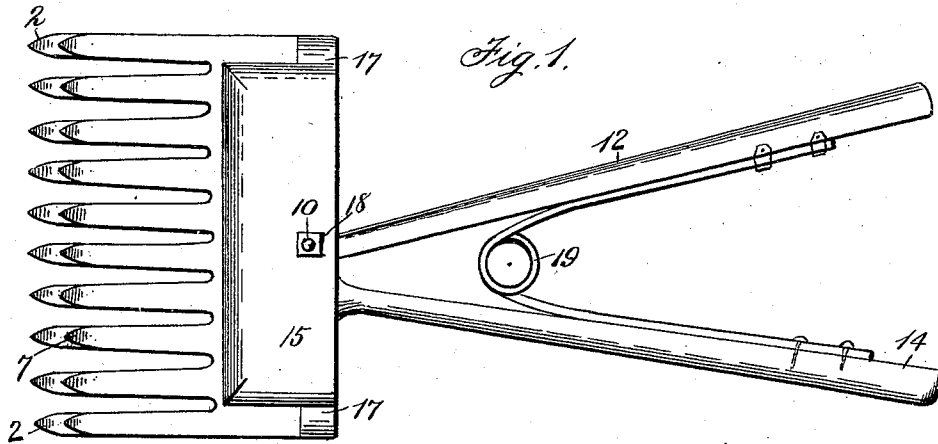
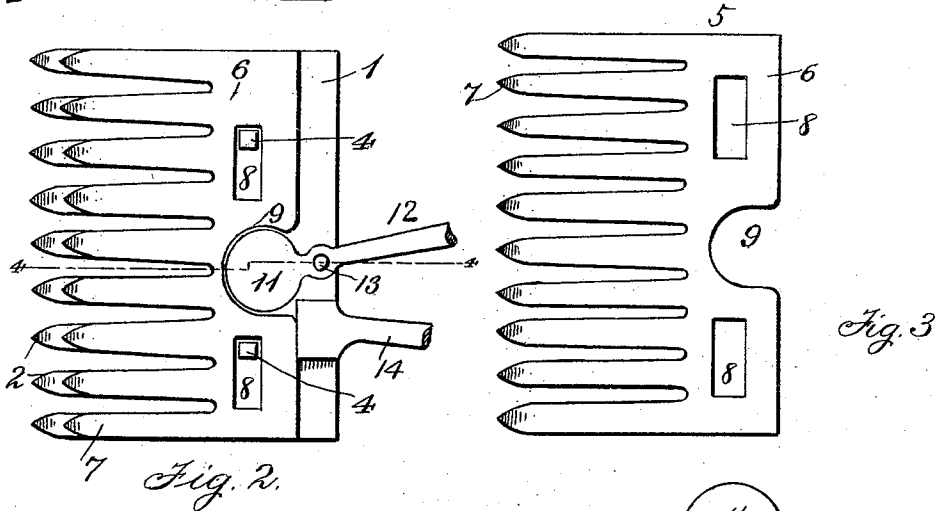
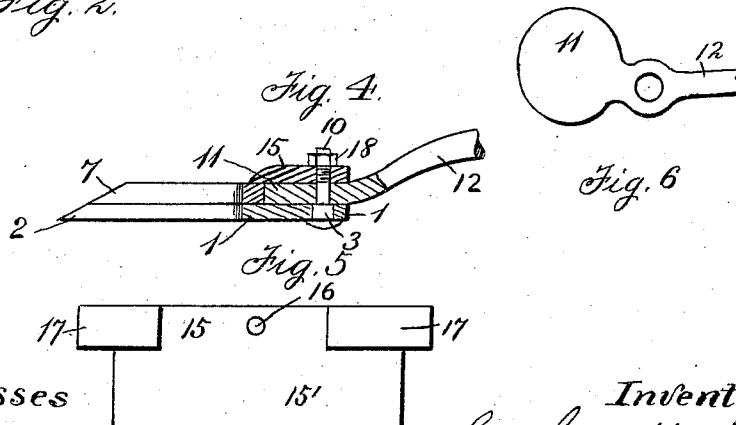


C. S. McNEW.
GRASS CLIPPER.
APPLICATION FILED JUNE 3, 1908.

929,239.

Patented July 27, 1909.



Witnesses
J. L. O'Rand
B. C. Troth.

Inventor
C. S. McNew
by John S. Duggie
Attorney

UNITED STATES PATENT OFFICE.

CHARLES S. McNEW, OF PINE BLUFF, ARKANSAS.

GRASS-CLIPPER.

No. 929,239.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed June 3, 1908. Serial No. 436,415.

To all whom it may concern:

Be it known that I, CHARLES S. McNEW, a citizen of the United States, residing at Pine Bluff, in the county of Jefferson and State of Arkansas, have invented certain new and useful Improvements in Grass-Clippers, of which the following is a specification.

My invention is a grass-clipper, and consists of parts substantially as shown in the accompanying drawings.

In manufacturing my invention I do not confine myself to any particular length, width or thickness, nor do I confine myself to any particular material out of which the parts may be made. I may press the tooth-plates and all parts out of plate-steel, or of other suitable material.

My invention is chiefly for the purpose of cutting grass around trees, stumps, flowers in the corners of fences, or other places where a large cutter cannot be used.

In the accompanying drawings, Figure 1, is a top-plan view of my invention. Fig. 2, is a top plan view of the tooth-plates, the eccentric lever, part of the handle broken away, and the rigid arm partly broken away, the top plate removed. Fig. 3, is a face view of the top tooth-plate. Fig. 4, is a cross sectional view of Fig. 2, on the line 4, 4. Fig. 5, is a bottom plan view of the top-plate. Fig. 6, is a top plan view of a lever having an eccentric head, part of the handle broken away.

My invention is described as follows:—
The numeral 1, represents the lower tooth-plate; 2, the cutting-teeth. Said tooth-plate is provided near its rear edge with a square perforation 3, (see Fig. 4) and on its upper face and some little distance from its rear edge and side edges, with guide and limiting lugs 4; 5, represents a face view of the upper tooth-plate, the body 6, of which, is not so long as the body of the lower tooth-plate, and it is also provided with cutting-teeth 7, which correspond to the cutting-teeth 2, of plate 1, but not quite so long; said body 6, is provided with cross-slots 8, in which the said lugs 4, work, and thereby guide said plate, and keep it from moving too far to the right or left. In the rear edge of said upper tooth-plate is a semi-circular recess 9. Fitting in the square perforation 3, of the lower tooth-plate, is the square part of a threaded bolt 10, which bolt is cylindrical, except the square part just mentioned. Working in said semi-circular recess 9, is the eccentric head

11, of the lever 12. This lever is provided with a circular perforation 13, which fits over the cylindrical part of said bolt 10, by means of which it is fulcrumed to said lower tooth-plate 1, and by means of which lever, the plate 6, and cutting-teeth 7, are moved to the right and left. Rigidly secured to the upper face and rear edge of said plate 1, is an arm 14.

The numeral 15, represents a lower face view of the binding plate, which is provided with a circular perforation 16, corresponding to the said perforation 13, which works over the cylindrical portion of the bolt 10. Said plate 15, is provided on its under face, and at each end, with elevating blocks or turned down parts of said plate 15 17, which taper upwardly and forwardly. Said plate is secured bottom side down to the upper face of said lower plate 1, its forward edge 15¹, fitting down over the upper face of said upper plate, and over said lugs 4, its rear part fitting over the eccentric part of lever 12, and the forward end of arm 14, said blocks 17, being for the purpose of raising said plate 15, to give room for the lever 12, and plate 6, to move to the right and left. The forward edges of said blocks 17, are so inclined as to cause the forward edge 15¹, of said plate, to bear down sufficiently tight on the plate 6, to cause its cutting-teeth to come sharply in contact with the cutting-teeth of tooth-plate 1.

All the parts above described are held together by the bolt 10 and nut 18, which not only serves to hold the assembled parts together, but may also be used to loosen or tighten the pressure of the forward edge of the plate 15.

A double-spring 19, has one end rigidly secured to the inner face of the arm 14, and its other arm slidably secured to the inner face of the eccentric lever 12.

The purpose of having the lever head slightly eccentric, is to enable me to throw the tooth-plate 6, fully to the right, thus giving the teeth full sweep.

The operation of my invention is so apparent it is not necessary to describe it.

Although I have specifically described the combination, construction and arrangement of the several parts of my invention I do not confine myself particularly to such specific combination, construction and arrangement, as I may exercise the right to make such changes and modification therein as may

clearly fall within the scope of my invention, and which may be resorted to without departing from the spirit, or sacrificing any of my patentable rights therein.

5 Having described my invention, what I claim as new and desire to secure by Letters Patent, is:—

10 A grass clipper, consisting of a lower plate 1, provided with cutting-teeth 2; guide and limiting lugs 4, rising from the upper face of said plate near its rear edge and a little distance from each of its side edges, and a square perforation near its rear edge; an upper plate 6, provided with cutting-teeth 7,
15 corresponding to the cutting-teeth of said lower plate, and having cross slots 8, fitting over said lugs 4, and in its rear edge a semi-circular recess 9; an arm 14, rigidly secured to the rear edge of said lower plate; a lever
20 12, provided with a circular perforation 13, and eccentric head 11, pivoted to said lower plate, its eccentric head working in said semi-

circular recess; a binding plate 15, provided in its rear edge with a circular perforation 16, and on its under face, at each end, with forwardly tapering elevating blocks 17, said
25 blocks shaped to cause the forward edge 15¹, of said plate to bind against the upper face of said upper plate 6, said enumerated parts held together by a bolt 10 its square part fitting in said square perforation, its cylindrical
30 part in said circular perforation, a nut 18, secured on its threaded end, and a double-spring 19, having one end rigidly secured to the arm 14, and its other end slidably secured to the lever 12, substantially as shown
35 and described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES S. McNEW.

Witnesses:

ISAAC F. LONG,
STERLING A. MILLER.