

Abstract**Metal bodies and method for production thereof**

5 The present invention relates to methods for producing coated metal bodies by applying a metal powder composition to a metal body, such that a coated metal body is obtained, the coating of which contains one or more wax components; heating the coated metal body to the melting temperature of at least one of the wax components and subsequent cooling to room temperature, such that a coated metal body is obtained; and thermally treating the coated metal body in order
10 to achieve alloy formation between metal portions of the metal body and the metal powder composition, wherein the metal body comprises nickel, cobalt, copper and/or iron and the metal powder composition comprises a metal component in powder form, which contains aluminum, silicon or magnesium in elemental or alloyed form. By melting and cooling the wax, the method makes metal bodies having a more uniform alloy coverage accessible. The invention furthermore
15 relates to methods wherein the metal body is subsequently treated with a basic solution. The present invention additionally comprises the metal bodies obtainable by the method according to the invention, which find application as load-bearing and structural components, for example, and in catalytic converter technology.

20 [Figure 4]