

# UNITED STATES PATENT OFFICE.

HEINRICH OSTERMANN AND AXEL PRIP, OF GENEVA, SWITZERLAND.

## ALLOY.

SPECIFICATION forming part of Letters Patent No. 382,826, dated May 15, 1888.

Application filed February 16, 1888. Serial No. 264,249. (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  
5 a Metallic Alloy, of which the following is a specification.

Our invention relates to a non-magnetic metallic alloy to replace steel in the works of watches, and is especially intended for the  
10 different parts of watch-escapements. An alloy for said purpose should be ductile and malleable. Its hardness and its coefficient of linear expansion must be as nearly as possible  
the same as that of steel.

15 Our alloy possesses the properties before mentioned, and it is composed of the metals and in the proportions next set forth, viz: platinum, fifty to sixty parts; copper, ten to twenty parts; nickel, twenty to thirty parts;

wolfram, one to two parts; cobalt, one to two  
20 parts, and cadmium one to one and one-half part.

Having thus described our invention, what we claim is—

An alloy composed of platinum, fifty to  
25 sixty parts; copper, ten to twenty parts; nickel, twenty to thirty parts; wolfram, one to two parts; cobalt, one to two parts, and cadmium one to one and one-half part, substantially as  
described, and for the purpose specified. 30

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,

ELMER SCHNEIDER.