

# UNITED STATES PATENT OFFICE.

HEINRICH OSTERMANN AND AXEL PRIP, OF GENEVA, SWITZERLAND.

## METALLIC ALLOY.

SPECIFICATION forming part of Letters Patent No. 381,718, dated April 24, 1888.

Application filed February 16, 1888. Serial No. 264,251. (No specimens.)

*To all whom it may concern:*

Be it known that we, HEINRICH OSTERMANN, chemist, and AXEL PRIP, jeweler, both residing at Geneva, Switzerland, have invented a Metallic Alloy, of which the following is a specification.

Our invention relates to a metallic alloy intended to be used instead of steel in such mechanism in which the working parts are to be prevented from being magnetized by external influences like those of dynamo-electric machines. This is peculiarly valuable with regard to watch mechanism, and especially in the different parts of watch-escapements.

The principal conditions to which such an alloy must conform are the following: It must be composed only of metals which melted together have the property of not being magnetizable and are entirely free from any influence of magnetism, and be ductile, malleable, and easily rolled. Its hardness and its coefficient of linear expansion must be as nearly as possible the same as that of steel. To answer that purpose we have invented the following alloy or combination of metals, for which we now claim a patent:

Our alloy is composed of platinum, forty to fifty parts; copper, fifteen to twenty-five parts; nickel, twenty-five to thirty-five parts; wolfram, one to two parts; cobalt, one to two parts, and cadmium, one to two and a half parts.

Having thus described our invention, we claim—

An alloy composed of platinum, forty to fifty parts; copper, fifteen to twenty-five parts; nickel, twenty-five to thirty-five parts; wolfram, one to two parts; cobalt, one to two parts, and cadmium, one to two and a half parts, substantially as described, and for the purpose specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

HEINRICH OSTERMANN.  
AXEL PRIP.

Witnesses:

L. T. ADAMS,  
E. IMER-SCHNEIDER.