

D. D. PEEBLES & A. R. THOMPSON.  
SPARKING DEVICE.

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917,651.

Patented Apr. 6, 1909.

Fig. 1.

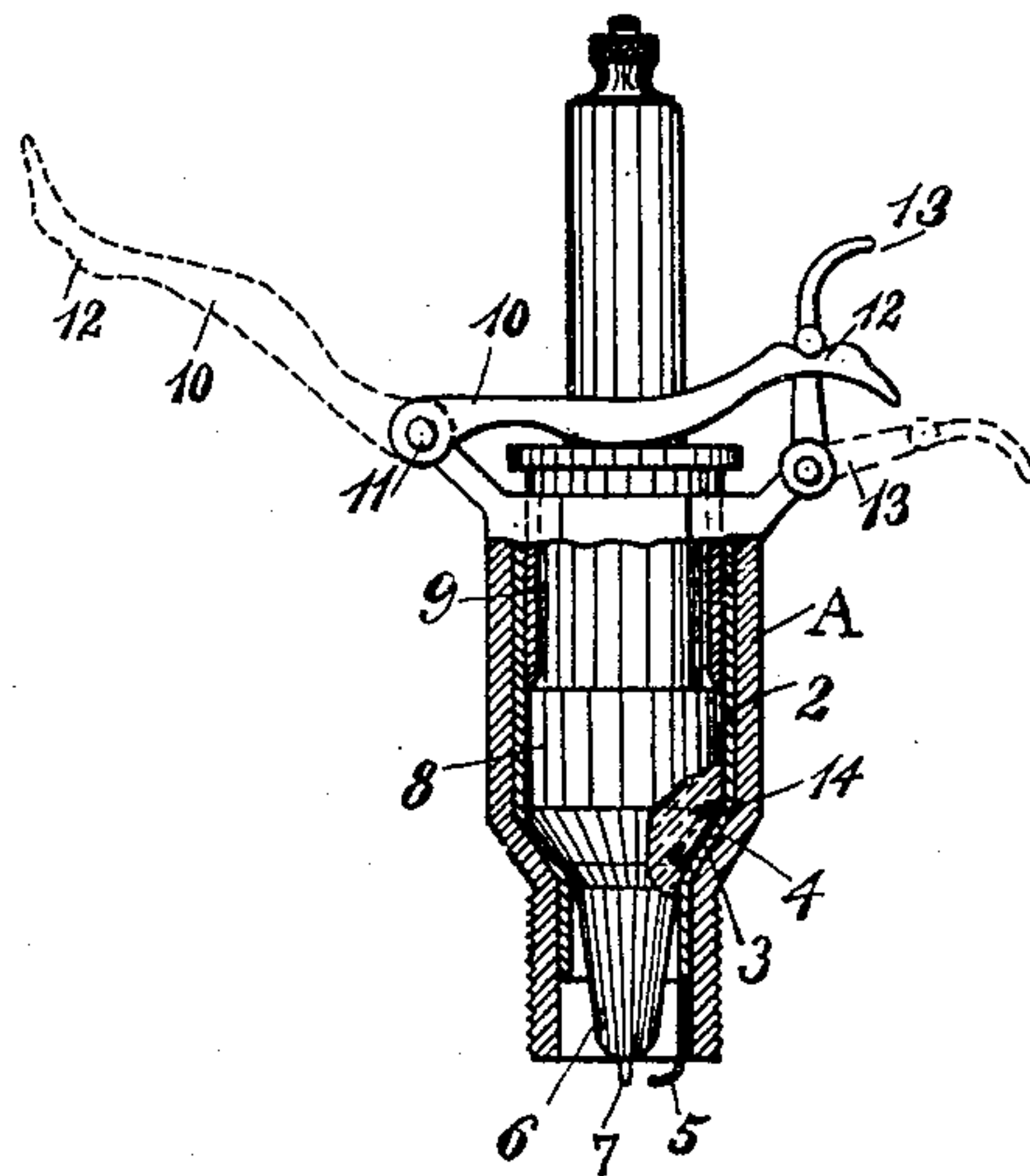
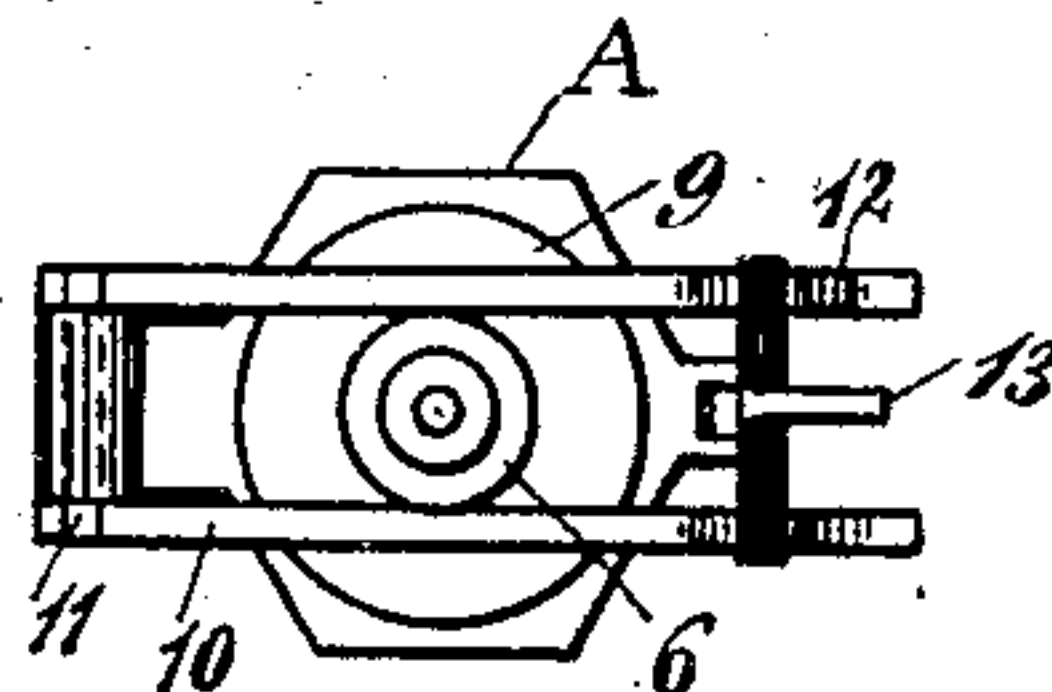


Fig. 2.



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# UNITED STATES PATENT OFFICE.

DAVID D. PEEBLES AND ALBERT R. THOMPSON, OF SAN JOSE, CALIFORNIA.

## SPARKING DEVICE.

No. 917,651.

Specification of Letters Patent.

Patented April 6, 1909.

Application filed October 24, 1908. Serial No. 459,302.

*To all whom it may concern:*

Be it known that we, DAVID D. PEEBLES and ALBERT R. THOMPSON, both citizens of the United States, residing at San Jose, in the county of Santa Clara and State of California, have invented new and useful Improvements in Sparking Devices, of which the following is a specification.

Our invention relates to igniting devices of the jump-spark variety, for use in automobile and other gas engines.

The object of the invention is to provide a simple practical means for quickly removing, cleaning or inspecting the spark plug at any time, and without the use of any screws, or any screw movement of any of the parts.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a part elevation and part sectional view of a sparking device embodying our invention, Fig. 2 is a top plan view of the same.

A represents a socket member adapted to be screwed or otherwise suitably secured in the cylinder.

2 is a metal sleeve adapted to be slipped inside of the socket, and having a reduced lower end with a shoulder portion 3 seating on a corresponding shoulder or ledge 4 on the inside of the socket. A contact member 5 is carried by the sleeve and is grounded.

6 is a porcelain core carrying a complementary contact member 7 and adapted to be slipped inside the sleeve and provided with a central bulge 8, the lower portion of which forms a shoulder to seat on the inside of the shoulder 3 of the sleeve 2.

9 is a bushing fitting over the insulated plug 6 and resting on the top of the shoulder or bulge 8, and having its outer head portion projecting a little beyond the outer end of the socket member A.

10 is a bifurcated latch member pivoted to the socket member A at 11, and adapted to straddle the plug 6 and to rest upon the outer end or head of the bushing 9. The ends of the latch member 10 are provided with suitable cam surfaces 12, with which a hinged latch member 13 is adapted to engage.

With the parts assembled as shown, the device is ready for use.

The sleeve 2 forms a tight joint at 4 and provides a good seat for the porcelain core.

If desired, the porcelain core may be provided with an annular steel seat 14 to impinge on the inside of the shoulder 3. This steel seat 14, when ground into the plug, does away with the need of any copper washers, and provides a tight seat that will not yield or open when pressure comes on it.

To remove the plug 6, in order to get at either of the contacts 7—5, it is only necessary to trip the catch 13, lift the latch 10, and withdraw the loose bushing 9; whereupon the plug comes out readily.

By this method of construction the plug is held in place entirely without the use of screws, or any screw or turnable part.

Having thus described our invention, what we claim and desire to secure by Letters Patent is—

1. In a sparking device, the combination of a socket member adapted to be secured in the cylinder, an insulated removable contact member fitting the socket, a bushing fitting loose over this insulated contact member and fitting loose in said socket member, and a clamping means carried by said socket member and engaging the bushing to lock the parts in assembled operative position.

2. In a sparking device, the combination of a socket member having a reduced lower end, a metal sleeve seating in the socket, an insulated removable contact member seating in the sleeve, said sleeve having a complementary contact member, a bushing fitting in the sleeve and seating on the insulation



of the contact member, and a clamp engaging the bushing to lock the parts in assembled operative position.

3. In a sparking device, a socket member,  
5 a porcelain plug carrying a contact member seating inside the socket and having an annular bulge, the porcelain plug provided with an annular metallic seating portion, a  
10 bushing slipped over the plug and seating thereon with its outer end projecting beyond the socket, and a hinged clamping device carried by the socket and acting on the bushing to lock the parts in assembled operative position.

In testimony whereof we have hereunto 15 set our hands in presence of two subscribing witnesses.

DAVID D. PEEBLES.  
ALBERT R. THOMPSON.

Witnesses as to the signature of David D. Peebles:

LEILA ELINOR PEEBLES.  
ROBERT R. SYER.

Witnesses as to the signature of Albert R. Thompson:

C. P. DORN,  
C. O. DURRAN.