

(No Model.)

2 Sheets—Sheet 1.

S. A. SMITH.
MOLDBOARD.

No. 568,216.

Patented Sept. 22, 1896.

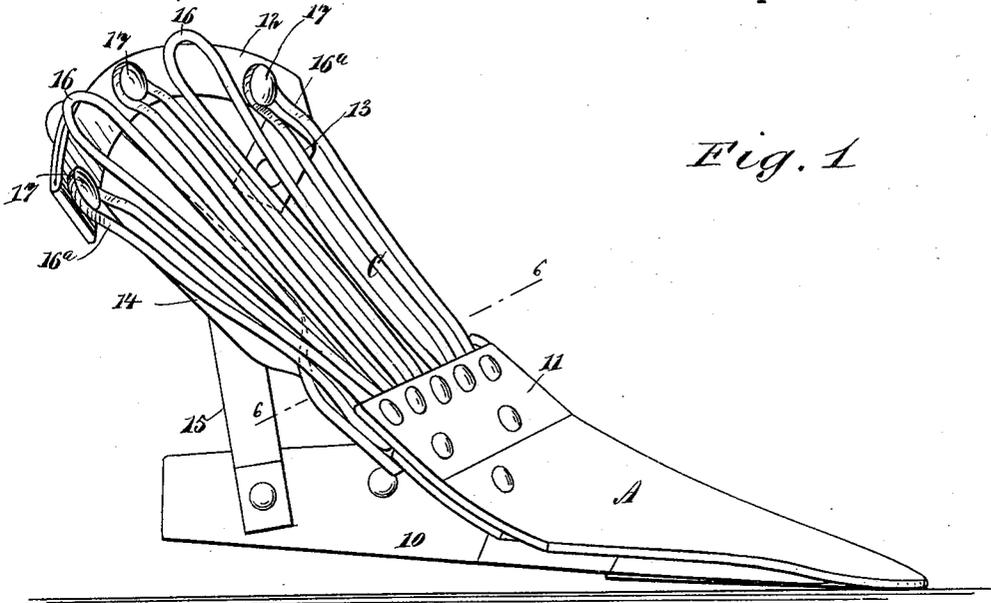


Fig. 1

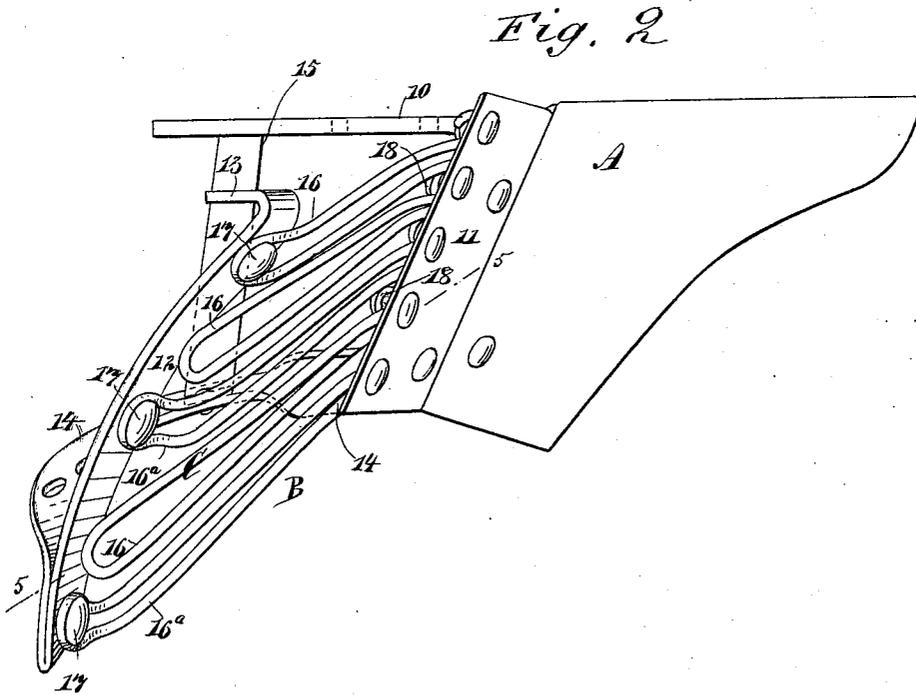


Fig. 2

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BY *Munn*
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

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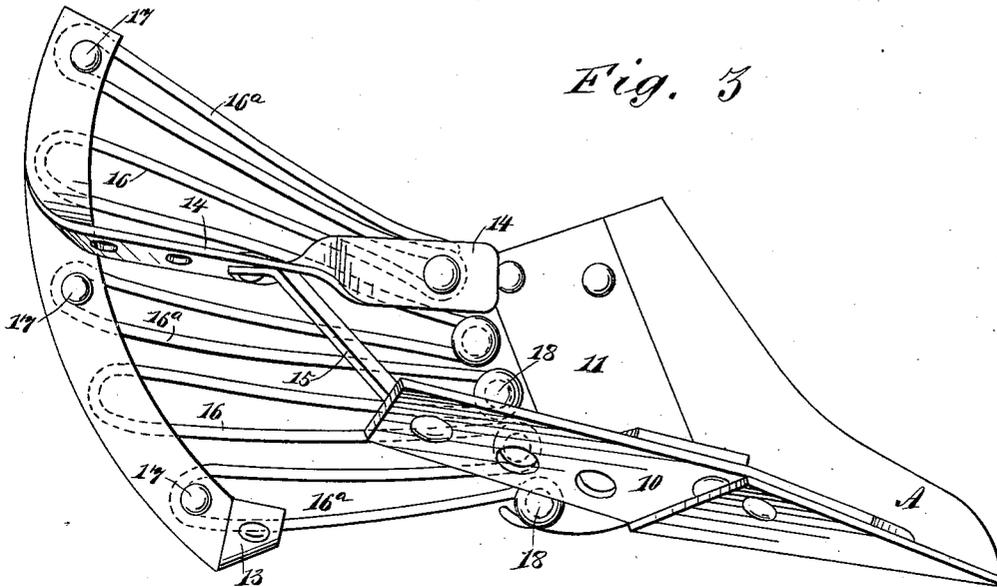


Fig. 3

Fig. 5

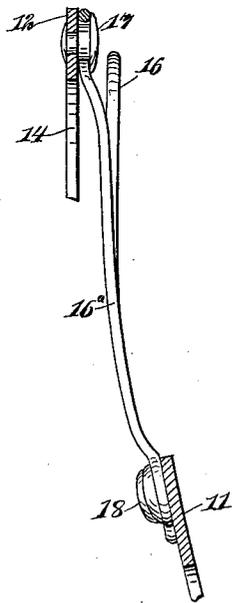


Fig. 4

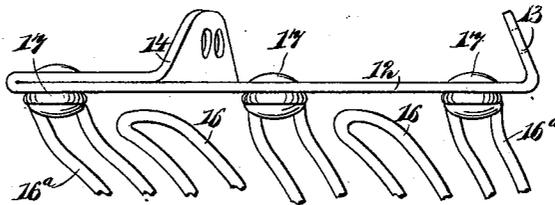
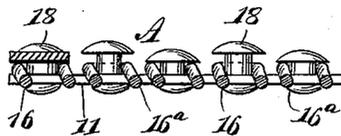


Fig. 6



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UNITED STATES PATENT OFFICE.

SAMUEL A. SMITH, OF MCKINNEY, TEXAS.

MOLDBOARD.

SPECIFICATION forming part of Letters Patent No. 568,216, dated September 22, 1896.

Application filed May 23, 1896. Serial No. 592,738. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL A. SMITH, of McKinney, in the county of Collin and State of Texas, have invented a new and useful Improvement in Moldboards, of which the following is a full, clear, and exact description.

The object of my invention is to provide a moldboard adapted to any plow constructed of a series of spring-loops, sundry of which are movable at the top and sundry others having movement at the bottom of the board, the movable loops being kept in motion by the earth passing over the board, whereby portions of the board are rendered vibratory and the earth is effectually prevented from clinging thereto.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improved moldboard. Fig. 2 is a plan view of the same. Fig. 3 is an inverted perspective view. Fig. 4 is a plan view of the top portion of the moldboard, illustrating the relative position of the fixed and the loose loops at the upper portion of the board. Fig. 5 is a section taken substantially on the line 5 5 of Fig. 2, and Fig. 6 is a transverse section taken substantially on the line 6 6 of Fig. 1.

In carrying out the invention the point or share A may be of any desired construction, and the frame of the moldboard consists of a rearwardly-extending plate 10, attached to the point or share at the landside of the same, a bottom plate 11, which is secured to the top edge of the share, an arched top bar 12, bent upon itself at one end to form a rearwardly and downwardly extending member 13, which member, together with the lower side plate 10, is arranged for attachment to a beam or shank. At the opposite end of the arched bar the said bar is preferably bent backward upon itself, and is thence carried downward and secured to the rear of the bottom plate 11, this downwardly-extending bar 14 being connected with the landside-bar 10 by a cross-

brace 15. The back bar 14 at its upper portion is adapted to be attached to the moldboard-handle.

The body B of the moldboard consists of a number of loops formed from steel wire or rods of suitable thickness, and sundry of these loops, designated as 16, are unattached at the top of the frame, normally standing forwardly from the top arched bar 12, as shown in Fig. 4, while the other loops 16^a at the top are securely fastened to the arched bar 12 by means of rivets 17 or their equivalents. Ordinarily each alternate loop is free at the top of the board. The bottom portions of all of the loops pass over rivets 18, which are located upon the back of the bottom plate 11, and preferably each alternate rivet 18, or those intermediate of the end rivets, are longer than the others, as shown in Fig. 6, so that sundry of the loops will have play on the long rivets at the bottom of the moldboard, while the other loops at the bottom will be held fast by the shorter rivets. One strand at least of each loop that is free at the top is passed around one of the longer rivets.

It will thus be observed that the body of the moldboard will have a vibratory action, the free portions of the loops or body being kept constantly in motion by the earth passing from the share across the moldboard, and it is therefore impossible for the moldboard to become clogged or have any earth cling thereto, as the earth that does not sift through the board will be shaken therefrom. The parts of the frame adapted for attachment to the plow beam and handles serve as braces for the body portion of the board.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A moldboard, consisting of a frame and a body portion constructed of spring material and extending between the top and bottom of said frame, sundry portions of said body being attached to the frame at the top and the remaining portions being free at the top, and sundry portions being rigidly connected with the frame at the bottom and other portions being movably connected with the said frame at the bottom, as and for the purpose specified.

2. A moldboard consisting of a rigid frame, and a body portion constructed of spring-wire or rods bent to loop form, sundry of the loops being free from the frame at the top and
5 others of the loops being movably connected with the said frame at the bottom, whereby portions of the frame are capable of vibratory action, as and for the purpose set forth.

3. A moldboard, consisting of a frame and
10 a body portion constructed of spring-wire or rods bent to form loops, sundry of the loops being secured to the frame at the top and the remaining loops being free from the frame at the top, the frame at the bottom being pro-
15 vided with a series of rivets over which the

loops pass, sundry of said rivets being longer than the others to permit of the movement of the loops, as and for the purpose set forth.

4. A moldboard, consisting of a frame provided with a bottom plate adapted to be se- 20 cured to the share, an arched top bar having downwardly-extending members and a body portion supported by the bottom plate and arched top bar, and having parts arranged to vibrate, as and for the purpose specified.

SAMUEL A. SMITH.

Witnesses:

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HUGH McCLELLAN.