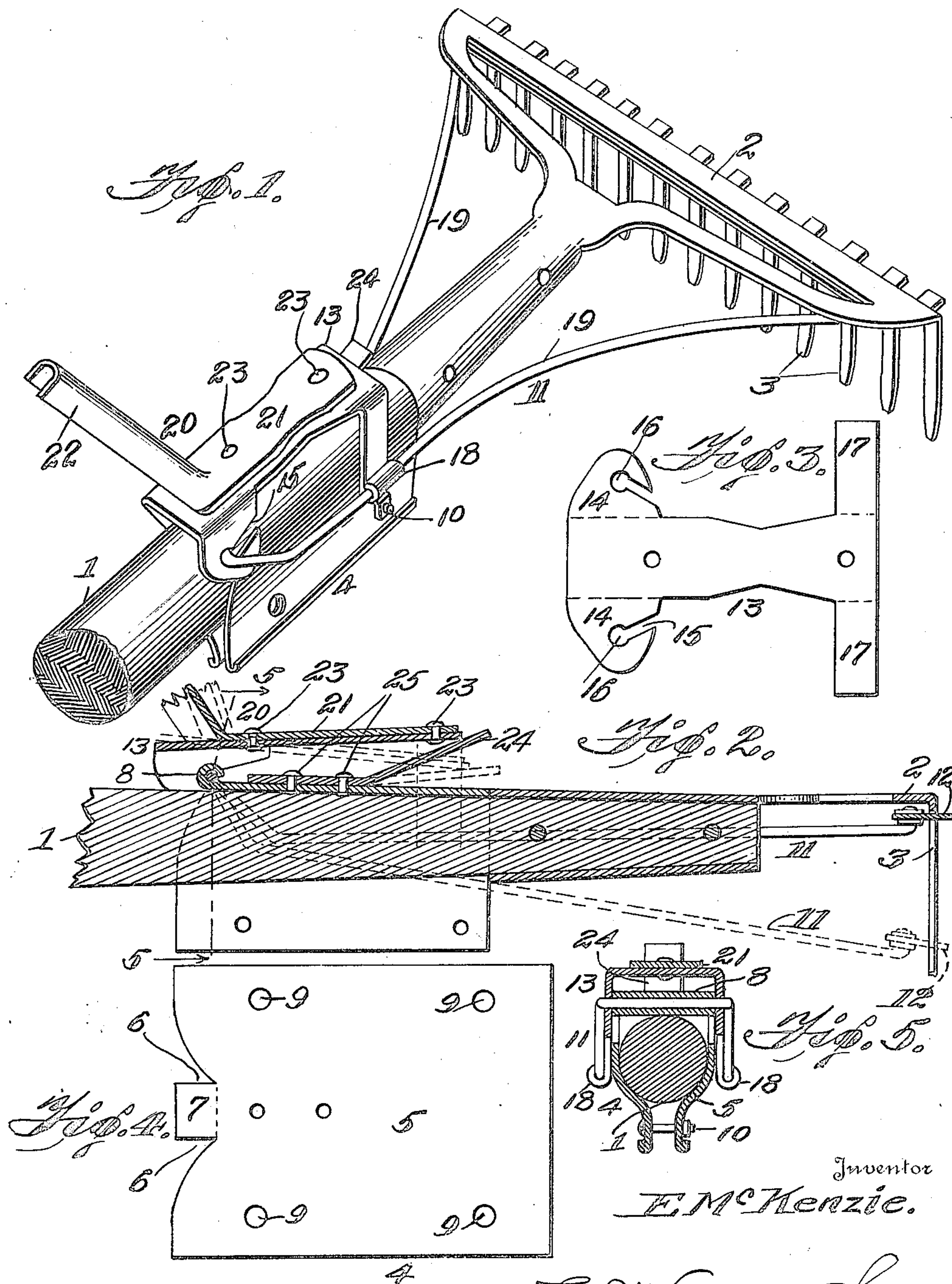


Jan. 2, 1923.

1,441,013.

E. McKENZIE.
RAKE CLEANER.
FILED FEB. 4, 1922.



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UNITED STATES PATENT OFFICE.

ELLIOT McKENZIE, OF MOUNTAIN IRON, MINNESOTA.

RAKE CLEANER.

Application filed February 4, 1922. Serial No. 534,196.

To all whom it may concern:

Be it known that I, ELLIOT McKENZIE, a citizen of the United States, residing at Mountain Iron, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Rake Cleaners, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a rake cleaner, and the object of the invention is the provision of a simple and efficient device that can be readily attached to an ordinary rake, and which device will easily clean the teeth of the head of the rake, at the will of the operator.

With this and other objects in view, my invention comprises certain novel combinations, constructions and arrangements of parts as will be hereinafter described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claim.

In the drawings:

Figure 1 is a perspective view of my rake cleaner device, shown applied to an ordinary rake, while

Figure 2 is a longitudinal, sectional view of the same.

Figure 3 is a plan view of the blank employed in making the auxiliary frame.

Figure 4 is a plan view of the blank used in making the primary frame.

Figure 5 is a sectional view, taken on line 5—5, Fig. 2, and looking in the direction of the arrows.

Referring to the drawings by numerals, 1 designates the handle, 2 the head, and 3 the teeth of an ordinary rake.

My rake cleaning device comprises a primary frame 4 formed from a blank sheet (Fig. 4) of metal; this frame 4 comprises a body 5 notched as at 6—6, at one end, producing an extension 7 (Fig. 4) which is adapted to be rolled to form an ear 8, Figs. 2 and 5. The body 5 is bent around the handle 1 and in the registering apertures 9 are placed bolts 10, Fig. 5, for fastening the primary frame upon the handle 1.

A yoke-frame 11 is pivotally mounted, at its inner end, in the ear 8 and carries a comb bar 12 on its outer end; the comb bar works

against the teeth 3 for cleaning the same when the device is operated.

The auxiliary frame 13 is formed from a blank, and primary ears 14 are formed upon the sides of the auxiliary frame, these ears being provided with slots 15, which slots open into sockets 16, at their inner ends. The yoke-frame 11 is slid into slots 15 and then are seated in sockets 16, Fig. 1. The auxiliary ears 17, at the front end of the auxiliary frame 13 are bent down, and their lower ends are rolled into ears 18, around the arms 19 of the yoke-frame 11.

The grip device 20 comprises a base portion 21 and a grip portion 22; the rivets 23 fasten the base portion 21 against the top of the auxiliary frame 13. A spring 24 is fastened by rivets 25 to the top of the primary frame 4, the outer end of the spring pressing at all times upwardly upon the outer end of the auxiliary frame 13, causing the comb bar 12 to be held up near the head 2 so as not to interfere with the using of the rake, but when the teeth are clogged or otherwise need cleaning, the operator can grasp the grip portion 22, pushing forward thereon, resulting in the comb bar 12 moving downwardly, as shown in dotted lines in Fig. 2, resulting in cleaning the teeth 3 of any foreign substances, or clinging refuse. Upon pressure being removed from the grip portion 22, such as when the operator releases the grip device, the spring 24 will automatically press up on the outer end of the auxiliary device, resulting in the comb bar 12 moving to its inoperative position against the head, as clearly shown in Fig. 2.

While I have described the preferred embodiment of my invention, and have illustrated the same in the accompanying drawings, certain minor changes or alterations may appear to one skilled in the art to which this invention relates, during the extensive manufacture of the same and I, therefore, reserve the right to make such alterations or changes as shall fairly fall within the scope of the appended claim.

What I claim is:

In a device of the class described, the combination of a primary frame, a yoke-frame provided with a comb bar pivotally mounted on said primary frame, an auxiliary

frame formed from a blank sheet of metal and provided with a set of primary ears at one end and with a set of auxiliary ears at its other end, said primary ears provided
5 with slots and with sockets at the inner ends of said slots, said yoke-frame seated in said sockets, said auxiliary ears rolled at their lower ends around said yoke-frame, a spring
between said frames and normally exerting an upward pressure upon the auxiliary 10 frame at its outer end, and a grip device fastened to the auxiliary frame.
In testimony whereof I hereunto affix my signature.

ELLIOT McKENZIE.