Jan. 24, 1923.

1,657,322

L. G. SHINN

TURF SMOOTHING DEVICE

Filed June 18, 1925

Fig. 1.

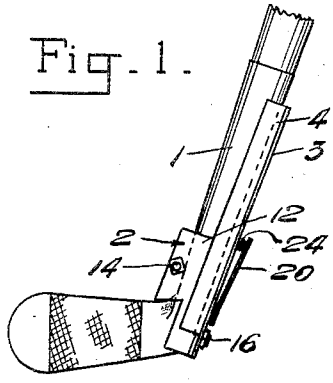


Fig. 2.

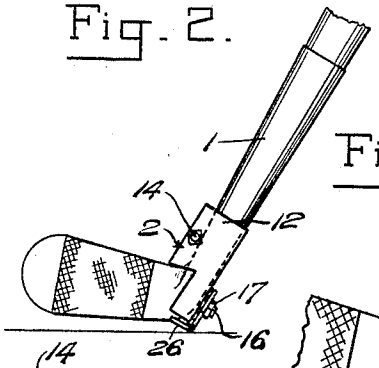


Fig. 7.

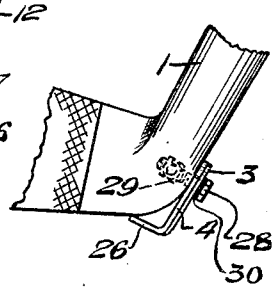


Fig. 3.

Fig. 4.

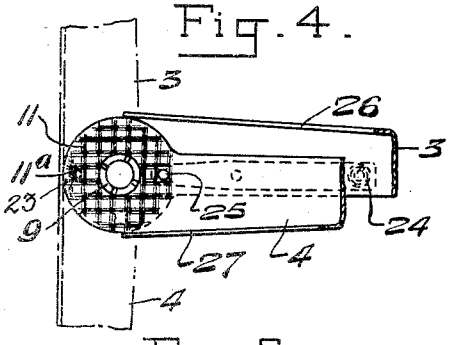


Fig. 5.

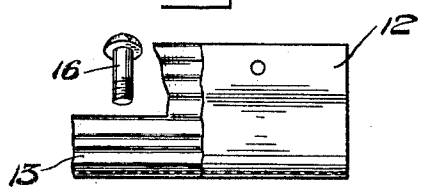
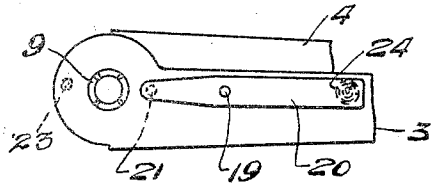
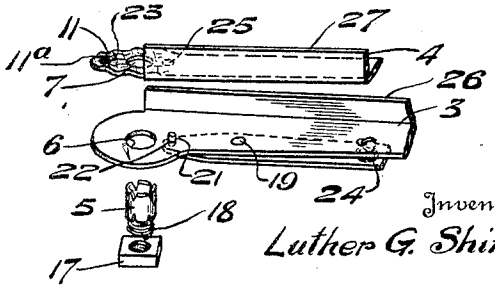


Fig. 6.





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Patented Jan. 24, 1928. 1,657,322

UNITED STATES PATENT OFFICE.

LUTHER G. SHINN, OF HOLDENVILLE, OKLAHOMA.

TURF-SMOOTHING DEVICE.

Application filed June 18, 1925. Serial No. 37,982.

The present invention relates to a surface smoothing device which is readily adapted to be attached to a golf club for permanent or temporary use. At the present time when it is necessary to replace the turf or to smooth the dirt surface, the driving end of the club is usually resorted to.

The present device is therefore designed to be constructed of an inexpensive light weight material such as aluminum, bamboo or pressed fibers in order that it may be fixed to the heel of the club and be in readiness for use. The lightness of the material is such that it does not affect the balance of the club and hence can easily be permanently attached thereto.

The invention further comprehends the provision of a simple, efficient construction and arrangement of parts and other features of novelty hereinafter more fully described, reference being had to the accompanying drawing which forms a part of this application and in which

Figure 1 is a side view of the scraper attached to the heel of a golf club and held in inoperative position.

Figure 2 is a side view of the scraper attached to the heel of a golf club and held in operative position.

Figure 3 is an enlarged top plan view of the scraper with the golf club removed.

Figure 4 is a plan view showing the arms pivotally assembled together.

Figure 5 shows an exploded view of the elements comprising the scraper and the manner of assembling.

Figure 6 is a bottom view of the scraper when in an inoperative position.

Figure 7 shows a modified form of assembling the scraper to the golf club.

Referring now more specifically to the drawing wherein corresponding numerals are used to designate similar parts in the different views, the numeral 1 designates a golf club to which a turf smoothing device denoted generally by the numeral 2 may be attached.

The smoothing device comprises complementary arms 3 and 4 pivotally connected by means of a hollow or tubed rivet 5 extending through recesses 6 and 7. This rivet is inserted through the recesses and then headed over at each end as shown at 9 and 10. The arm 4 is cross-grooved at 11 and 11^a in order that one set of grooves 11^a will engage with those provided in the club clamping means 12 when the arms are closed or drawn in as shown in Figure 4, and the other sets of grooves 11 will engage therewith when the arms are open or extended as shown by the dotted lines of this same figure. The open or extended position of the arms may be referred to as open position while their closed or drawn in position may be referred to as closed position.

To the above members are attached the clamping means 12 which is a light metal material bent into a U-shaped socket to engage the handle of the golf club. The bottom of the clamp socket will be grooved or corrugated at 13 where it engages with the cross grooves of arm 4 as above mentioned. The clamp will be securely gripped to the golf club by means of bolt 14 and nut 15 after bolt 16 has been inserted through said clamp and hollow rivet and secured by nut 17 whereby the clamp and arms are pivotally connected. There is preferably placed between arm 3 and nut 17 a spring 18 so that the members can be retained in adjusted position by the frictional contact of the engaging members.

There is pivotally attached at 19 to the arm 3 the latch 20 which latch member is provided at one end with the lug 21 of sufficient length to extend through the recess 22 of arm 3 and into the recess 23 of arm 4 in order to positively hold the arms in extended or operative position. Between the other end of the latch member and the arm 3 there is located a compression spring 24 that can be further compressed by placing the thumb upon the latch to release the lug from one of the recesses and which when released will automatically return the lug to engage the other recess. When the arms are closed to an inoperative position this lug on the latch member will engage with the recess 25 of the arm 4 to positively hold them in a closed position. While this latch mechanism may sometimes be desired in addition to the frictional holding means, it is understood that the same can be dispensed with, in which instance the frictional holding means will constitute the sole means for holding the arms opened or closed.

The arms 3 and 4 are preferably formed with the upturned flanged edges 26 and 27 respectively bent up from the body portion at about a 90 degree angle. This presents a smooth curvature and readily adapts the arms for smoothing purposes.

In the modified form of Figure 7, the smoothing device is attached to the heel of the golf club by means of a set pin 28 screwed into a socket formed in the club. This pin is prevented from working loose by means of the pin 29. Between the head of the pin 28 and the arms is placed the spring 30 functioning in a manner similar to spring 18 above described.

The operation and use of my device is made apparent from the above description. It can be permanently or temporarily clamped to a golf club and be in a convenient position to be used for smoothing over the surface on a golf course, the golf club serving as a handle. By the manner of attachment this is made possible without any injury being done to the club.

It is evident from the foregoing description and illustrations in the accompanying drawing that I have devised a new and useful device, one which is simple in construction and operation, durable and efficient in service, and one which can be cheaply manufactured and sold at a reasonable price, and one which will be a useful article upon the golf course.

It is obvious that while I have above described what I have found to be a very practical embodiment of my invention, the specific details of construction and configuration of parts described herein may be modified in various ways without sacrificing the advantages of the invention or departing from the scope thereof as defined in the appended claims.

What I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. A turf smoothing device comprising a plurality of arms pivotally connected, a handle fastening means secured to said arms, and a resilient means for actuating said arms in contact with the fastening means, thereby holding said arms in adjusted position.

2. A turf smoothing device comprising a plurality of arms pivotally connected, a handle fastening means pivoted to said arms, a resilient means for actuating said arms in contact with the fastening means to hold said arms in adjusted position, and a latch means for positively locking the arms.

3. A turf smoothing device comprising a plurality of arms, one of which is provided with cross grooves, a grooved handle fastening member, a pivotal means for attaching the arms to the handle fastening member, and means on the pivotal means actuating said arms against the surface of the handle fastening member, whereby corresponding grooves will interengage.

4. A turf smoothing device comprising a pair of arms pivoted together, a handle fastening member adapted to be detachably connected with a handle, means connecting said arms pivotally to said handle fastening member, and resilient means encircling the connecting means for securing said arms in a plurality of positions.

5. A turf smoothing device comprising a pair of arms pivoted to move in a plurality of positions, a handle fastening member adapted to be detachably connected with a handle, a bolt pivotally connecting said arms to said handle fastening member, a resilient means on the bolt engaging the arms, and a latch means on one of said arms to engage with the other arm for holding said arms in any one of the plurality of positions.

6. A turf smoothing device comprising a plurality of pivoted arms, a holding member adapted to be detachably connected with a handle for attaching the pivoted arms thereto, and a resilient means for actuating the pivoted arms against the holding member to frictionally contact the engaging surfaces of the holding member and arms.

7. A turf smoothing device comprising a plurality of arms, holding means adapted to be detachably connected with a handle for pivotally attaching said arms thereto, and resilient means encircling said holding means and contacting one of the arms to press said arms against a portion of said holding means.

8. As an article of manufacture, a turf smoothing unit comprising a pair of arms, a tubed member for pivoting said arms together and adapted to receive an attaching member, and means carried by one of said arms adapted to engage the other of said arms.

9. As an article of manufacture, a turf smoothing unit comprising a pair of arms each of which is provided with a recess in one end, a member inserted in said recess to pivot the arms together and adapted to receive an attaching member, and a latch provided upon one of said arms adapted to engage with the other of said arms.

In testimony whereof, I hereunto set my hand this 8th day of June, A. D. 1925.

LUTHER G. SHINN.