

Title (en)

METHOD FOR PLACING A PRECIOUS METAL TIP ON AN ELECTRODE, ELECTRODE AND SPARK PLUG

Title (de)

VERFAHREN ZUR ANBRINGUNG EINER EDELMETALLSPITZE AUF EINER ELEKTRODE, ELEKTRODE UND ZÜNDKERZE

Title (fr)

PROCEDE POUR METTRE EN PLACE UNE POINTE DE METAL NOBLE SUR UNE ELECTRODE, ELECTRODE ET BOUGIE D'ALLUMAGE

Publication

EP 1413029 A1 20040428 (DE)

Application

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Priority

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Abstract (en)

[origin: DE10134671A1] Applying a precious metal tip (1) to an electrode (5) comprises welding the tip to the electrode; and fusing the tip in a first region and the electrode in a second region to form a mixed alloy. The first region is selected so that it completely surrounds the material of the tip. Independent claims are also included for the following: (i) the electrode used in the process; and (ii) a spark plug comprising an electrode and a precious metal tip. Preferred Features: The welding step is a resistance welding step. Both regions are fused using a laser having a pulse of approximately 1 kW for approximately 10 ms. The electrode is made from nickel or a nickel alloy. The tip is made from gold, iridium or platinum.

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