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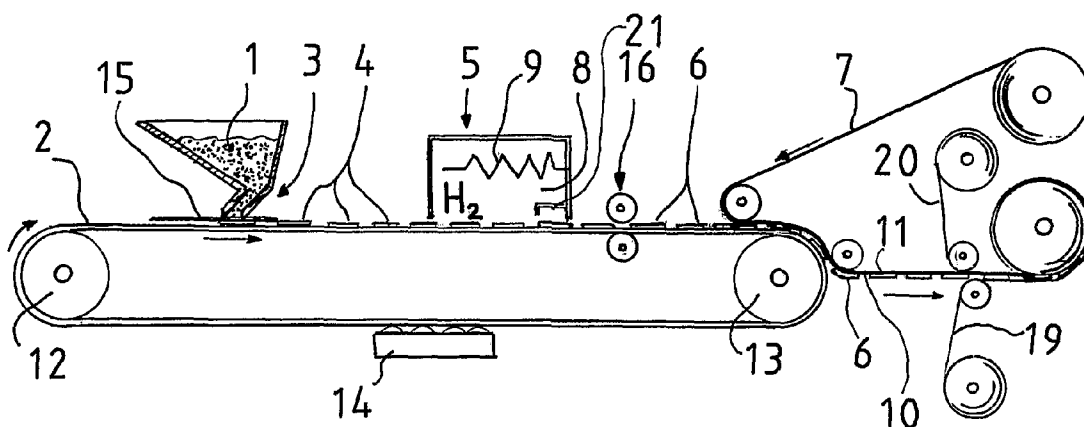
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(54) Title: METHOD AND SYSTEM FOR MANUFACTURING AN ELECTRICALLY CONDUCTIVE METAL FOIL STRUCTURE



(57) Abstract: In the method and system for manufacturing an electrically conductive metal foil structure, a paste (1) containing fine-grained copper oxide powder with a grain size of the order of 10 nm or less, a binding agent and possible alloying elements and additives. Using a forming device (3), a conductor blank (4) of desired shape is formed from the paste (1) on the surface of a carrier substrate (2). The conductor blank (4) is metallized and sintered in a metallizing and sintering device (5) at an elevated temperature to form a continuous and electrically conductive copper foil (6). The carrier substrate (2) has a substantially non-adhesive surface, which is made of a material capable of withstanding the elevated temperature used for the metallization and/or sintering and non-reacting with the substances contained in the paste so that the copper foil (6) can be detached from the carrier substrate. After the metallization and sintering, the copper foil (6) can be detached and transferred further.

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