

# The Colouring Bronzing Patination Metals

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the techniques of metal colouring bronzing and patination the metals covered are bronze and

yellow brass in cast form copper gilding metal yellow brass and silver in sheet form and silver plate and copper plate a glossary of archaic chemical terms and their modern equivalents is included an historical introduction outlines the various metalworking traditions with which the use of colouring techniques is associated with 275 illustrations 220 in colour cover

surface finishing is a major subject in the field of metals the artistic and technical development of decorative or protective finishes has produced some distinctive classes of metalwork in different parts of the world metal plating and patination is the most important reference work to be published surveying the surface treatments used from the inception of metallurgy to the present day

this historic book may have numerous typos and missing text purchasers can usually download a free scanned copy of the original book without typos from the publisher not indexed not illustrated 1907 edition excerpt 69 walcker recommends the following mixture which has been tried by the author with the results recorded below ammonium carbonate 300 grains copper sulphate 150 vinegar 5i fluid ounces evaporate the solution to dryness and then add vinegar fluid ounces oxalic acid 4 grains ammonium chloride 16 the mixture is boiled and the residue filtered off the article is warmed and the solution painted on the work then boiling water is poured over it and the surface rubbed first with an oiled pad then with a dry pad a brass ash tray oiled and wiped dry as recommended above 6 dried in sawdust only c coppered oiled and wiped dry d dried in sawdust only the above trays were immersed in the filtrate only it was found that immersion was much better than painting on the solution the wiping with oil removes some of the bronze colour unless done very softly indeed the colour produced on brass is distinctly yellowish green while the colour imparted to copper is similar to that produced by copper chloride 73 and blackens by exposure to light a darkens slightly in diffused daylight b appears not to change c darkens slowly probably because the bronze has been largely wiped off by the oiled rag d darkens very quickly in daylight the residue left on the filter was rubbed into a paste with a few drops of the filtrate and painted on the work to be bronzed which was then heated on a lacquering stove after the paste was thoroughly dried it was washed off with boiling water brass received the same colour as by the immersion method but the colour was not quite so uniform copper assumed a deep brown colour which became darker on exposure to

the grove encyclopedia of materials and techniques deals with all aspects of materials techniques conservation and restoration in both traditional and nontraditional media including ceramics sculpture metalwork painting works on paper textiles video digital art and more drawing upon the expansive scholarship in the dictionary of art and adding new entries this work is a comprehensive reference resource for artists art dealers collectors curators conservators students researchers and scholars similar in design to the grove encyclopedia of decorative arts this one volume reference work contains articles of various lengths in alphabetical order the shorter more factual articles are combined with larger multi section articles tracing the development of materials and techniques in various geographical locations the encyclopedia provides unparalleled scope and depth and it offers fully updated articles and bibliography as well as over 150 illustrations and color plates the grove encyclopedia of materials and techniques offers scholarly information on materials and techniques in art for anyone who studies creates collects or deals in works of art the entries are written to be accessible to a wide range of readers and the work is designed as a reliable and convenient resource covering this essential area in the visual arts

electrochemical corrosion and reduction marcel pourbaix corrosion product characterization n a nielsen principles of gaseous reduction of corrosion products c ernest birchenall and russell a meussner some brief remarks on electrochemical reduction jerome kruger measures for preventing corrosion of metals r t foley a review of the history and practice of patination phoebe dent weil the production of artificial patination on copper d c hemming beta iron oxide hydroxide formation in localized active corrosion of iron artifacts f zucchi g morigi and v bertolasi the current status of the treatment of corroded metal artifacts r m organ some constructive corrodings cyril stanley smith conservation of rusty iron objects by hydrogen reduction l barkman restoration of large gilded statues using various electrochemical and metallurgical techniques fielding ogburn elio passaglia harry c burnett jerome kruger and marion l picklesimer problems of retrieval and retention of artifacts in field excavations w trousdale

the flag fen basin has been the subject of nearly continuous archaeological research since about 1900 this research sheds new light on the neolithic landscape on the iron age and roman landscapes and on the changing environmental conditions since the earlier neolithic

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