

UNITED STATES PATENT OFFICE.

WILLIAM A. McADAMS, OF NEW YORK, N. Y.

ALUMINIUM ALLOY.

SPECIFICATION forming part of Letters Patent No. 639,600, dated December 19, 1899.

Application filed March 10, 1898. Serial No. 673,413. (No specimens.)

To all whom it may concern:

Be it known that I, WILLIAM A. McADAMS, a citizen of the United States, and a resident of New York, in the county of Kings and State
5 of New York, have invented a new and useful Improvement in Aluminium Alloys, of which the following is a specification.

This invention relates to a composition consisting of aluminium, zinc, and copper, combined in substantially the following proportions, viz: aluminium, one hundred and eight
10 ounces; zinc, thirty-six ounces; copper, twelve ounces.

The composition made the subject-matter
15 of the present application is closely allied in its proportions to that which forms the subject-matter of my pending application, Serial No. 661,017, filed December 7, 1897, but differs therefrom in that the nickel is omitted.

While somewhat more brittle than the composition in which the nickel is employed, it still retains the prominent characteristics of the composition aforesaid and is sufficiently
20 hard and strong to satisfy the demands required of numerous cast-metal articles in common use. It is silvery-white in color and retains its luster when continuously exposed to

the elements. It is hard and strong, and while in its molten state it flows readily and may be made to take the lines of a mold with great exactness. 30

The composition is practically formed by melting the copper and aluminium and mixing them in their melted state and then introducing the zinc. The composition may then
35 be formed in such shape as found most convenient for shipment or use by pouring it into molds of the required dimensions.

What I claim is—

An aluminium alloy composed of aluminium, zinc and copper, the several substances
40 being combined in the proportion of three parts by weight of aluminium to every one part by weight of zinc and three parts by weight of zinc to every one part by weight of
45 copper.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 8th day of March, 1898.

WILLIAM A. McADAMS.

Witnesses:

FREDK. HAYNES,
C. S. SUNDGREN.