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The young man's book of amusement

Halifax, 1848

Two Cold Liquids produce Fire

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Two Cold Liquids produce Fire.

Put a small quantity of aquafortis into a saucer ; add a few drops of oil of turpentine, oil of carraways, or any other essential oil, and a flame will instantly be produced.

The three Haloes.

The following experiment, which illustrates in a pleasing manner the actual formation of haloes, has been given by Dr. Brewster :—" Take a saturated solution of alum, and having spread a few drops of it over a plate of glass, it will rapidly crystallize in small flat octohedrons, scarcely visible to the eye. When this plate is held between the observer and the sun, or a candle, with the eye very close to the smooth side of the glass plate, there will be seen three beautiful haloes of light, at different distances from the luminous body. The innermost haloe, which is the whitest, is formed by the images refracted by a pair of faces of the octohedral crystals, not much inclined to each other ; the second haloe, which is more coloured, with the blue rays outwards, is formed by a pair of faces more inclined ; and the third haloe, which is very large and high coloured, is formed by a still more inclined pair of faces. Each separate crystal forms three images of the luminous