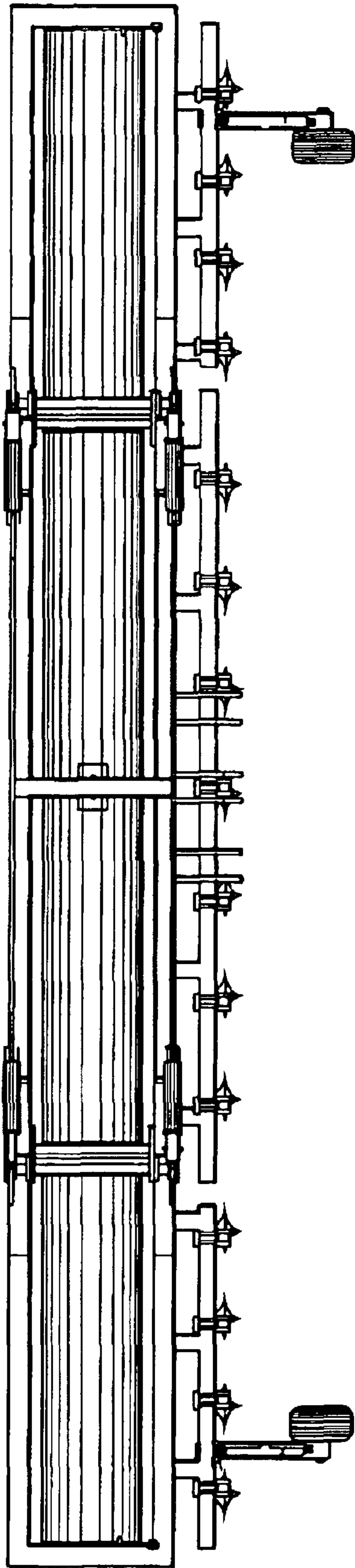


Fig. 6

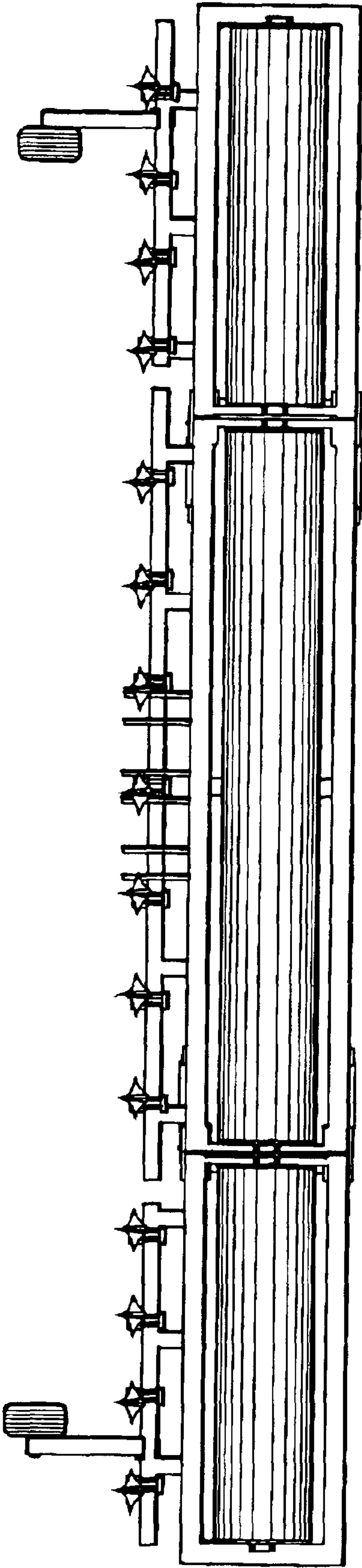


Fig. 7

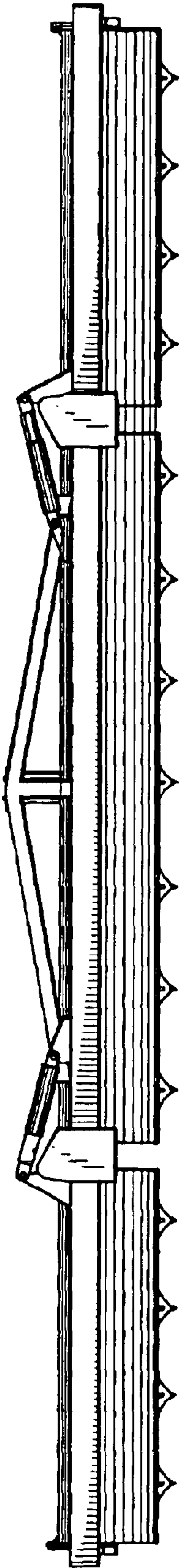


Fig. 8

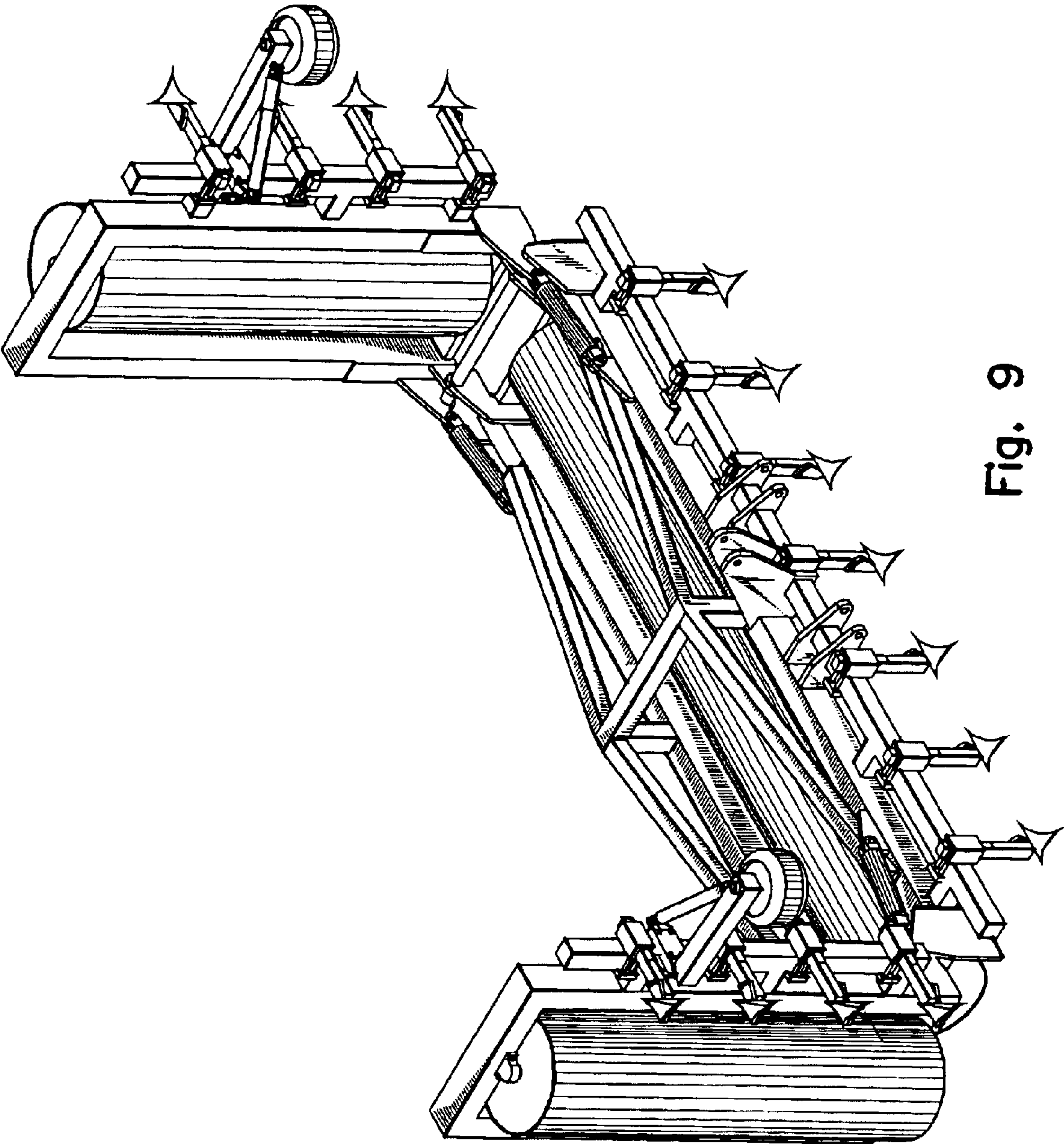


Fig. 9

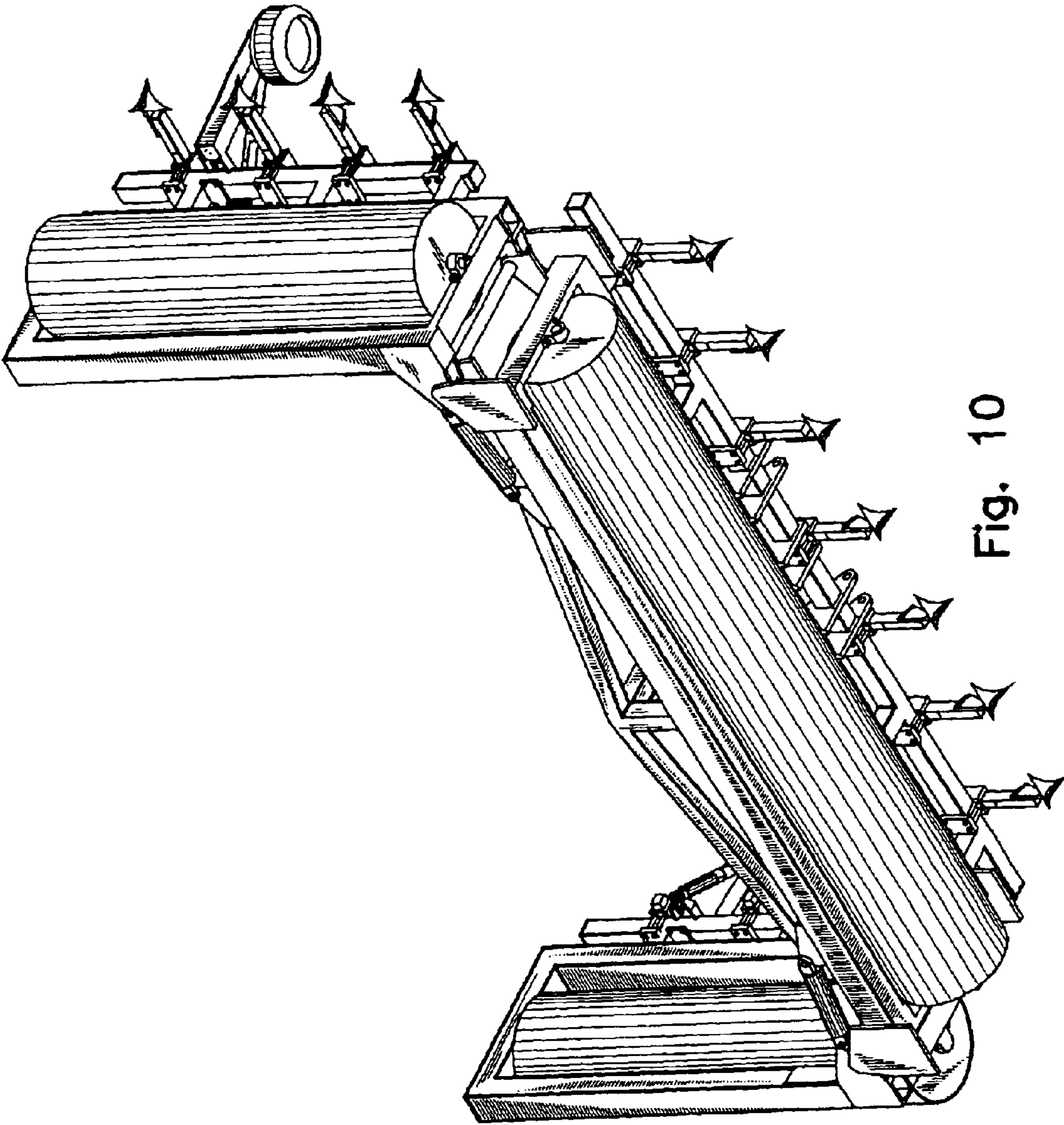


Fig. 10

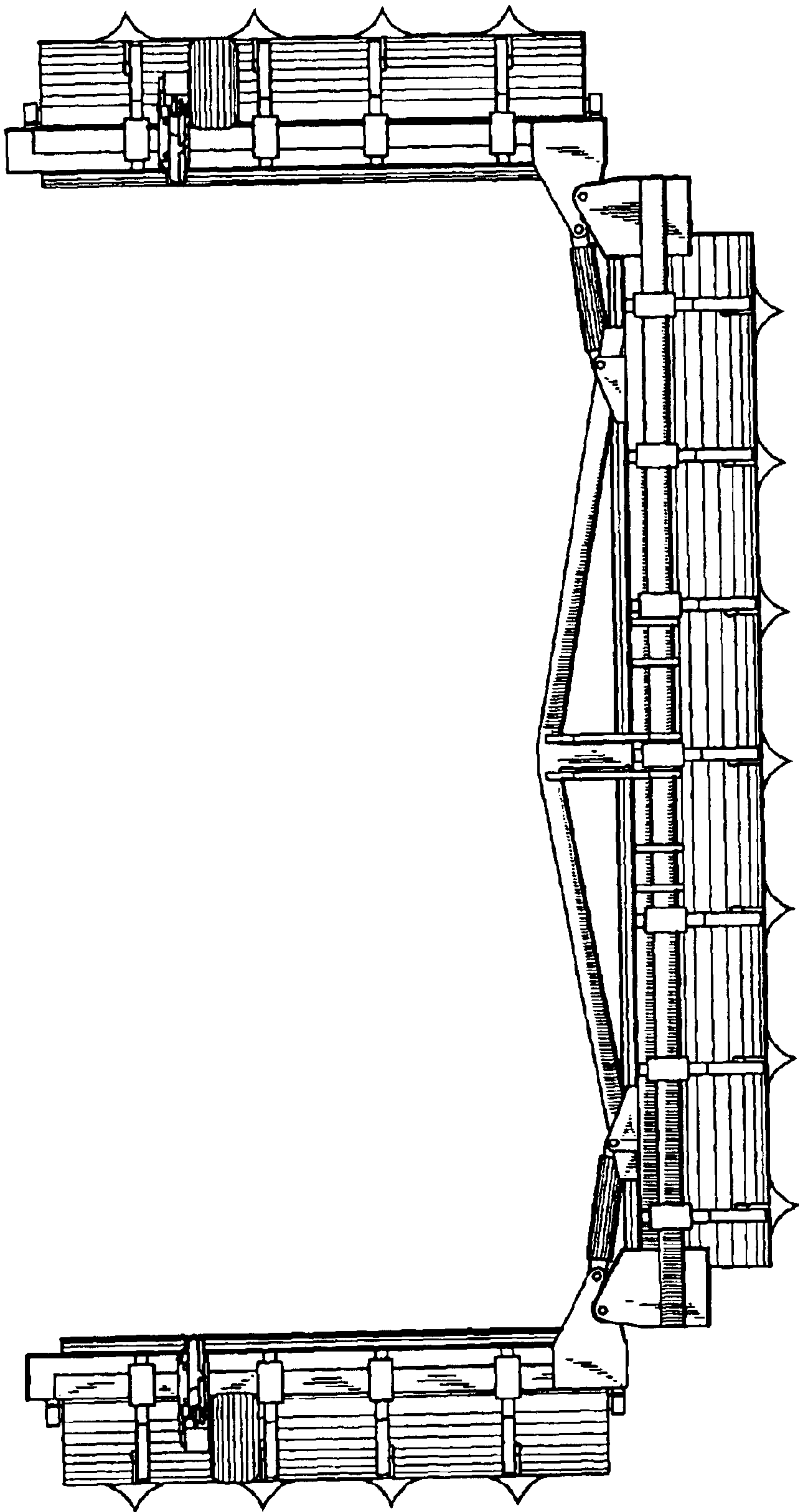


Fig. 11

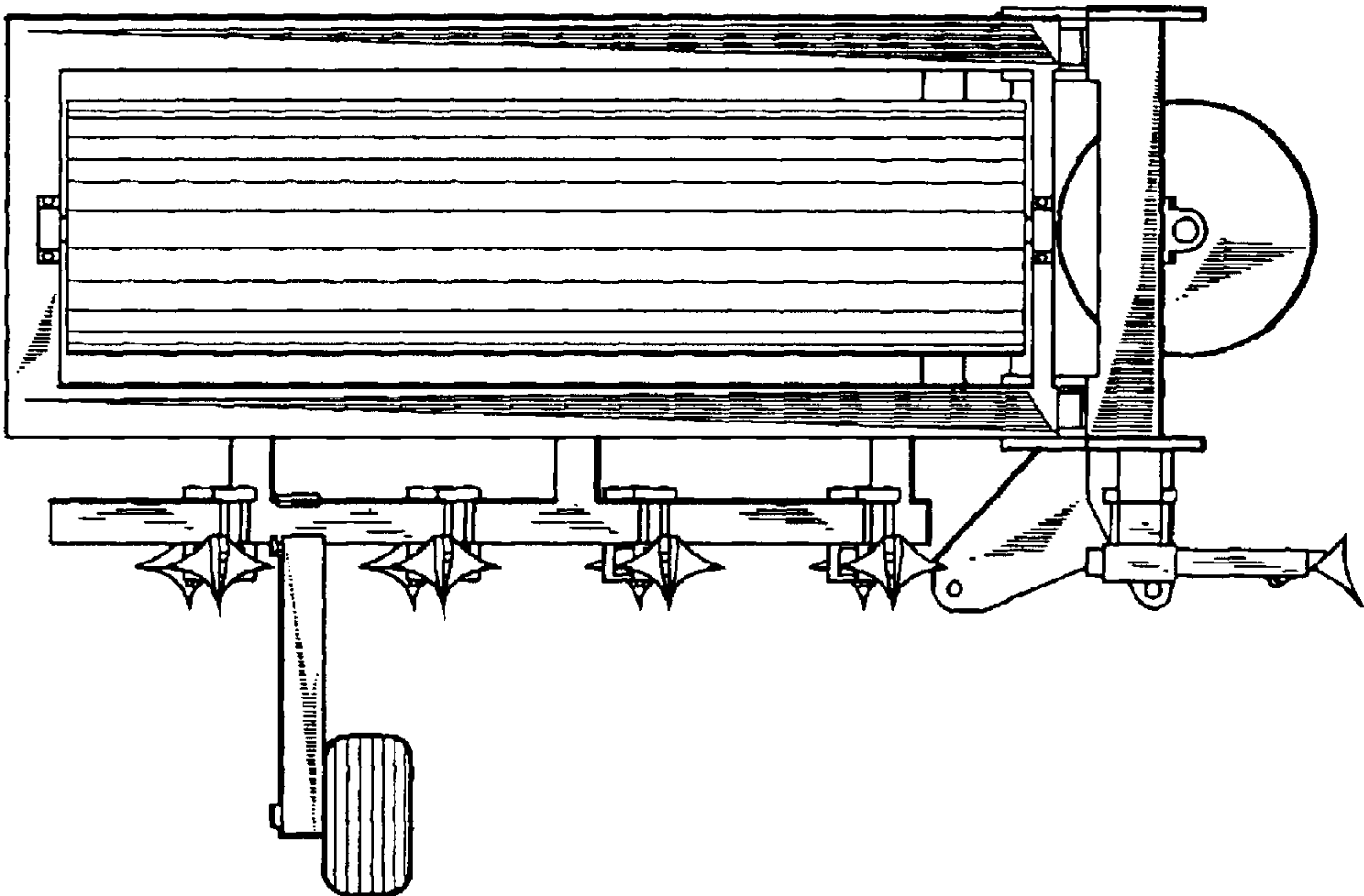


Fig. 13

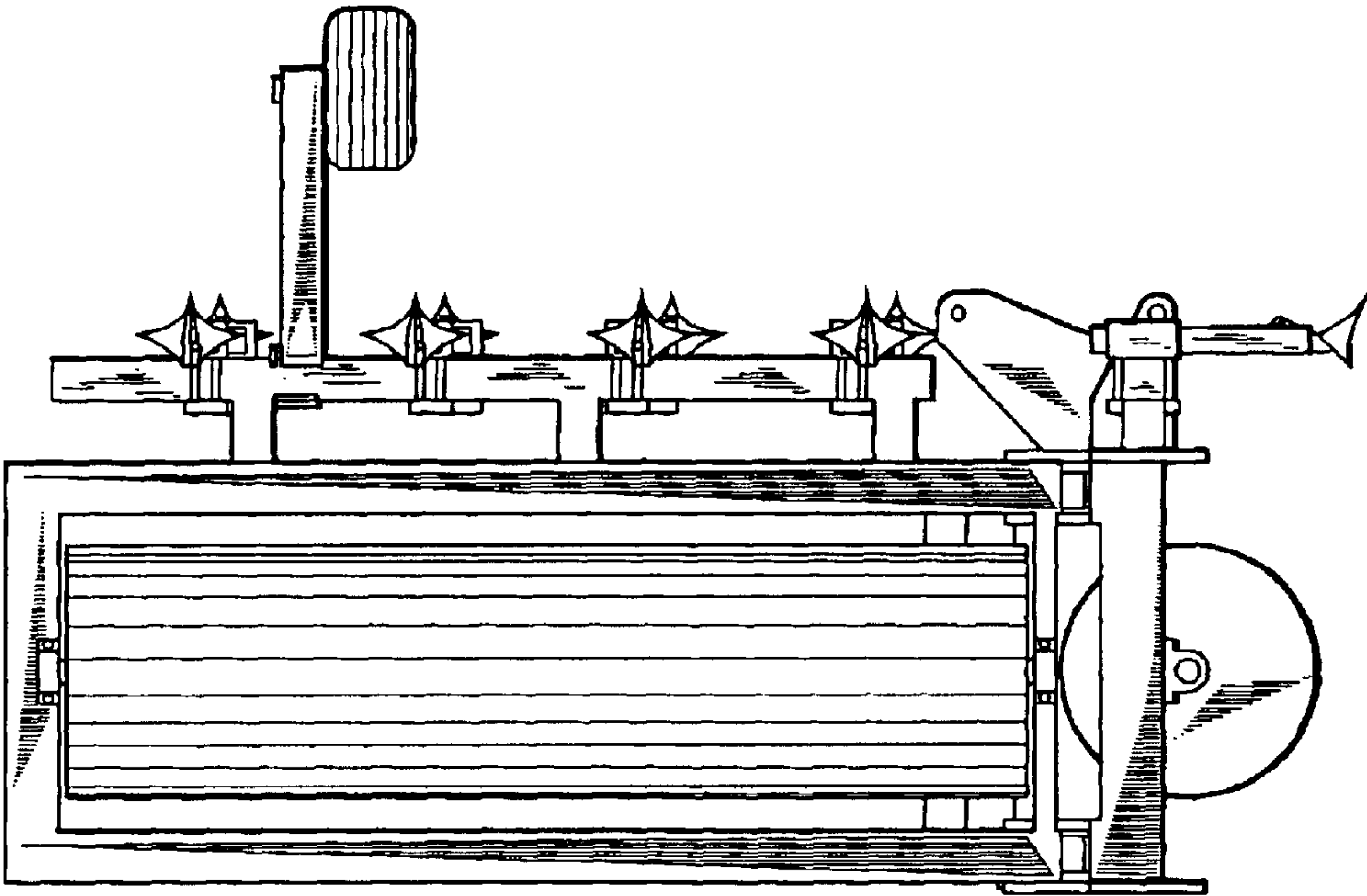


Fig. 12

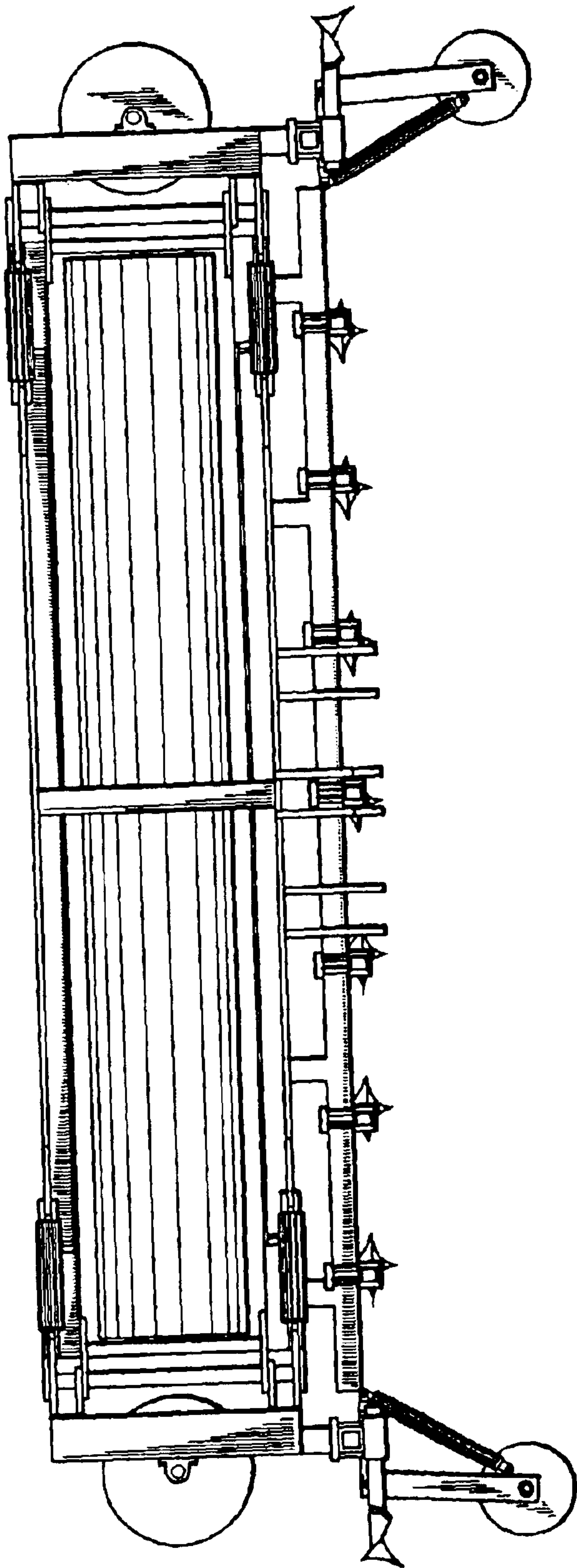


Fig. 14

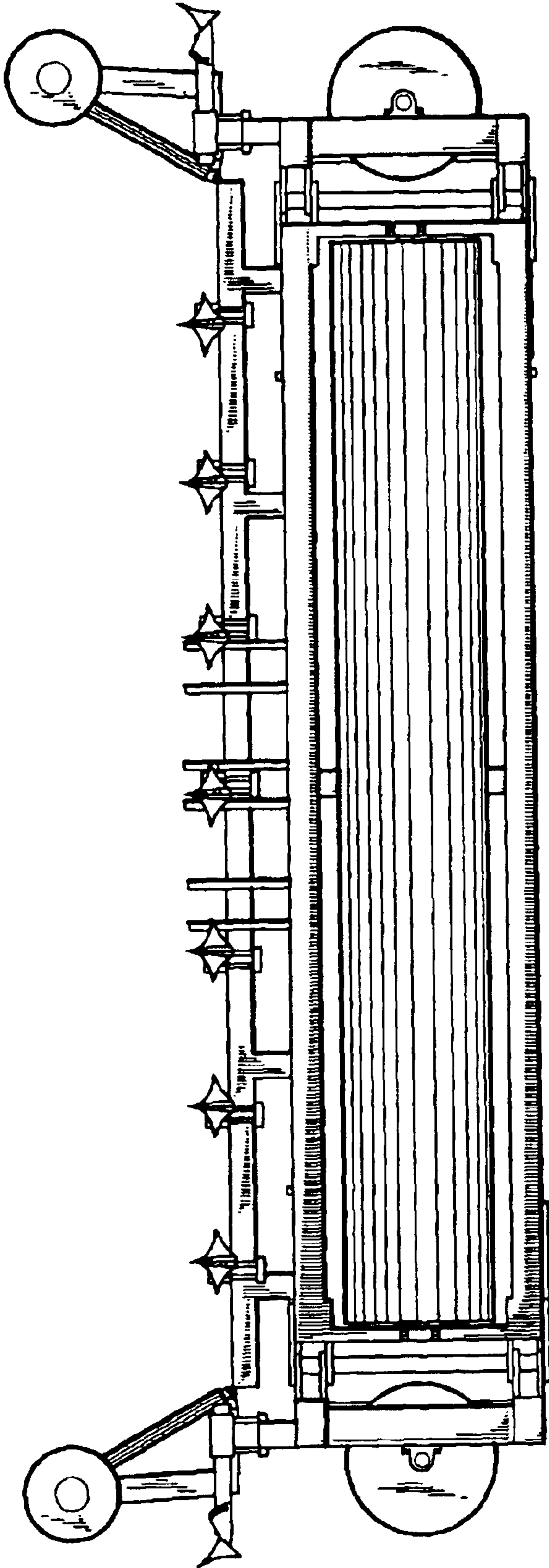


Fig. 15

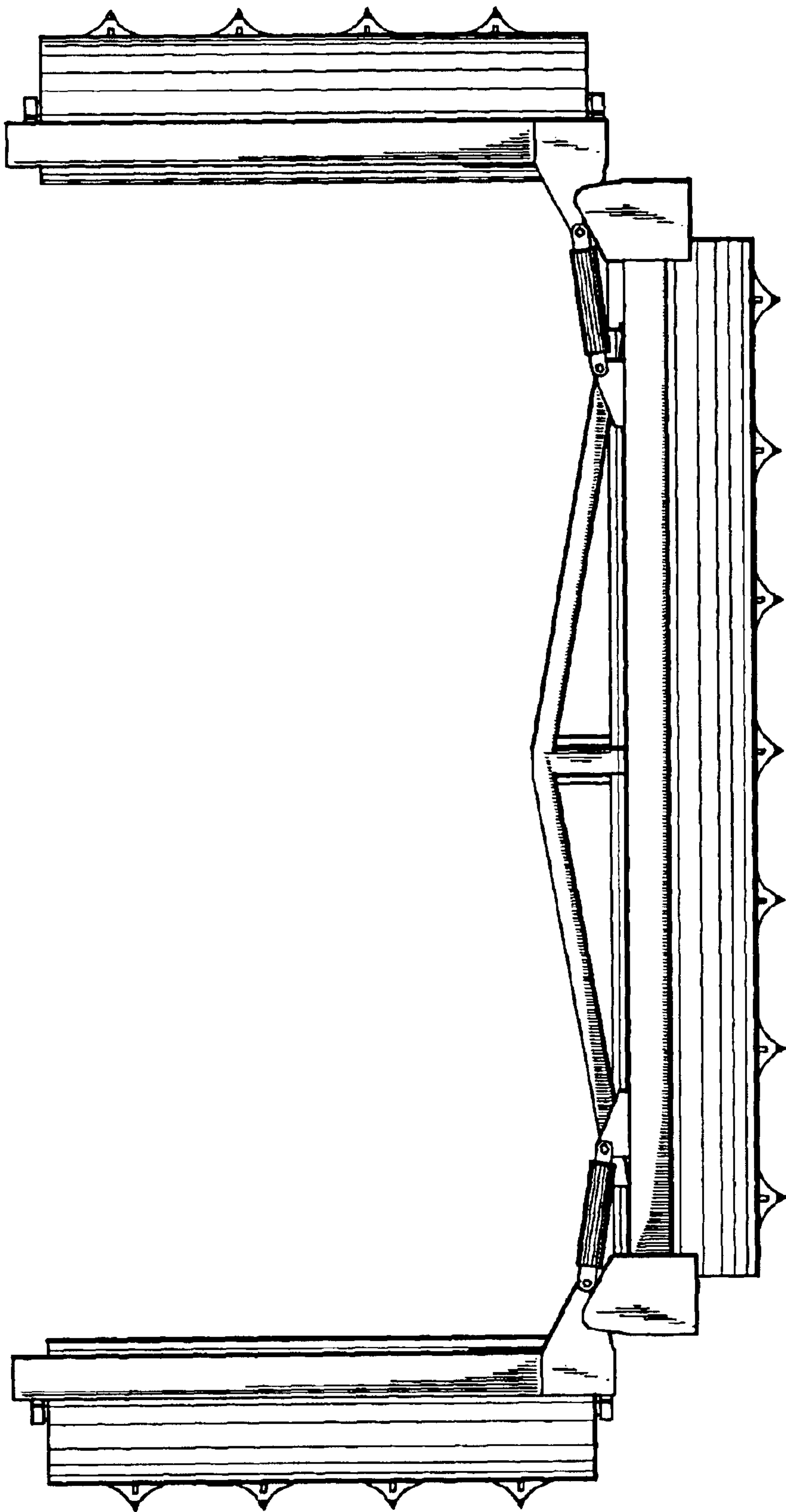


Fig. 16