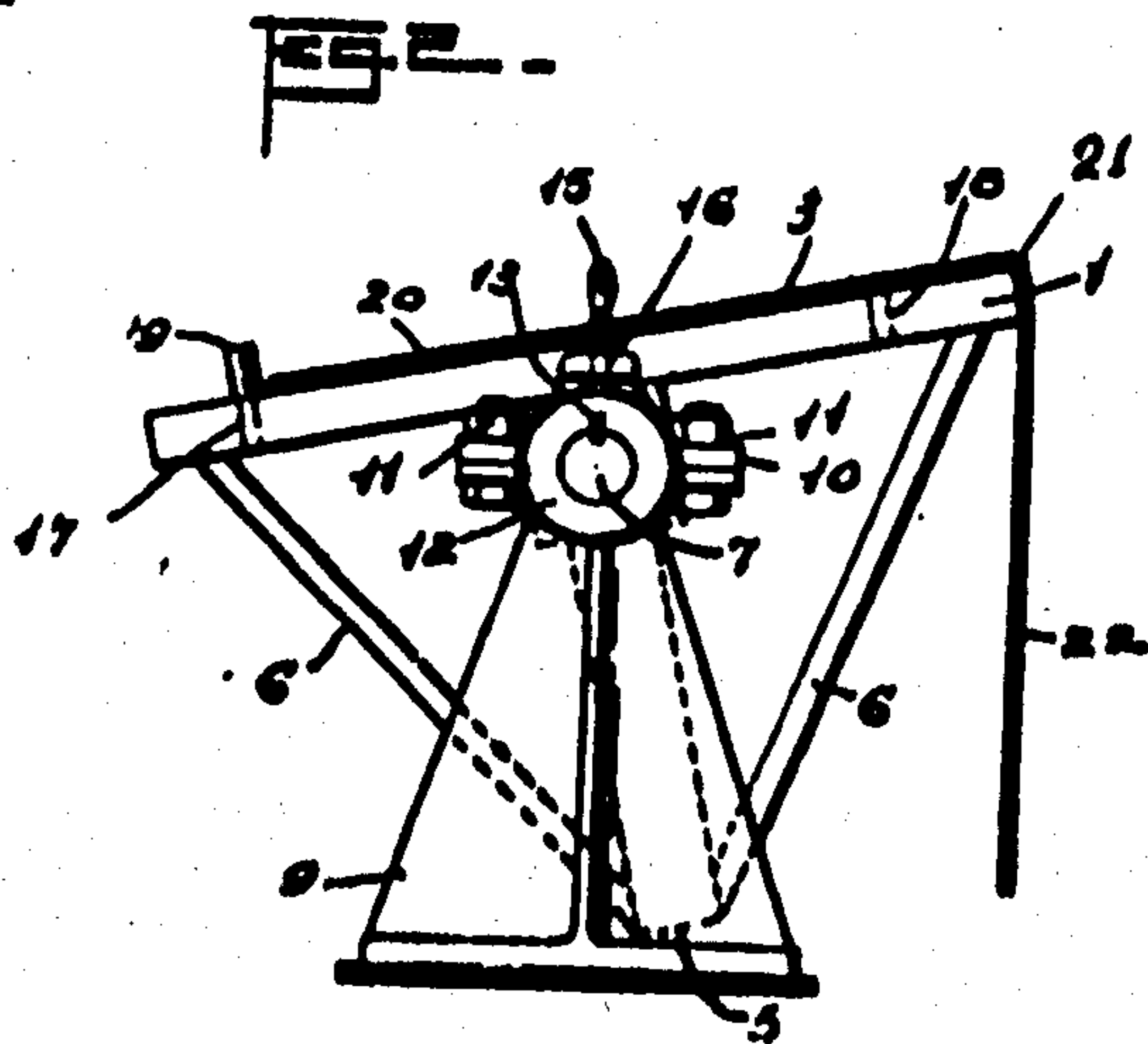
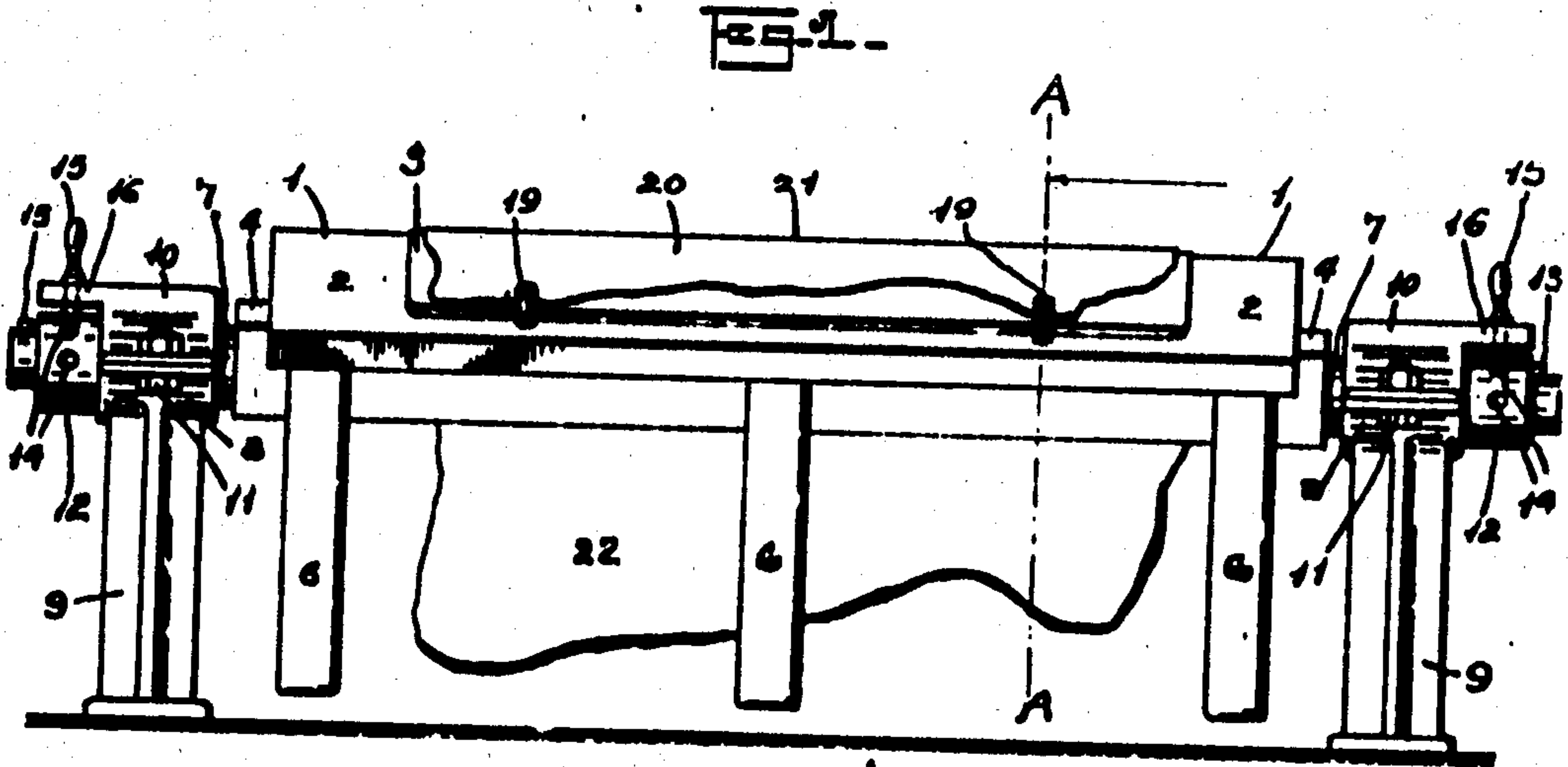


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ART OF MANUFACTURING LEATHER.  
APPLICATION FILED JUNE 27, 1910.

985,466.

Patented Feb. 28, 1911.  
3 SHEETS-SHEET 1.



WITNESSES  
James T. Smith  
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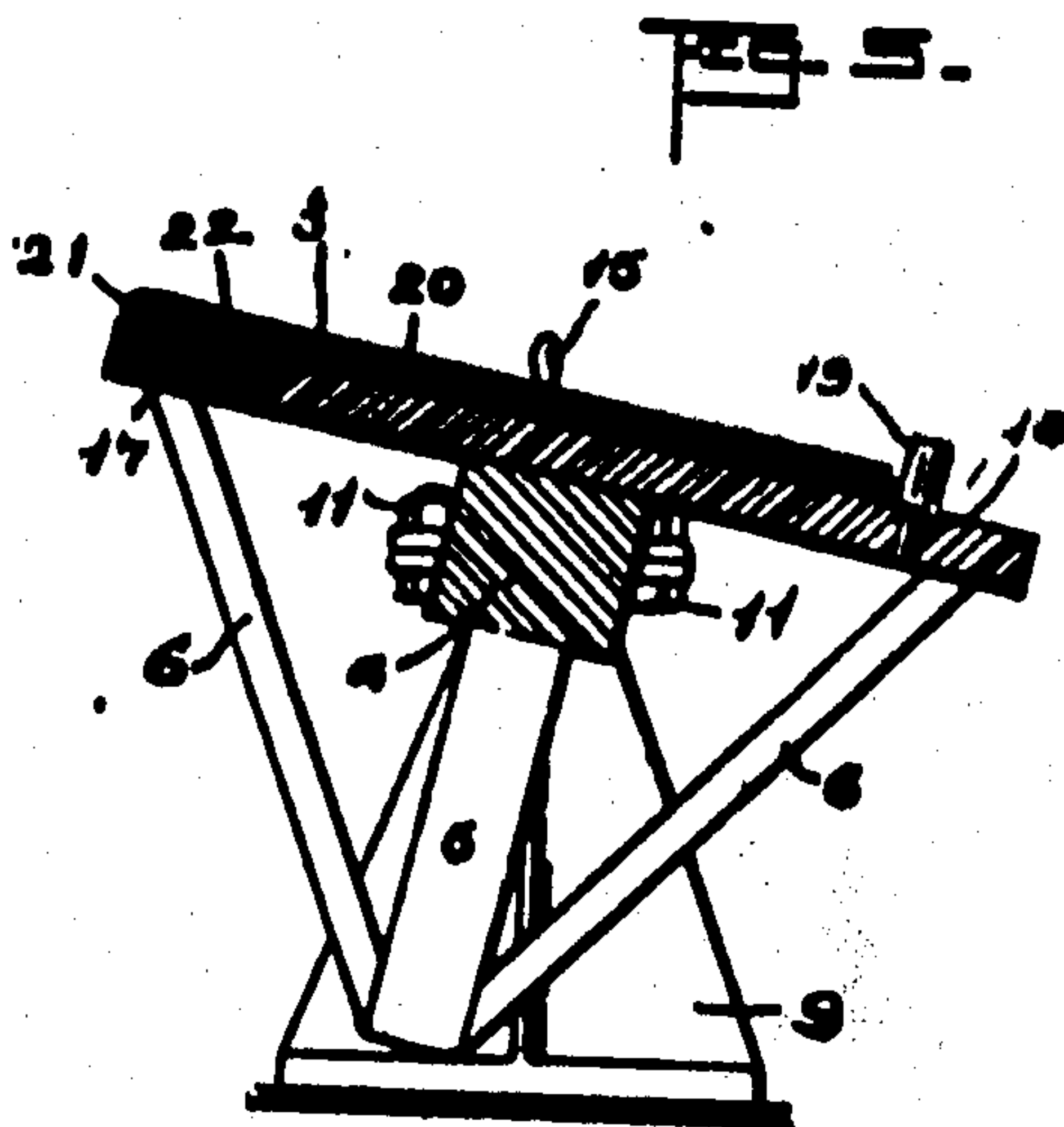
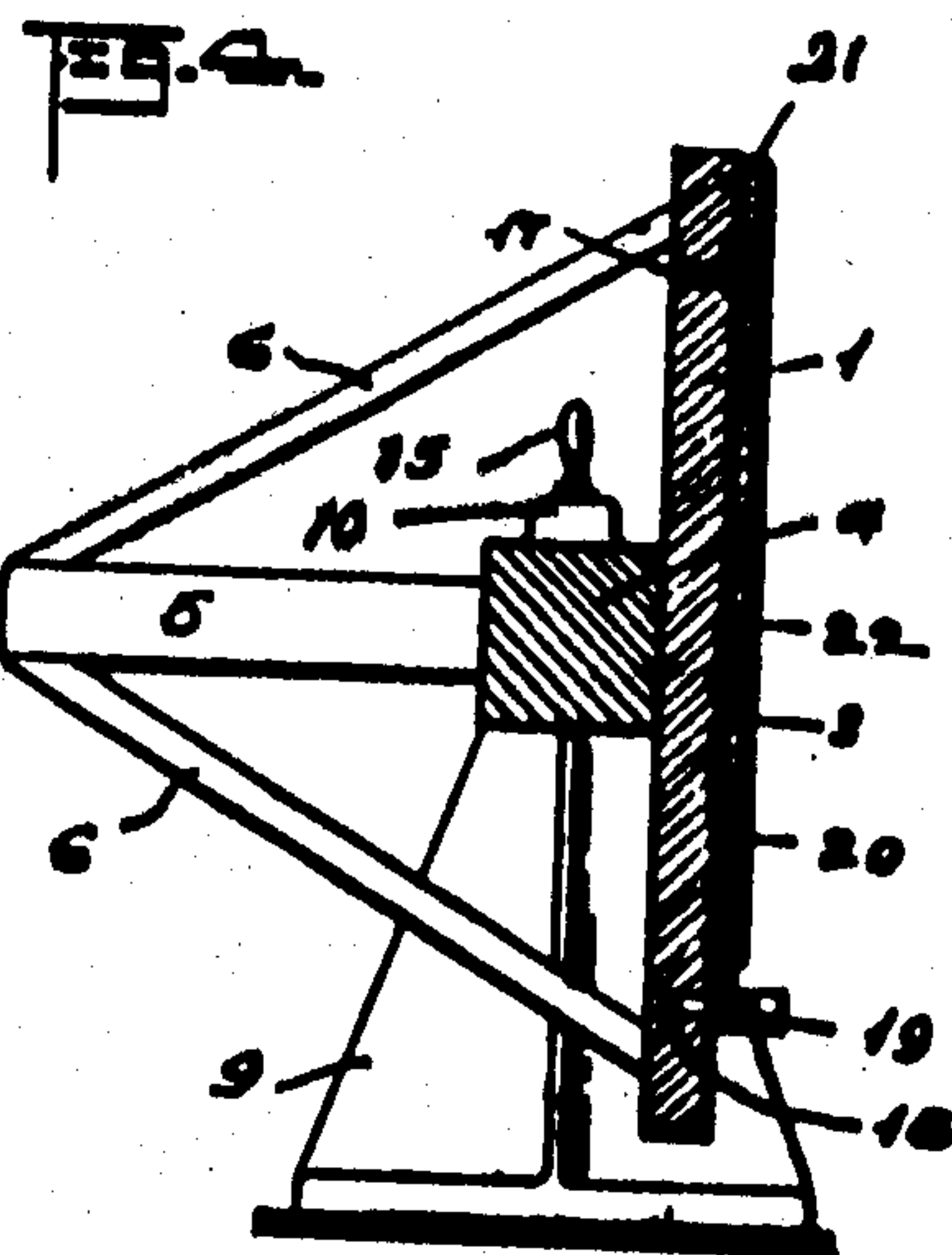
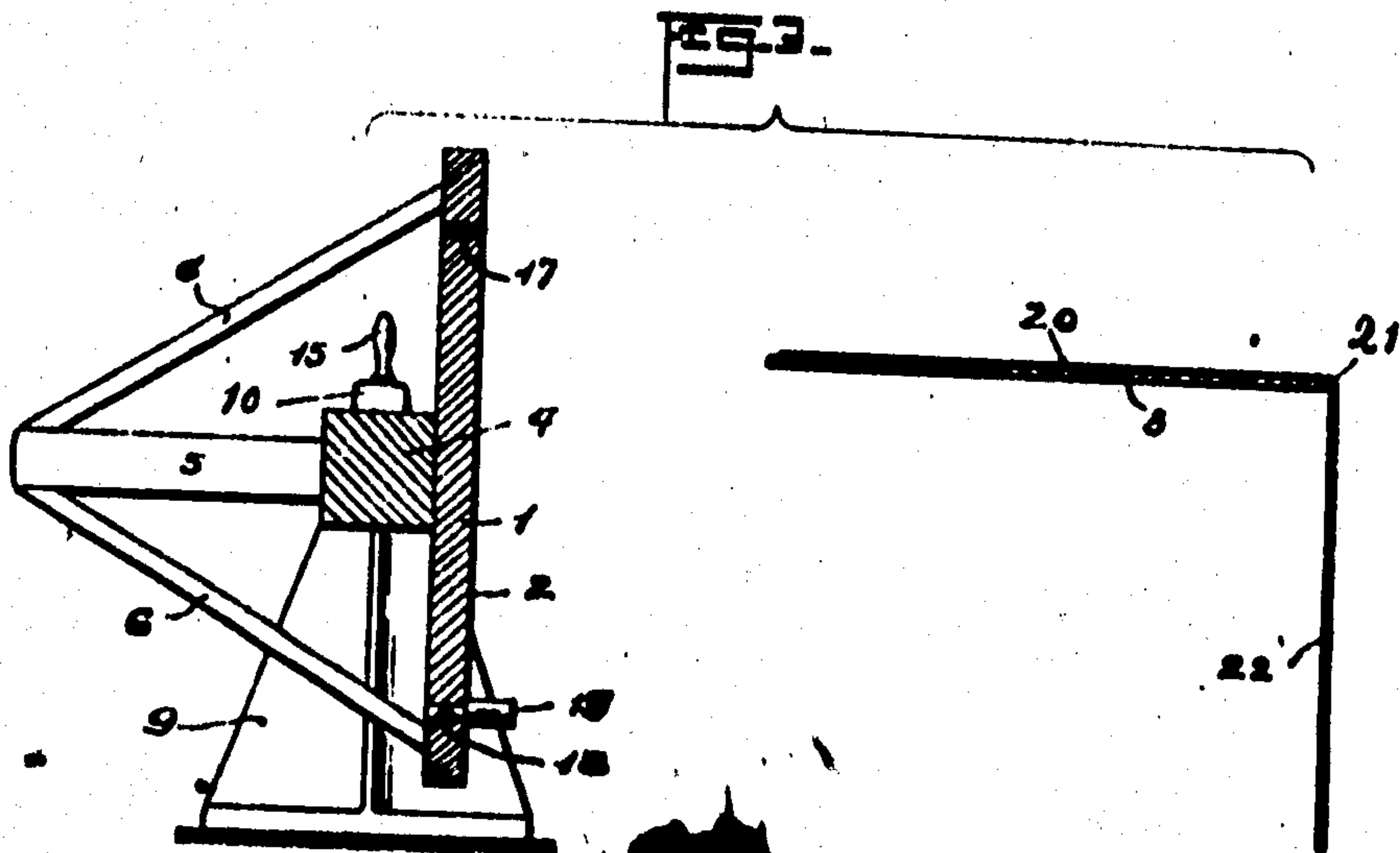
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# UNITED STATES PATENT OFFICE.

JAMES T. SMITH, OF NEWARK, NEW JERSEY.

ART OF MANUFACTURING LEATHER.

985,406.

Specification of Letters Patent. Patented Feb. 28, 1911.

Application filed June 27, 1910. Serial No. 543,972.

*To all whom it may concern:*

Be it known that I, JAMES T. SMITH, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain Improvements in the Art of Manufacturing Leather, of which the following is a specification.

This invention relates to the setting-out and stretching of leather in the course of its manufacture by the method shown and described in my prior application Serial No. 512,812, filed Aug. 11, 1909.

The objects of the present invention are to avoid handling the setting-out board with the leather thereon in other than vertical edgewise position, without any support to prevent the leather from separating and pulling off of the setting-out board while wet and heavy; to retain a firm and strong adherence of the leather to the board up to the time that the leather is dried; to thus secure the most perfect product which is possible; to save time and labor in the practice of my improved method of treating leather above referred to, and to obtain other advantages and results as may be brought out in the following description.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several figures, Figure 1 is a side elevation of the table for carrying out my improved method of setting-out leather, looking at the edge of the table away from the operators during the first part of the setting-out operation; Fig. 2 is an end view of the same; Fig. 3 is a cross section of the table and setting out board, taken on line A—A of Fig. 1, looking in the direction indicated by the arrow, showing the setting-out board removed from the table at the end of the first part of the operation, and said table tipped into position to receive said setting-out board for the last part of the operation; Fig. 4 is a section similar to Fig. 3, with the table in the same position and showing the setting-out board again brought into contact with the table top, and Fig. 5 shows the table, still in section on line A—A of Fig. 1, restored to inclined position for the last part of the setting-out operation or setting-out of the second half of the piece of leather.

In said drawings, 1 indicates a table top providing a hard smooth surface 2 upon

which the setting-out board 3 can be laid flatwise, either with a piece of leather set-out upon itself or without. This table top 1 is so supported that its said surface 2 can be brought into substantially vertical position and inclined in either direction from a horizontal plane, as is necessary in carrying out my improved method herein described. The construction of the means for so supporting the table top is immaterial so far as my method herein described is concerned, but for convenience I have shown the same supporting means which are set forth in my application Serial No. 572,104, filed July 15, 1910. Briefly, said means comprise a beam 4 extending along the longitudinal median line of the table top beneath the same, and to which beam the table top is secured and made rigid by braces 6, 6 extending to posts 5 depending from the beam 4. The ends of the beam form trunnions 7 journaled in bearings 8 of standards 9, said bearings having caps 10 bolted thereto, as at 11. Outside its bearings, each trunnion has a collar 12 keyed thereto, as at 13, and provided with a circumferential series of holes 14 adapted to receive a locking pin 15 which can be inserted through a rigid extension 16 of the cap 10 to hold the table in any desired angular position.

The surface 2 of the table top is adapted to receive the setting-out board flatwise thereon with one edge of said board substantially coinciding with one edge of the surface, and stops of some sort must be provided upon the table top to engage the other edge of the setting-out board and hold it in position. I have shown the stops as consisting of pins 17, 17 adapted to be inserted either in holes 17, 17 near one edge of the table top or in holes 18, 18 near the other edge of the table top, but obviously any other stop means could be employed.

In carrying out my improved method of setting-out the leather, the table top 1 is brought into such position that its upper surface 2 inclines downwardly away from the operators, two of which usually work at the table side by side. The setting-out board 3, which is the same as shown in my said prior application Serial No. 512,812 of August 11, 1909, is then held upon the table top with one edge of itself substantially even with the edge of the table top next the operators or higher edge, the other edge



of the setting-out board engaging the stops 19 near the opposite edge of the table top. The piece of leather 21 to be set-out is then so placed that about half of it, as 20, lies upon the setting-out board 3, while the other half 22 hangs down over the front of the table next the operators, as further shown in Figs. 1 and 2 of the drawings. That portion of the leather lying upon the board 3 is then set-out, and such setting-out may be done by hand with "slickers" or it may be done by machinery or in any other suitable manner known to the art. Furthermore the natural adhesion of the leather to the setting-out board can be depended upon, or a little adhesive used as set forth in my prior application Serial No. 538,008, filed Jan. 18, 1910. When the setting-out of the first half 20 of the piece of leather is completed, the setting-out board 3 with the leather thereon is slid off the table toward the operators, preferably by the two men taking hold of said board at its opposite ends. During this part of the operation the setting-out board is kept in substantially horizontal position, as shown in Fig. 3, so that there is no tendency to detach the set-out half 20 of the leather from the board, such as there would be if the setting-out board were turned upside down as was necessary in my prior application Serial No. 512,812 of August 11, 1909. While the setting-out board is held in such horizontal position, as shown in Fig. 3, the table top 1 is brought into substantially vertical position, as also shown in said Fig. 3, the edge which was formerly higher now being lower, and the stops 19 are shifted to said lower edge or the edge opposite that at which they were formerly stationed. The near edge of the setting-out board or edge next the table top is then brought to rest upon said stops 19 and the board is tilted into vertical position so that its side having the half 20 of the piece of leather thereon lies against the table top and the other half 22 of the piece of leather falls smoothly against the opposite side of the setting-out board, all as clearly shown in Fig. 4 of the drawings. The table top is then tilted back again or brought into inclined position, as shown in Fig. 5 for setting out the second half 22 of the piece of leather. It will be noted that in this position the table top 1 is inclined to the horizontal at substantially the same angle that it was during the setting-out of the first half 20 of the piece of leather, but that the edge of the table top which was lower then is higher now and vice versa. This elevates the edge of the setting-out board over which the piece of leather is doubled, and the operators working at that side of the table, or the side opposite that at which they formerly stood in setting-out the first half 20 of the piece of leather, set-

out the second half 22 in the same manner. When the workmen have finished setting-out said second half 22 of the piece of leather, the table top is again brought into upright or substantially vertical position, as shown in Fig. 4, and with one man at each end the setting-out board with the leather set-out thereupon is lifted off and still being kept in substantially vertical edgewise position is carried away for drying or subsequent operations. At no time, therefore, during my improved method of setting-out the leather, is there any opportunity for the weight of the leather itself to tend to pull said leather perpendicularly off of the said setting-out board. The setting-out board is kept in substantially vertical edgewise position at all times except when the leather set-out upon said board is supported against detaching or pulling off by the table top itself.

Having thus described the invention, what I claim is:

1. The herein described method of setting out leather consisting in laying a setting-out board upon a support, setting out leather upon the upper side or face of said board, removing said board from its support with the leather thereupon and holding it in such position that the board supports the leather so set out, bringing the support into a position substantially parallel to said setting-out board, laying the setting-out board and support together with the set-out leather between them, bringing the support into position for setting-out leather upon the exposed side or face of the setting-out board, and setting out leather on said exposed side or face.

2. The herein described method of setting out leather, which consists in laying a setting-out board upon a table top, setting out leather upon the upper side or face of said setting-out board, sliding said setting-out board edgewise off said table top, tilting the table top toward said setting-out board into substantially vertical position, laying the setting-out board and table top together with the set-out leather between them, bringing the table-top into position for setting out leather upon the exposed side or face of the setting-out board, and setting out leather on said exposed side or face.

3. The herein described method of setting out leather consisting in laying a setting-out board upon a support, setting out one portion of a piece of leather upon the upper side or face of said board, removing said board from its support with the leather thereupon and holding it in such position that the board supports the leather so set out, bringing the support into a position substantially parallel to said setting-out board, laying the setting-out board and support together with the set-out portion of the



piece of leather between them and the other part of the leather bent over the edge of the board and hanging adjacent to the other side, bringing the support into position for setting out said other part of the leather upon the setting-out board, and setting out said other part of the leather.

4. The herein described method of setting out leather, consisting in laying a setting-out board upon a support, setting out leather upon the upper side or face of said board, removing said board from its support with the leather thereupon and holding it in such position that the board supports the leather so set out, bringing the support into a position substantially parallel to said setting-out board, laying the setting-out board and support together with the set-out leather between them, bringing the support into position for setting out leather upon the exposed side or face of the setting-out board, setting out leather on said exposed side or face, bringing the support into substantially vertical position, and removing the setting-out board in upright edgewise position with the leather set out thereon.

5. The herein described method of setting

out leather, consisting in laying a setting-out board upon a support, setting out one portion of a piece of leather upon the upper side or face of said board, removing said board from its support with the leather thereupon and holding it in such position that the board supports the leather so set out, bringing the support into a position substantially parallel to said setting-out board, laying the setting-out board and support together with the set-out portion of the piece of leather between them and the other part of the leather bent over the edge of the board and hanging adjacent to the other side, bringing the support into position for setting out said other part of the leather upon the setting-out board, setting out said other part of the leather, bringing the support into substantially vertical position with the edge of the setting-out board over which the leather is bent uppermost, and removing the setting-out board in such upright edgewise position with the leather set out thereon.

JAMES T. SMITH:

In the presence of—

RUSSELL M. EVERETT,  
FRANCES E. BLODGETT.