

Title (en)

STEAM GENERATOR, AND CORRESPONDING METHODS OF MANUFACTURE AND USES

Title (de)

DAMPFERZEUGER UND ZUGEHÖRIGE VERFAHREN ZUR HERSTELLUNG UND VERWENDUNGEN

Title (fr)

GÉNÉRATEUR DE VAPEUR, PROCÉDÉS DE FABRICATION ET UTILISATIONS CORRESPONDANTES

Publication

**EP 3380787 B1 20221019 (FR)**

Application

**EP 15845497 A 20151124**

Priority

FR 2015053193 W 20151124

Abstract (en)

[origin: WO2017089658A1] The steam generator comprises at least one element (1) produced from a nickel alloy, the alloy having the following weight contents: - Ni greater than 50%; - Cr between 14% and 45%. According to the invention, the element (1) has a metal surface layer having, at a depth p from the inner surface, a weight content of chromium  $w_{Cr}(p)$ , a weight content of carbon  $w_C(p)$ , and a weight content of available chromium  $w_{Cr\_dispo}(p)$ , where  $w_{Cr\_dispo}(p) = w_{Cr}(p) - 16.61 \cdot w_C(p)$ . The weight content of available chromium  $w_{Cr\_dispo}(p)$ , taken as an average over the whole thickness of the metal surface layer from the inner surface, is greater than 0.

IPC 8 full level

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