a 2012 0060

The invention relates to the material resource identification field and can be used for marking of conductive parts, for example, in the production of rolled metal, parts of vehicles, in the machine and aircraft building industry.
The method for manufacturing an identification tag on a metal substrate consists in that on it is performed a digital code and an information coordinate grid, on which is formed an individual picture by applying on the metal substrate a nonuniform layer of metal powder with particles of different sizes, placing thereon a transparent metal powder layer fixing plate, nonuniform laser irradiation of the powder, with the radiation flux density of $10^5 \ldots 10^6$ W/cm^2, removing the transparent fixing plate and the unifixed particles. After removal of the transparent fixing plate and the unifixed particles, a transparent protective layer may be applied on the individual picture.

Claims: 2
Fig.: 5