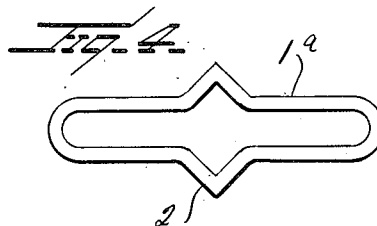
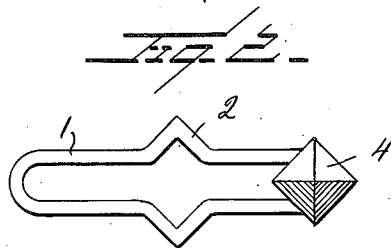
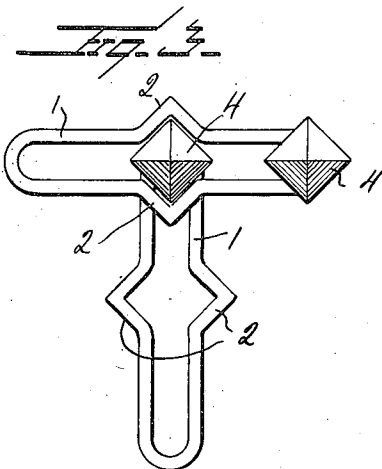


1,414,638.



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UNITED STATES PATENT OFFICE.

WALTER H. GROVE, OF TYRONE, PENNSYLVANIA.

TREAD MEMBER FOR ANTISKIDDING DEVICES.

1,414,638.

Specification of Letters Patent.

Patented May 2, 1922.

Application filed February 25, 1922. Serial No. 539,178.

To all whom it may concern:

Be it known that I, WALTER H. GROVE, a citizen of the United States, residing at Tyrone, in the county of Blair and State of Pennsylvania, have invented certain new and useful Improvements in Tread Members for Antiskidding Devices, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to certain improvements in tread members for anti-skidding devices and it is an object of the invention to provide a novel and improved device of this general character which can be readily
15 and conveniently assembled and effectively applied in working position.

Another object of the invention is to provide a novel and improved device of this general character embodying a plurality of
20 separable sections provided with means whereby said sections may be quickly and conveniently applied or separated and which is of particular advantage in replacing a section in the event the same should become
25 unduly worn or otherwise rendered unfit for use.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved tread member for anti-skidding devices whereby certain important advantages
30 are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to
40 describe the same with reference to the accompanying drawings, wherein:

Figure 1 is a view partly in section and partly in elevation illustrating a tread member constructed in accordance with an embodiment of my invention and in applied
45 position;

Figure 2 is a view in plan of one of the separable sections comprised in my improved tread member as herein set forth;

50 Figure 3 is a view in plan showing the relative arrangement of two adjacent sections in either connecting or separating said sections; and

Figure 4 is a plan view of an end section
55 as herein comprised.

As disclosed in the accompanying draw-

ings, M denotes a tread member in its entirety constructed in accordance with an embodiment of my invention and which is divided into a plurality of separable sections. 60 The major number of the sections 1 are constructed in duplicate while one of the end sections 1^a is of a different construction, the purposes of which will be hereinafter set forth. 65

Each of the sections 1 comprises an elongated loop formed of preferred material and which has its side members substantially in parallelism. The central portions of the side members of each of the loops are extended outwardly, as at 2, to provide opposed recesses, each of said recesses being substantially V-shaped in form with their apices oppositely directed. 70

An end portion of each of the sections 1 75 is provided with an upstanding shank 3 which is of a diameter substantially equal to the space between the side members of a section. The shank 3 terminates in a head 4 preferably pyramidal in form with the dimensions of its base in excess of the space between the parallel portions of the side members of a section 1 but readily insertible through the portion of the section provided with the recesses 2. 85

The margins of the base of the head 4 are preferably disposed on angles of substantially 45° with respect to the longitudinal axis of the section 1 so that in order to connect or separate coacting sections 1, 90 said sections must be turned into substantially right angular relation, as is clearly illustrated in Figure 3 of the accompanying drawings. When the adjacent or connected sections 1 are substantially longitudinally alined, the head 4 of one section will move to the end portion of the second section 1 remote from the end portion of said second section provided with the head 4 whereby adjacent sections are effectively 100 locked one to the other.

The section 1^a is of substantially the same construction as each of the sections 1 except that it is not provided with the out- 105 standing shank and associated head. The section 1^a and the section 1 remote therefrom are adapted to be connected or coupled to the side chains or members C by the links 5. Each of the links 5 has its opposite end portions provided with the split eyes 6, one of said eyes being inter- 110 locked with a side member or chain C and

the second of said eyes interlocked with a section 1 or 1^a as is believed to be clearly indicated in Figure 1. The returned portion of each of the eyes 6 at its free extremity is provided with an outstanding lug or tooth 7 which facilitates the desired bending of an eye 6 to either apply or remove a link 5.

In practice, with the use of my improved member M, and which are adapted to be employed in any number which is believed to best comply with the requirements of practice, the heads 4 will penetrate the roadway, or other surface, in a manner to materially increase the traction of the wheel and at the same time effectively serve to prevent slippage or skidding. The heads 4 also prolong the life of a member M as said heads compensate for excessive wear.

Should the head 4 of a section 1 become unduly worn or a section 1 in any way become unfit for use, the same can be readily and conveniently removed and replaced with a new section. This is of particular advantage in a device of this character.

From the foregoing description it is thought to be obvious that a tread member for anti-skidding devices constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:

1. A tread member for non-skidding devices comprising a plurality of inseparable sections, each of said sections being in the form of an elongated loop, the side member of each of the sections substantially midway of the length thereof being spaced apart a distance greater than the space between the remaining portions of the arms, the end portion of one of the sections being provided with a shank insertable through a second section and a head car-

ried by the outer end of said shank, said head being insertable through the increased space between the center portion of the side members of a second section, the major diameter being greater than the width between the remaining portions of the side members.

2. A tread member for a non-skidding device comprising a plurality of inseparable sections, each of said sections being in the form of an elongated loop, the side members of said loop at opposed points being extended outwardly to provide recesses, an end portion of said section having an outstanding shank terminating in a head, said head being of a size to be insertable through the increased space afforded by the recess and of a diameter greater than the width between the remaining portions of the side members.

3. A tread member for a non-skidding device comprising a plurality of inseparable sections, each of said sections being in the form of an elongated loop, the side members of said loop at opposed points being extended outwardly to provide recesses, an end portion of said section having an outstanding shank terminating in a head, said head being of a size to be insertable through the increased space afforded by the recess and of a diameter greater than the width between the remaining portions of the side members, said head being pyramidal.

4. A tread member for a non-skidding device comprising a plurality of inseparable sections, each of said sections being in the form of an elongated loop, the side members of said loop at opposed points being extended outwardly to provide recesses, an end portion of said section having an outstanding shank terminating in a head, said head being of a size to be insertable through the increased space afforded by the recess and of a diameter greater than the width between the remaining portions of the side members, said recesses being substantially V-shaped in form with the apices outwardly directed, the head being rectangular in form.

In testimony whereof I hereunto affix my signature.

WALTER H. GROVE.