1,515,752 Nov. 18, 1924.

C. L. RANDOLPH

AUTOMOBILE LOCK

Filed April 11, 1922

2 Sheets-Sheet 1





INVENTOR CHESTER LIVINGSTON RANDOLPH

39

ហ

BY Even Martis

ATTORNEY

:

-

ţ.

ଲ⊺ ፋ∩ 1ሸንባለ

Nov. 18, 1924.

C. L. RANDOLPH

AUTOMOBILE LOCK

Filed April 11, 1922 2 Sheets-Sheet 2

1,515,752



INVENTOR CHESTER LIVINGSTON RANDOLPH

BY Country Curtis

ATTORNEY

· .

UNITED STATES PATENT OFFICE.

CHESTER LIVINGSTON RANDOLPH, OF COS COB, CONNECTICUT, ASSIGNOR OF ONE-FOURTH TO CHARLES W. RAYMOND, OF COS COB, CONNECTICUT; ONE-FOURTH TO JULIUS M. ULRICH, OF GREENWICH, CONNECTICUT; AND ONE-FOURTH TO CLAR-ENCE E. PALMER, OF RIVERSIDE, CONNECTICUT.

AUTOMOBILE LOCK.

Application filed April 11, 1922. Serial No. 551,547.

To all whom it may concern:

⁵ field and State of Connecticut, have invent- therein 14, 15 and 16. Both the said collar specification.

Patented Nov. 18, 1924.

10 and its objects are effectively to lock the is shaped to receive one end of the cylinder steering post in position, to prevent and 19, set screw 20 being provided to secure to simplify and render more effective the covered by the dash board 10. Within the

automobile, and in providing mechanism ing limited by reason of the slot 22 within apart therefrom actuating a longitudinally the sleeve 19 and the pin 23 secured to said 20 moving rod engaging with said segment and rod 21 extending through said slot. The

mount the collar 11, which is secured there-Be is known that I, CHESTER LIVINGSTON to by means of the set screw 12. Integral 55 RANDOLPH, a citizen of the United States, with said collar is the segment 13, which is residing at Cos Cob, in the county of Fair- preferably constructed with three grooves ed new and useful Improvements in Auto- and segment are located within the housing mobile Locks, of which the following is a 17 which is secured by means of cap screws 60 39 and 40 to the dash board 10. Integral My invention relates to automobile locks, with the housing 17 is the socket 18 which guard against the breaking of the locking the same therein. The set screw 20 is pref-65 device or the disassociation of its parts, and erably located so that the head thereof is ¹⁵ operation of the several parts. sleeve 19 is located the locking rod 21 ar-My invention primarily consists in mount- ranged to reciprocate to a limited extent ing a segment upon the steering post of an therein, the extent of said reciprocation be- 70 serving to lock the same against rotation, outer end of the pin 23 is located in the anall normally accessible parts of the locking nular slot 24 of the sliding collar 25, to 75 devices being enclosed in casehardened hous- which is secured the foot lever 26. A spring 27 located between said collar 25 and the My invention further consists in the im- collar 28 which is secured to the sleeve 19, provements and novel constructions herein- serves to normally cause the sleeve 25 to be after described and claimed. located in its uppermost position, at which 80 Attention is hereby directed to the accom- time the pin 23 will be situated at the upper panying drawings in which similar numerals part of the slot 22. The upper portion of 29 which is integral with the lock chamber Figure 1 is a side elevation, partly in sec- 30. Preferably the upper end of said sleeve s5 to become dislocated from said socket 29. Fig. 2 is a front view of the lock chamber; The lock chamber 30 is preferably lo-Fig. 3 is a longitudinal section on line cated within the cowl 31 and beneath the 3-3 of Fig. 2, looking in the direction of cowl dash 32. Preferably the face plate 33 90 of the lock chamber 30 is made of case-Fig. 4 is a longitudinal section of the hardened material and is secured to the means of screws 35, the heads of which are

1,515,752

ings.

25

30 of designation refer to similar parts through- the sleeve 19 is located within the socket out the several views: .

tion, of my improved locking mechanism 19 should be slightly peened over so as not and adjacent parts;

35 👘 the arrows;

40 locking rod housing adjacent to the foot flange 34 integral with the chamber 30 by lever;

Fig. 5 is a section of the locking clutch located on the underneath portions thereof, 95 housing looking in the direction of the ar- Provision is also made within the chamber rows on line 5—5 of Fig. 1, and Fig. 6 is a section of Fig. 1 on line 6—6 actuated by the key 37 and is provided with 45thereof looking in the direction of the ar- the bolt 38. All of the normally accessible parts of the said locking device are made of 100 rows. Referring to the accompanying drawing, casehardened steel or other suitable material adjacent to the steering column 7 of an which is impervious to the action of hack-50 automobile, and preferably above thereof, saws, files or the like. Thus, for example I locate my improved locking mechanism 8. the plate 33 and the sleeve 19 are made of Upon the steering post 9 at the lower por- casehardened material, so that any person 105 tion thereof outside of the dash board 10 I desiring to obtain access from the outside

1,515,752

of the locking chamber 30 or desiring to scope of my invention to the preferred and saw off a section of the sleeve 19 would precise form here shown, since, as is obvious, find it impossible so to do.

To operate my improved locking device, 5 the foot lever 26 is pressed downwardly, thereby causing the rounded lower end 39 of the locking rod 21 to be forced into one of the recesses 14, 15 and 16 of the segment 13. In order to accomplish this the wheels 10 of the car should be turned either straight ahead or at an angle of 45 degrees either one way or the other. Upon the wheels being in from said steering post, means on said lat-proper position the rounded end 39 of the eral extension with which said rod directly lock rod 21 will slide into one of said re- engages to lock the steering post against ro-15 cesses and the car will be locked, the bolt 38 being a spring bolt and sliding into position behind the upper end of the rod 21. Upon the bolt 38 being released by the key 37 the locking rod 21 will spring back into the po-20 sition shown in dotted lines in Figs. 1 and 3 when the key 37 may be turned and the bolt 38 locked out of position, or the bolt 38 may be left resting upon the surface of the lock- tation, and means to lock said rod in its efing rod 21 ready to slide into position upon fective locking position. 25 the operation of the foot lever 26. 3. In an automobile locking device, a ro- 90 struction are greatly increased by having the on said post and rotatable therewith and operative parts securely housed within case- having a recess therein, a sliding rod mounthardened material. None of the parts of ed on the automobile apart from said steer-30 my locking device can readily be broken ing post and having one end thereof adapted 35 apart either by cunning or violence when to engage in said recess, and authorized conthe car is locked in any of the three posi- trolled locking mechanism for locking said tions above referred to. In the first place rod when in engagement with said recess. the screw heads securing the cover to the 4. In an automobile locking device, a ro-35 lock chamber are in such a position that tatable steering post, a segment fast on said 120 they are practically inaccessible, so that it post and having recesses therein, a locking is impossible to remove such cover, except rod slidably mounted upon said automobile by grinding off the rolled in edge of the apart from said steering post and arranged plate; secondly, the locking rod housing or to have one end thereof engage with one of is fully protected against hack-saws or files lock operatively connected with the other and the like. Then again, the ends of the end of said rod and arranged to lock the sleeve 19 are protected against dislodgment, same in position when said rod is in enthe upper end by being peened over within gagement with said recess, and housings for sleeve being secured by a binding screw parts rendering the same inaccessible to exwithin the lower socket, the head of which fernal violence when the same are in a locked is hidden within the dash board. Neither position. is it feasible to obtain access to the housing -5. In an automobile locking device, a ro-

various changes and modifications could be made without departing from the spirit of my invention. What I claim and desire to secure by Letters Patent is,—

70

1. In an automobile locking device, a rotatable steering post, a lateral extension fast on said post and rotatable therewith, a slid- 75 ing rod mounted on said automobile apart S0tation. 2. In an automobile locking device, a rotatable steering post, a lateral extension fast on said post and rotatable therewith, a sliding rod mounted on said automobile apart from said steering post, means on said lat- 85 eral extension with which said rod directly engages to lock the steering post against ro-The advantages of my improved con- tatable steering post, a lateral extension fast 40 sleeve in which the locking rod reciprocates said recesses when in operative position, a 105 45 the upper socket and the lower end of the covering said segment and said operative 110 50 17, it not being possible to bring any vio- tatable steering post, a lateral extension fast 115 lence to bear directly against the segment on said post and rotatable therewith, a slid-13 or adjacent parts in any way except to ing rod mounted on said automobile apart force the members within the housing closer from said steering post, means on said lattogether and in any event preventing their eral extension with which said rod directly

55 dis-association Neither is it possible to op- engages to lock the steering post against ro- 120 erate upon the collar carrying the foot lever tation, means to lock said rod in its effective in such a manner as to destroy the op- locking position, and a manually operable eration of the lock. If desired all of the handle portion on said rod, and means norhousings for the operative parts may be mally urging said rod from its effective lock-125 60 made of casehardened material, in order to ing position. protect the same against breakage and ex- $\tilde{6}$. In an automobile locking device, the combination with a rotatable steering post, ternal violence.

While I have described the construction the dash board and cowl instrument board and operation of my invention as above de- of an automobile, of a lateral extension fast 65 scribed, I by no means desire to limit the on said post at a point adjacent said dash 130

1,515,752

board and movable with said post, a movable arranged to maintain said rod in its effective bolt mounted on said automobile apart from locking position with said element against an said steering post and extending from said unauthorized operation. dash board to said instrument board, and 9. The herein described article of manu- 35 arranged to engage with said extension, a facture for locking steering gears of autohoused locking mechanism on said instru- mobiles comprising a casing to be attached ment board to lock said bolt in engagement to the steering column of an automobile, an with said extension, and housing enclosing element in one end of said casing to be se-10 substantially inaccessible to external break- said column, and to extend laterally thereage.

said bolt and extension to render the same cured to the rotatable steering post within 40 from, a tubular housing projecting from 7. A device as set forth in claim 6 further said casing, a locking mechanism in the free characterized by a lateral extension on said end of said tubular housing, a rod slidably locking bolt projecting through the housing mounted in said tubular housing and ex- 45 said element, means on said rod and extending through said tubular housing whereby the latter can be actuated and moved into facture for locking steering gears of auto- engagement with said element to prevent ro- 50 ing said rod in its effective locking position said column and to extend laterally there- ized operation, and a spring on said tubular 55 said rod out of engagement with said element.

15 in the latter and spring means normally urg- tending between said locking mechanism and ing said lock bolt from engagement with the lateral extension on said post.

8. The herein described article of manu-20 mobiles comprising a casing to be attached tation of said steering post, said locking to the steering column of an automobile, an mechanism including a detent for maintainelement in one end of said casing to be secured to the rotatable steering post within relative to said element against an unauthor-²⁵ from, a locking mechanism at the other end housing normally urging and maintaining portion of said casing, a rod slidably mounted in said casing, and extending between said locking mechanism and said element, means for moving said rod into engagement 30 with said element to prevent rotation of said steering post, said locking mechanism being

In testimony whereof I have hereunto set my hand this 7th day of April, 1922.

CHESTER LIVINGSTON RANDOLPH.

.