Dec. 30, 1924.

1,521,310

C. F. MORAN

COMBINATION TOOL CASE

Filed March 15, 1923

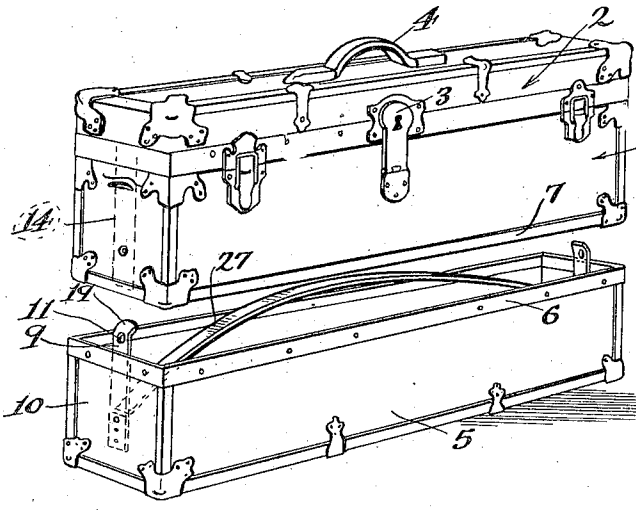


Fig. 1.

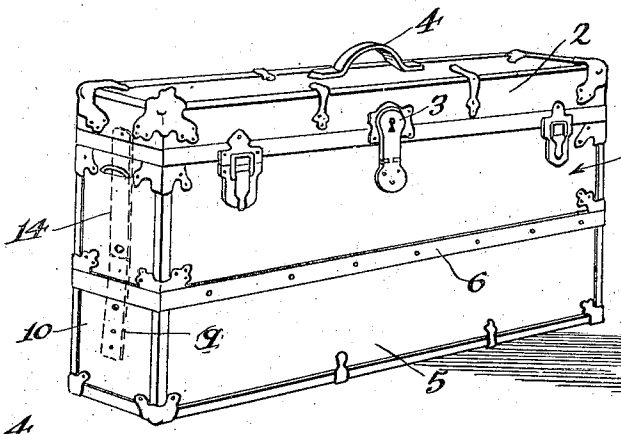
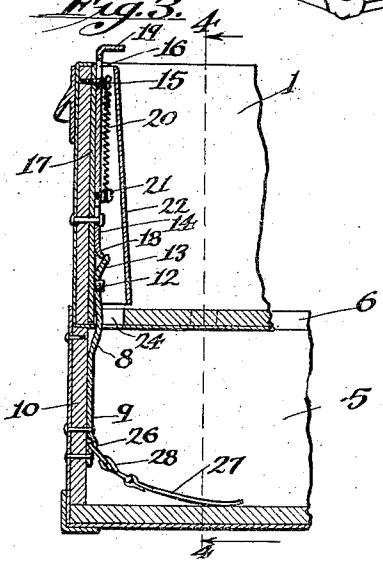


Fig. 2.

Fig. 3.



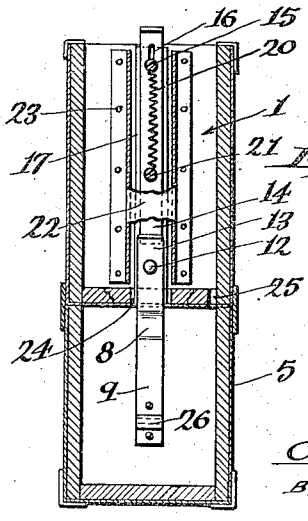


Fig. 4.

Inventor.
CLYDE F. MORAN.
By Hazard and Miller
Attorneys

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UNITED STATES PATENT OFFICE.

CLYDE F. MORAN, OF SOUTHGATE GARDENS, CALIFORNIA.

COMBINATION TOOL CASE.

Application filed March 15, 1923. Serial No. 625,234.

To all whom it may concern:

Be it known that I, CLYDE F. MORAN, a citizen of the United States, residing at Southgate Gardens, in the county of Los Angeles and State of California, have invented new and useful Improvements in a Combination Tool Case, of which the following is a specification.

My present invention is a combination tool case, suitable for use by mechanics and others and preferably comprising an upper or main section, and a lower section which may be removably connected therewith, or quickly detached.

It is an object of my invention to provide a case commodious enough to carry all the tools that may be necessary for a workman to use on a big job, but which may be separated into a main compartment, which may be locked and left in any safe place, and a compartment or section which may be used as a light hand or shoulder box for a "tinkering" job, the two sections being provided with interior or concealed means by which they may be optionally interconnected, so as to be carried as a single unit.

It is a further object of my invention to provide a construction of the general character referred to in which the mere placing of the upper section upon the lower section will suffice to lock the two together; and in my preferred construction I provide the upper section with a cover which may be locked shut, and I also provide on the inside of the upper section a means for releasing the lock by which the two sections are or may be connected.

Further objects of my invention will appear from the following description of one preferred embodiment thereof, and the appended claims, taken in connection with the accompanying drawings, in which—

Fig. 1 is a perspective view showing the separate sections of my case, the upper section being adapted to close the lower and to be automatically locked thereto.

Fig. 2 is a similar view showing the two sections locked together.

Fig. 3 is a vertical section of one end of my case, showing means by which the sections are locked together, the cover of the upper section being omitted.

Fig. 4 is a vertical section on the line 4—4 of Fig. 3.

In the form of my invention shown in the drawings, 1 is an upper section of a carrying case, this section being shown as provided with a cover 2, preferably pivoted thereto and provided with a lock 3 and with a handle 4; and 5 is a lower section shown as provided with an upstanding metallic rim 6 adapted to fit closely over the outside of a corresponding rim 7 on the bottom of the upper section, to which the lower section may be releasably secured by any suitable means.

In the form of my invention shown, I have provided securing means in the form of a spring bar 8, shown as secured by the rivets 9 extending through the end wall 10 of the lower section referred to and provided at its upper end with an aperture 11, within which a fixed pin or stud 12, on the corresponding wall of the upper section, is adapted to cooperate in securing the two sections together. It should be understood that locking means of the character here referred to are preferably employed at both ends of my case, and that the bars 8 are sufficiently resilient so that, when the upper section is let down upon the top of the lower section, the inclined surface 13 of each of the bars 8 is engaged by the fixed pin 12, and that these pins snap into the respective apertures provided therefor as soon as the upper section is lowered into its final position.

In order to permit the separation of the two sections only when the upper section has been unlocked and opened, I provide on the inside of the upper section a sliding cam plate 14, which may be secured by any suitable means such as the screws 15 extending through slots 16 therein and through fixed bearing plates 17, adjacent the respective end walls, the lower end of each of the cam plates 14 being provided with a deflected terminal portion or cam 18, adapted to engage the inclined surface of a bar 8, and to release the same from engagement with a pin 12. The upper end of each of the cam plates 14 is shown as provided with a recurved extension 19, by which the same may be grasped when the two sections of my case are to be separated; but it will be understood that the respective cam plates 14 are normally held in elevated position by means such as the springs 20, which may be secured at one end to the mentioned screws 15, and, at the other end, to the screws 21, extending into the plates 14.

I may optionally provide a guard plate

22, preferably formed of heavy sheet metal and secured by means such as the rivets 23, to protect the releasing means above described from accidental injury. It being understood that the upper and lower sections of my case may be of substantially the same outside diameter, in order to permit the respective spring bars 8 to extend upward into engagement with the fixed pins 12, I may provide apertures 24, in the bottom of the upper section of my case; and I may also provide any desired additional apertures 25, to permit any tool of unusual shape, such as a carpenter's square, to extend from the lower compartment or section of my case into the upper compartment or section. In order to facilitate the carrying of the lower section 5 as a shoulder box, I find it advantageous to provide an offset 26 in each spring bar 8, and to employ D-rings, extending through such offsets, to removably secure a shoulder strap 27 by means of snaps 28; and when the two sections are to be secured together and carried by means of the handle 4, I may optionally employ the strap 28 as an additional means firmly to secure the two sections together.

Further embodiments, modifications and variations may be resorted to within the principle of the invention.

What is claimed is:

1. In a case, a lower section open at the top, an upper section adapted to close the opening in said lower section, interior means, adapted to extend from one section into the other section, to secure said sections together, and means, accessible from within said upper section, for releasing said securing means, said upper section being provided with a cover, and said releasing means being provided with a guard.

2. In a case, a lower section open at the top, an upper section adapted to close the opening in said lower section, interior means, adapted to extend from one section into the other section, to secure said sections together, and means, accessible from within said upper section, for releasing said securing means, said releasing means comprising a cam.

3. In a case, a lower section open at the top, an upper section adapted to close the opening in said lower section, interior means, adapted to extend from one section into the other section, to secure said sections together, and means, accessible from within said upper section, for releasing said securing means, said releasing means comprising a sliding plate.

4. In a case, a lower section open at the top, an upper section adapted to close the opening in said lower section, interior means, adapted to extend from one section into the other section, to secure said sections together, and means, accessible from within said upper section, for releasing said securing means, said releasing means comprising a sliding plate provided with resilient means for returning the same.

In testimony whereof I have signed my name to this specification.

C. F. MORAN.