

Title (en)

METHOD FOR REDUCING THE OXYGEN AND OXIDE CONTENT IN COBALT TO PRODUCE COBALT SPUTTERING TARGETS

Title (de)

VERFAHREN ZUR REDUKTION VON SAUERSTOFF- UND OXIDGEGHALT IN KOBALT ZUR HERSTELLUNG VON KOBALT-SPUTTERINGTARGETS

Title (fr)

PROCEDE POUR REDUIRE LA TENEUR EN OXYGENE ET EN OXYDE DU COBALT POUR PRODUIRE DES CIBLES DE COBALT POUR LA PULVERISATION CATHODIQUE

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Application

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Abstract (en)

[origin: WO0212577A1] The present invention relates to producing cobalt having a low oxygen and a low oxide inclusion content for use as a sputter target thereby reducing the arcing and metal defects during sputtering commonly associated with high-oxygen cobalt sputter targets. Notably, the method for reducing the oxygen content and the oxide inclusion content in cobalt are separate processes which may be combined in successive order to produce a low-oxygen cobalt sputter target having a low oxide inclusion content. The reduction in oxygen content preferably is performed prior to reducing the oxide inclusion content. Accordingly, the artisan will appreciate that one process can be performed without the other depending upon whether a reduction in oxygen or oxide inclusions is preferred in a desired cobalt sputter target.

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