W. A. SNYDER.

LAWN RAKE.

APPLICATION FILED APR. 27, 1916.

1,209,060.

Patented Dec. 19, 1916.

2 SHEETS—SHEET 1.

FIG. 1.

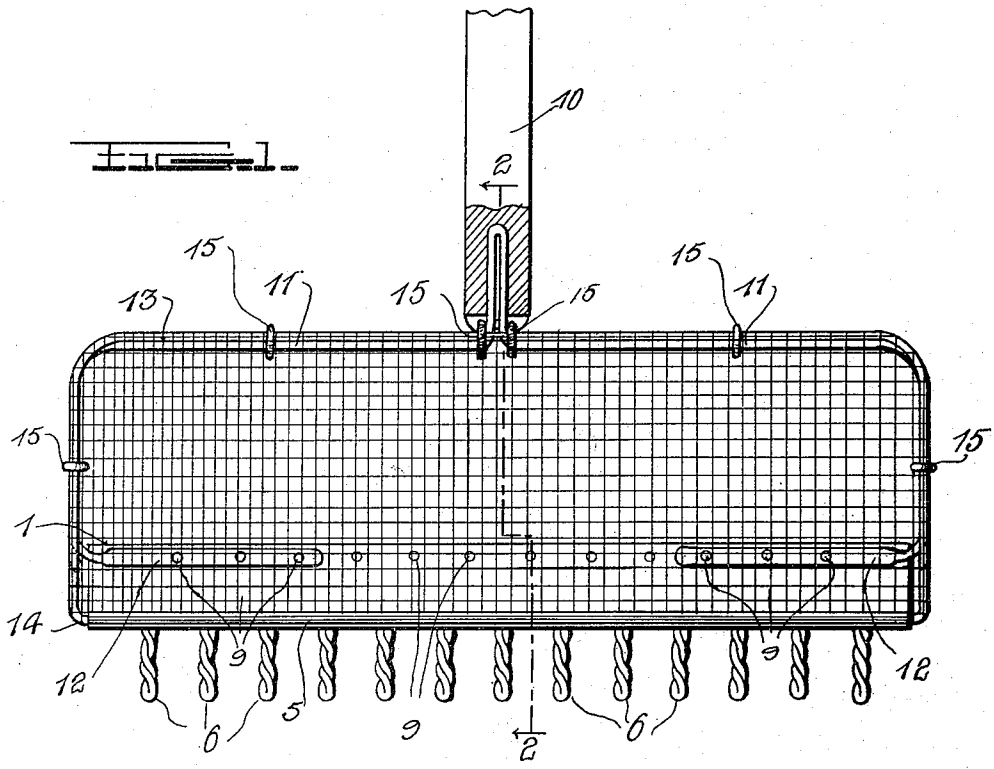


FIG. 2.

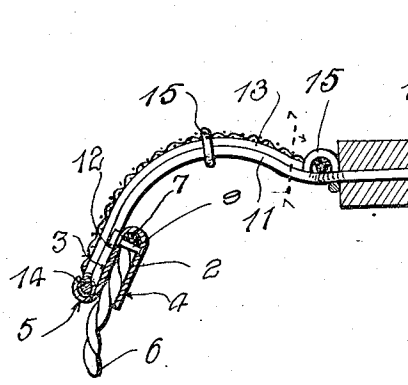
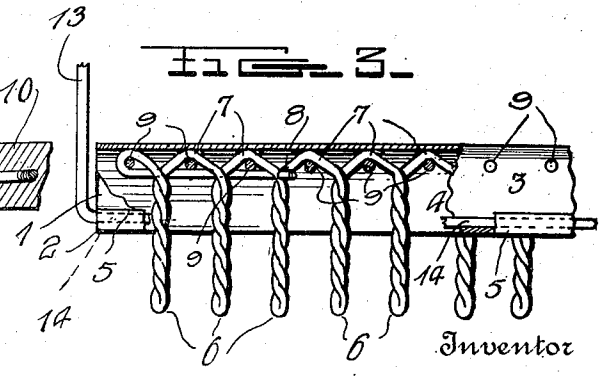


FIG. 3.



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2 SHEETS—SHEET 2.

Fig. 4.

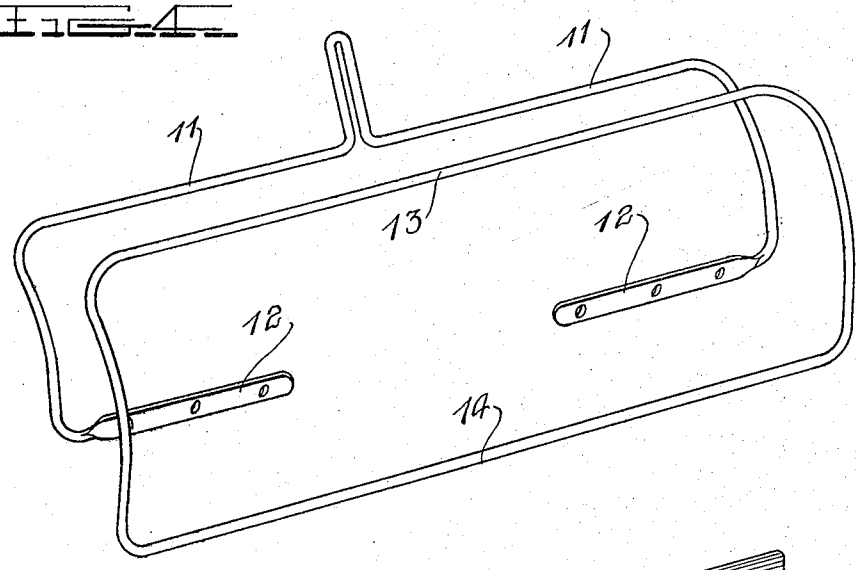


Fig. 5.

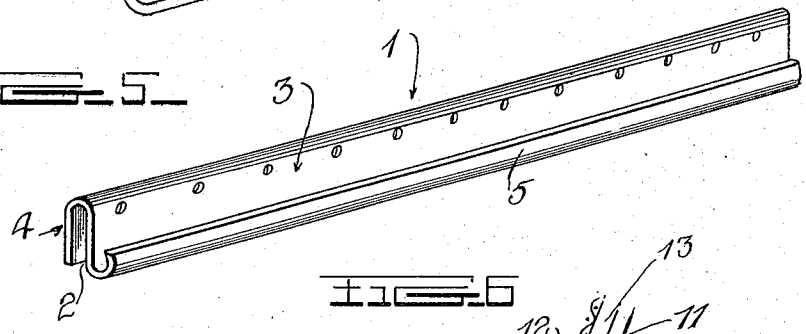


Fig. 6.

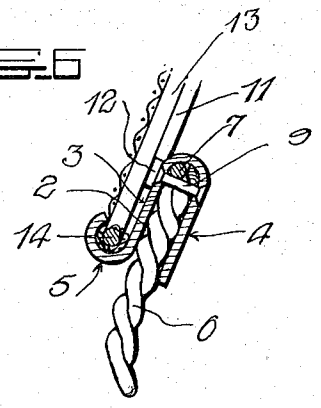
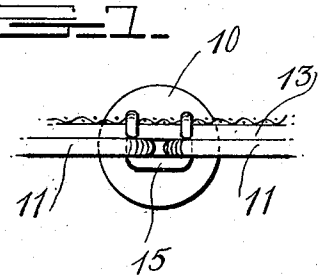


Fig. 7.



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UNITED STATES PATENT OFFICE.

WILBUR A. SNYDER, OF MONTOURSVILLE, PENNSYLVANIA.

LAWN-RAKE.

1,209,060. Specification of Letters Patent. Patented Dec. 19, 1916.

Application filed April 27, 1916. Serial No. 94,017.

To all whom it may concern:

Be it known that I, WILBUR A. SNYDER, a citizen of the United States, residing at Montoursville, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Lawn-Rakes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates generally to garden and lawn implements, and more particularly to certain new and useful improvements in lawn rakes.

The primary object of the invention is to provide a rake having a shield located above and rearwardly of the points of the teeth, said shield forming preferably a pocket into which the material raked up is gathered and retained during the advance movement of the rake, thus preventing scattering of leaves and trash over the surface already raked.

Another object of the invention is to provide a rake of this character constructed entirely of wire with the exception of a sheet metal head, the primary object of which is to strengthen the continuous series of connected teeth.

A further object of the invention is to provide a device of this character which is of simple, strong, durable and inexpensive construction, and one which will be well adapted to the purpose for which it is designed.

With these and other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be hereinafter fully described and claimed.

In the accompanying drawings forming a part of the specification and in which similar reference characters designate like parts throughout the several views: Figure 1 is a front elevation of a device constructed in accordance with this invention; Fig. 2 is a transverse sectional view taken on the plane of the line 2—2 of Fig. 1; and, Fig. 3 is a longitudinal sectional view through a portion of the head, showing the construction of the teeth of the rake; Figs. 4 and 5 are detail perspective views of detached parts of the device; Fig. 6 is an enlarged transverse sectional view through the head of the rake; and Fig. 7 is a detail sectional view taken on the plane of the line 7—7 of Fig. 2.

Referring more particularly to the drawings, the reference numeral 1 designates the head of the rake, the same being formed by folding a light strip of sheet metal longitudinally upon itself, thereby providing a channel 2 between the forward portion 3 and the rear portion 4 thereof. The lower edge of the forward portion 3 of the head is rolled upwardly and inwardly as at 5 to aid materially in strengthening said head, and for a further purpose to be hereinafter described.

The teeth 6 of this improved rake are constructed from a continuous piece of wire which is doubled upon itself at predetermined distances throughout its length and twisted. The portions of the wire connecting the adjacent teeth are of inverted V-shape configuration as at 7, while the ends of said wire are bent inwardly from the outermost teeth and anchored in any suitable manner, here shown as being provided with eyes 8 which are connected to one of the V-shaped portions 7. As shown by Fig. 3 of the drawings, the teeth 6 are curved longitudinally so as to enable them to more effectively rake under the leaves or other trash, as will be readily understood.

The connected ends of the teeth 6 are disposed in the channel 2 formed between the forward and rear portions 3 and 4 respectively of the head and retained therein by suitable fastening elements, here shown in the form of rivets 9 which extend transversely through the head and are received in the vertices of the aforesaid V-shaped portions 7. As many of these rivets 9 as are necessary may be provided.

The rake is provided with a light wooden handle 10 from the lower end of which extends outwardly in opposite directions a pair of arms 11. The outer ends of the arms 11 are bent forwardly into a spaced parallel relation, then curved downwardly and provided with inwardly extending flat portions 12, the latter being firmly secured to the head 1 by any suitable means, but preferably by the aforesaid rivets 9. These arms 11 are preferably constructed of heavy wire, and in connection with the head 1 form a substantially rectangular shaped frame.

The device as above described will be found to be very reliable in removing short

grass and small quantities of leaves or the like from a lawn, but when large quantities of leaves or the like are to be removed from the lawn, much difficulty has been experienced because of the fact that the leaves pile up and pass over the upper edge of the head. To obviate this difficulty, a transversely curved substantially rectangular shaped shield or screen 13 is provided, the forward lower edge 14 of which is disposed in the aforesaid rolled portion 5 of the head 1. This screen 13 has its other sides conforming in shape with the aforesaid arms 11 carried by the handle, and is secured to said arms by suitable fastening devices, here shown in the form of rings 15. The screen may be made in a number of ways, but preferably it comprises a heavy wire frame having woven wire mesh connecting the sides and ends thereof. It is obvious that with such a screen extending above and rearwardly of the rake head, a pocket is formed into which the material raked up is gathered and retained during the advance movement of the rake.

From the above description, taken in connection with the accompanying drawings, the construction and advantages of the device will be readily understood without a more extended explanation.

As various minor changes in form and proportion and the minor details of construction may be resorted to without departing from the spirit of the invention, I do not wish to be limited to the construction herein shown and described, other than that set forth in the appended claims.

I claim as my invention:

1. A device of the class described comprising a sheet metal strip folded longitudinally upon itself to provide a channeled head, the lower edge of the forward portion of said head being rolled upwardly and inwardly, a handle having means for connection to said head, a screen secured to said handle and having its forward lower side disposed in the rolled portion of said strip, and a plurality of teeth secured to said head.

2. A device of the class described comprising a sheet metal strip folded longitudinally upon itself to provide a channeled head, the lower edge of the forward portion of said head being rolled upwardly and inwardly, a handle, a pair of arms secured at one end to said handle and having their other ends fixed to the ends of said head, a screen having its forward lower side disposed in the rolled portion of said strip, the other sides of said screen conforming in shape with said arms and provided with means for securing the same thereto, and a plurality of teeth secured in said head.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILBUR A. SNYDER.

Witnesses:
W. W. CHAMPION,
FRANCES B. CHAMPION.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."