To all whom it may concern:

Be it known that Warren H. Taylor, deceased, late of Stamford, in the county of Fairfield and State of Connecticut, invented certain new and useful Improvements in Armor for Pin-Tumbler Locks; and hereby declared 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.

The invention relates to an improvement in cylinder locks of the pin tumbler type, and is designed particularly as an improvement on the construction disclosed in the Patent No. 874,608 granted to the Yale & Towne Manufacturing Company December 24th, 1907.

In the patent, a hardened steel pin is inserted in the cylinder in advance of the drivers, and in the plug in advance of the pins. Such construction necessitates the employment of a cylinder and plug, longer than the standard sizes now in general use, or the abandonment of at least one pin and its driver.

The object of this invention is to provide means for protecting the pins and drivers of a pin tumbler lock from a boring tool, by hardened steel inserts located respectively in the escutcheon of the cylinder and the portion of the plug that is within the escutcheon of the cylinder, so as not to interfere with the normal number of pins and drivers in a standard size lock.

With this end in view the invention consists in the details of construction as will be more fully explained and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in front elevation of a pin tumbler lock embodying the invention; Fig. 2 is a front elevation of the cylinder partly broken away to show the hardened steel inserts; Fig. 3 is a view in vertical longitudinal section of Fig. 2; Fig. 4 is a view in elevation partly in section of the plug and Fig. 5 is a view in section of the latter on the line a—a.

1 represents the cylinder provided at its front end with a face plate or escutcheon 2 which is of greater diameter than the cylinder, and 3 is the plug, the cylinder and plug being of standard or normal size and provided with the usual number of pin drivers, not shown.

Located within a cavity formed in the escutcheon or face plate of the cylinder is a hardened steel insert or armor 5, which, in the present instance, is composed of two pins, the combined thickness of which is sufficient to cover and protect the drivers and pins at the rear of the same. The recesses for these pins is closed at the top and opens at the bottom into the chamber in which the plug 2 is mounted, so that when the plug is in position in the lock, the steel armor or inserts will be held in place by the plug, and as the armor is of less length than the diameter of the plug opening in the cylinder, it can be introduced through said opening, and be held in place by the plug.

The plug 3 is provided adjacent its outer end with a slot, which, in the present instance extends through the plug throughout the diameter of the latter for approximately half the height of the plug, as clearly shown in Fig. 5, and is continued upwardly centrally through the plug in the vertical plane of the key slot and also in a plane in front of the locking pins in the plug. This slot receives the hardened steel plate 4 which latter is shaped to conform to the slot in the plug, and is held therein by the pins 5 which are passed through the face plate of the plug, through the steel armor and into the plug at the rear of the slot. This plate is provided with a key slot with which the key must conform before it can enter the plug.

With this construction the hardened steel armor protects the pins and drivers from a boring tool at the front, without taking up any of the tumbler room and without increasing the length of the cylinder, and also without using any exposed steel at the outer end of the cylinder or plug, which would interfere with the finish and also rust from exposure.

It is evident that many slight changes might be resorted to in the relative arrangement of parts shown and described without departing from the spirit and scope of the invention. Hence it is desired to have it understood that it is not wished to be confined to the exact construction and arrangement of parts shown and described but,
Having fully described the invention what is claimed as new and desired to be secured by Letters-Patent, is:

1. As a new article of manufacture, a pin tumbler lock having a protecting armor located within the face plate of the cylinder and wholly in advance of the tumbler space.

2. As a new article of manufacture, a pin tumbler lock, the cylinder of which is provided with a recess closed at its top and communicating with the cylindrical opening in which the plug rests and turns, and an armor located within said recess.

3. In a pin tumbler lock, a cylinder, a plug therein, the said plug having a slot adjacent its outer end in advance of the tumbler space, a hardened steel armor plate in said slot, and means for locking said plate within the slot, the said plate having a key slot for the passage of a key.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

VIRGINIA B. TAYLOR,
Executrix of the last will and testament of Warren H. Taylor.

Witnesses:
GRACE I. HARDING,
SCHUYLER MERRITT.