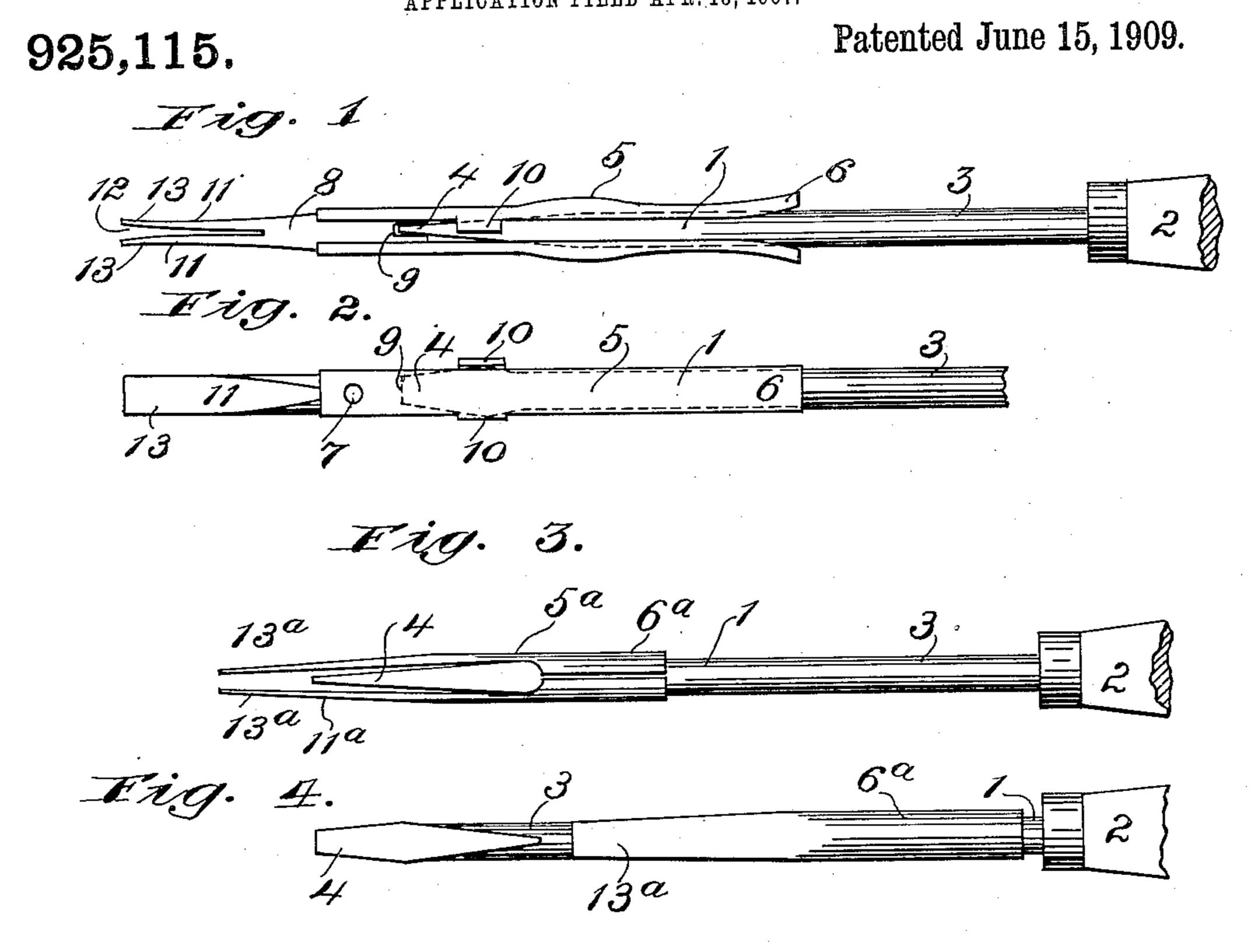
A. LOEWENBERG.

SCREW DRIVER.

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Patented June 15, 1909.



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By Joseph G. Parkinson,
Att's.

UNITED STATES PATENT OFFICE.

ALFRED LOEWENBERG, OF INDIANAPOLIS, INDIANA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO WILLIAM MEYER, OF CHICAGO, ILLINOIS.

SCREW-DRIVER.

No. 925,115.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALFRED LOEWENBERG, a citizen of the United States, residing at Indianapolis, in the county of Marion and State 5 of Indiana, have invented certain new and useful Improvements in Screw-Driver Attachments, of which the following is a specification.

It often happens that a screw has to be 10 driven in a locality that can be reached by gimlet and driver but which it is difficult or impossible to reach by the hand, or by thumb and forefinger, in such manner as to hold and steady the screw during the first 15 few twirls, until it has secured a firm bite; then the desirability of an auxiliary device for such purpose becomes apparent. Watchmakers, horologists and opticians, also, have to deal with screws of such minuteness that 20 they likewise feel the necessity for a driver that will initially hold the screw in position to be driven and impart to it the first few of the twirls, or even drive it home. To meet such wants or difficulties I have de-25 vised a driving attachment, for use with screws, which is adapted to be detachably carried upon an ordinary driver over the bit and to engage the head-slot or nick of the screw with sufficient frictional force to hold 30 said screw and aline it with the bore into which it is to be driven, during the incipient driving operation, and thereafter either to drive it home, as where the bore is constant, in watch and like work, or to be disengaged

35 and replaced by a bit of a regular driver. In the drawings: Figure 1 is an edge elevation, partly broken away, of an ordinary screw-driver, fitted with a removable attachment for the initial holding, alining and 40 driving of the screw; Fig. 2, an elevation of said driver, taken from the side, showing the bit of the screw-driver proper in dotted lines, and Figs. 3 and 4, edge and side elevations of an ordinary screw-driver, with an attach-45 ment for initial holding and driving telescopically fitted thereon.

Referring now to said drawings, the numeral 1 indicates an ordinary screw-driver composed of handle 2, shank 3 and bit 4, ⁵⁰ upon which, in Figs. 1 and 2, is fitted a removable attachment 5 for the initial holding and driving of the screw. This attachment is composed of two longitudinally scooped or troughed springs 6 adapted to embrace and firmly clip the shank of the drive. At

their outer ends these springs are secured by rivet 7 to a short cylindrical block 8 of about the diameter of said shank and slotted at 9 to snugly receive the bit of the driver. The springs also have keepers 10 to embrace the 60 edges of the bit, so that when the springs are slipped upon the shank and the point of the latter inserted into the slot 9, the parts will interlock and the attachment become a rigid continuation of the driver proper. The 65 outer end of the block has beveled faces 11 and is slitted at 12 to form bit-like springs 13 which, when compressed together, will form or provide a provisional bit capable of being inserted into the nick or notch of a screw- 70 head, and will then, by expansion, hold the screw by frictional grip until it has been inserted into the hole and sufficiently driven to insure a firm bite. The driver and attachment can then be withdrawn, the attach- 75 ment slipped off of the driver, and the latter used to force the screw home.

In the construction indicated in Figs. 3 and 4, the attachment 5° telescopes upon the shank 3 of the driver proper. Instead of 80 being formed with two clamping springs to embrace the shank of the driver, as in the first example, it has a split spring sleeve 6ª which takes over said shank, and from which are continued integrally the flattened 85 holding and driving bit-springs 13a, which, when pressed together for insertion into the nick of the screw-head, clamp against or engage with the bit of the driver proper, preserve the alinement, enable said bit to whirl 90 the provisional bit, and with it the screw, positively, and by receiving the thrust of said wedge-shaped regular bit, are caused to grip the screw-head with greater force than that due to their resiliency alone. When 95 the screw has been set in position the driver and attachment will be withdrawn and the attachment then pushed back upon the shank, toward the handle of the driver, to expose the bit proper, as in Fig. 4, by which 100 latter the screw will be driven home. This attachment is also removable.

I claim—

1. The combination with an ordinary screw-driver having a permanent unmuti- 105 lated blade, of a provisional driving bit locking therewith to be positively driven thereby, and detachable therefrom, and composed of a spring clamp to clip the spindle of the driver and two bit-springs adapted to be 110 contracted and inserted into the nick of a screw-head and to lock therein when ex-

panded.

2. The combination with an ordinary 5 screw-driver having a permanent unmutilated blade, of a provisional driving bit detachable therefrom, constructed to engage the bit of the driver proper and be positively driven thereby, and having a spring clamp to grip the spindle of the driver and two bit-springs adapted to be engaged with the nick of a screw-head and lock therein.

3. In combination with an ordinary screwdriver having a permanent unmutilated 15 blade, a provisional bit attachable to and detachable therefrom, comprising a spring clamp to grip the spindle of the driver, a block nicked to receive the bit of the driver, and two bit-springs projecting forward from 20 said block and adapted, when compressed, to be inserted into the nick of a screw-head and to lock therein when permitted to expand.

4. A provisional bit, attachable to and de-25 tachable from an ordinary screw-driver having a permanent unmutilated blade, and

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comprising a spring clamp to grip the spindle of the driver, and a block to which said clamp is attached, said block being nicked for the reception of the bit of the driver 30 proper, and also being provided with forwardly beveled faces with a slit between to form two bit-springs adapted, when compressed, to be inserted into the nick of a screw-head and to lock therein when per- 35

mitted to expand.

5. A provisional bit comprising troughed springs 6, adapted to fit over and clamp the spindle of a regular, ordinarily constructed screw-driver having unmuti- 40 lated blade, keepers 10 on said springs, and the cylindrical block 8, slotted at 9 to receive the bit of the regular driver, beveled at 11 and slitted at 12 to provide bit-springs 13 adapted, when compressed, to be inserted 45 into the nick of a screw-head and to lock therewith when permitted to expand.

ALFRED LOEWENBERG.

Witnesses:

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