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The young man's book of amusement Halifax, 1848

Crystallization of Tin

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To Paint Gold Flowers on Silk.

Paint flowers or other ornaments with a very fine camel-hair pencil dipped in a solution of nitro-muriate of gold, (in the proportion of one part of the nitro-muriate to three of distilled water) on silk, satin, &c. and hold them over a Florence flask, from which hydrogen gas is evolved, during the decomposition of water, by sulphuric acid and iron filings. The painted flowers, &c. in a few minutes, will shine with all the splendour of the purest gold. A coating of this kind will not tarnish on exposure to the air, or in washing.

To Paint Silver Flowers on Silk.

Paint flowers, &c. on white silk, with a camel's hair pencil dipped in a solution of nitrate of silver; immerse this while wet in a jar of sulphurous acid gas, by burning sulphur under a jar of atmosphericair. The penciling will assume a beautiful metallic brilliance.

Crystallization of Tin.

The process is as follows:—Dissolve four ounces of muriate of soda in eight ounces of water, and add two ounces of nitric acid; or eight ounces of water,

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Pleasing

A most rem glass tubes, p these are laid having their acquire a rota progressive n two ounces of nitric acid, and three ounces of muriatic acid; or eight ounces of water, two ounces of muriatic, and one ounce of sulphuric acid. Either of these mixtures is to be poured warm upon a sheet of tinned iron, placed upon a vessel of stone ware; it is to be poured on in separate portions, till the sheet is completely watered; it is then to be plunged into water, slightly acidulated, and washed. The operation is completed by drying. By subjecting the iron to different degrees of heat, the variety of the forms is increased; some parts are granular, others are like architectural ruins; others grand natural phenomena of wood, and mountain, and cataract; in fine, there is no shape which the imagination can conceive, that accident may not produce in these exquisite sports of chemical power. The natural result of the crystallization is, to produce a surface of the shade of mother of pearl. The hues of gold, green, blue, &c. are effected by varnishes, laid on in a peculiar manner, and rubbed to the utmost degree of polish by the soft part of the hand.

Pleasing Experiments with Glass Tubes.

A most remarkable phenomenon is produced in glass tubes, placed in certain circumstances. When these are laid before a fire in an horizontal position, having their extremities properly supported, they acquire a rotatory motion round their axis, and also a progressive motion towards the fire, even when their

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