

Title (en)

A METHOD AND A SYSTEM FOR COLOR MARKING OF METALS

Title (de)

VERFAHREN UND SYSTEM ZUR FARBMARKIERUNG VON METALLEN

Title (fr)

PROCÉDÉ ET SYSTÈME POUR LE MARQUAGE EN COULEURS DE MÉTAUX

Publication

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Application

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Abstract (en)

[origin: WO2013151451A1] The present invention relates to a system for color marking of the metals by means of laser comprising the laser (L) generating a laser beam (W), which is directed by an electronically controlled element correcting the divergence of the beam (V) followed by galvo mirrors of the scanner or the plotter (X) and (Y) changing the angle of the beam or shifting the beam in the plotter system and then through the optics (F) on the marked surface (S) at a distance (D) from the optics (F) characterized in that it comprises a control unit (U) to read a signal proportional to the power (2) read by means of the head of the power meter (P), into which a part of the laser beam is preferably directed from an uncoupling mirror (M), which is arranged in the path of the laser beam between the galvo mirrors of the scanner (X) (Y) and the surface (S), preferably in front of or behind the optics (F), and to read a signal proportional to the distance (1) of the distance sensor (DS), and to send the signals controlling a deflection of the beam (3) and (4) and its divergence (5) in the galvo mirrors of the scanner (Y) and (X), and to send the power control signal (6) of the laser (L), wherein the unit is controlled by a control device, preferably a computer (C), and a method for color marking of the metals using this system.

IPC 8 full level

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