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1,561,003

E. LELOUP

RAILWAY SCREW

Filed Aug. 17, 1922

Fig. 1

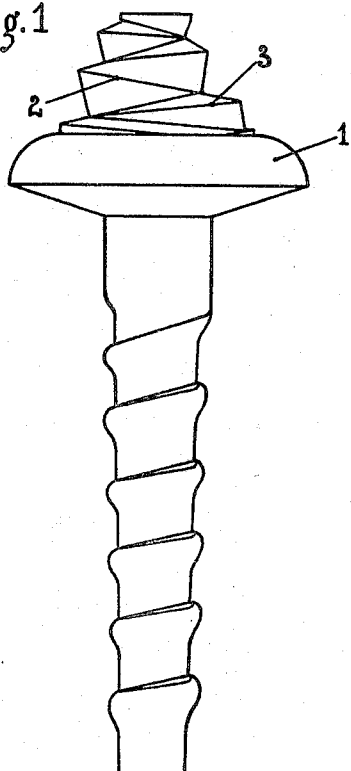


Fig. 2

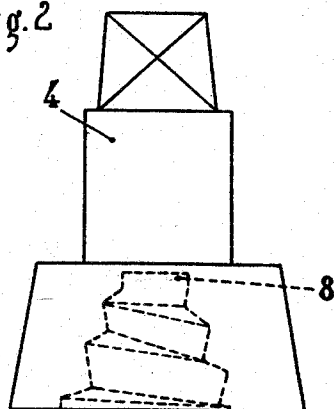


Fig. 3

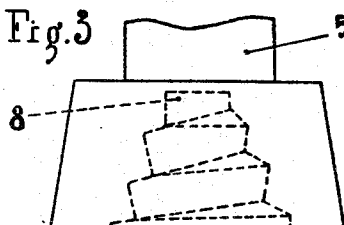


Fig. 5

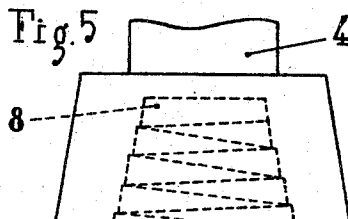


Fig. 6

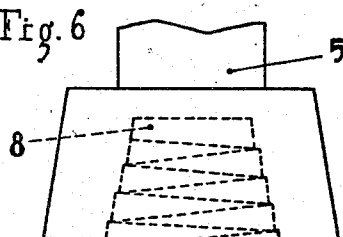
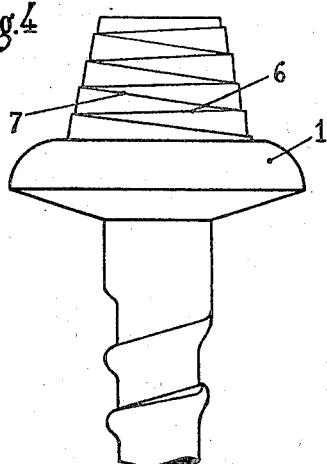


Fig. 4



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UNITED STATES PATENT OFFICE.

EMILE LELOUP, OF SERAING SUR MEUSE, BELGIUM.

RAILWAY SCREW.

Application filed August 17, 1922. Serial No. 582,479.

To all whom it may concern:

Be it known that I, EMILE LELOUP, a subject of the King of Belgium, residing in Seraing sur Meuse, Belgium, have invented certain new and useful Improvements in Railway Screws; and I do hereby 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, reference being had to the accompanying drawings, and to letters or figures of reference marked therein which form a part of this specification.

This invention relates to improvements in railway screws and has for its object to provide a screw of such type as to necessitate the use of a special tool in driving or removing the screw, whereby to minimize the possibility of unauthorized tampering therewith.

In the accompanying drawing wherein an approved embodiment of the invention is illustrated;—

Figure 1 is an elevation of the improved screws;

Figs. 2 and 3 are elevations of the tools utilized for driving and removing the screw illustrated in Fig. 1.

Fig. 4 is a fragmentary elevation of a modified type of screw, and

Figs. 5 and 6 are fragmentary elevations of wrenches used for driving and removing the modified type of screw illustrated in Fig. 4.

Referring to the drawing in detail, 1 indicates the head of a screw having an outer threaded shank, the head being surmounted by a substantially conical member 2 provided with both left and right hand screw threads 3.

A wrench 4 having a socket provided with internal left hand screw threads is adapted to be applied to the conical member 2 to facilitate the driving of the screw shank into a tie or other object, while the wrench illus-

trated in Fig. 3 designated at 5 having its socket provided with internal left handed screw threads, is adapted to be applied to the conical member 2 to facilitate the unscrewing or removal of the screw.

In the modification of the invention illustrated in Fig. 4, the conical member is provided with a double spiral profile right 6 and left 7. This type may be economically stamped out.

Wrenches 4 and 5 illustrated in Figs. 5 and 6 are provided for facilitating the application and removal of the modified type of screw shown in Fig. 4, and in order to prevent jamming of the end face of the socket wrench with the head 1 of the screw, the depth and diameter of both forms of inventions illustrated in Figures 2, 3, 5 and 6, is such as to arrest the axial movement of the socket wrench relative to the screw prior to the actual contact of the end face of said wrench with the adjacent face of the screw head 1. The recesses 8 at the bottom of the socket in the wrench is designed to prevent wedging of the relatively small end of the conical member of either form of screw in the socket.

What I claim is:

1. A screw including a threaded shank, a conical head carried by said shank and right and left hand screw threads formed on said head, the respective threads being adapted to cooperate with different types of wrenches to facilitate application and removal of the screw.

2. A screw including a shank having a screw thread extending in only one direction thereon, a conical head carried by said shank, and right and left hand screw threads formed on said head, the respective threads on the head being adapted to co-operate with different types of wrenches to facilitate application and removal of the screw.

In testimony that I claim the foregoing as my invention, I have signed my name.

EMILE LELOUP.