UNITED STATES PATENT OFFICE.

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POINT FOR ELECTRICAL CONTACTS OF IGNITION APPARATUS.

1,362,455. Specification of Letters Patent. Patented Dec. 14, 1920.

No Drawing. Application filed October 23, 1919. Serial No. 332,797.

To all whom it may concern:

Be it known that we, LEO T. WALLEN and FREDERICK F. WALLEN, citizens of the United States, and residents of Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Points for Electrical Contacts of Ignition Apparatus, of which the following is a specification.

This invention relates to an improved point for contacts used in various places, but particularly adapted for use in connection with ignition apparatus, where constant vibration and application of current quickly destroys the usefulness of contacts as now made. This is particularly disadvantageous, since most contacts are relatively expensive to make, containing not only expensive ingredients, but they are manufactured in a manner to make their assembling slow and expensive and subject to much wastage and delay.

In our improved points for contacts we have one that is more durable under ordinary or hard usage, that provides for a spark of higher temperature and when used in the ignition apparatus of an engine permits a lower throttling of the engine than is possible with an ordinary contact as now made.

In our improved contact we provide an alloy which consists of nickel, silver and a very small proportion of copper, although the alloy is usable and efficient with the copper omitted. Contact points made of this alloy are tough, the nickel providing for this quality, and they are of high conductivity on account of the preponderance of the silver, which is a good conductor, and the small percentage of copper assists in making the point tougher.

In mixing the alloy we prefer to use about nine parts of silver to one part of nickel and a very small percentage of copper, and to clearly set forth exact proportions of ingredients of the alloy, we will describe the alloy as being made of .100 nickel, .899 silver and .001 copper.

We claim:

1. A contact point for electrical purposes consisting of approximately nine parts of silver to one part of nickel.

2. A contact point for electrical purposes consisting of .100 parts of nickel, .899 parts of silver and .001 parts of copper.

In testimony that we claim the foregoing, we have hereto set our hands, this 21st day of October, 1919.

LEO T. WALLEN.
FRED'K F. WALLEN.