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Notes & Queries.

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(7052) D. L. S. says: In SCIENTIFIC AMERICAN of October 31, 1896, Notes and Queries column, question No. 7002. Please tell me what good size is and how made, or where it can be obtained. How is good sizing made? 1. (Oil size.) Drying or boiled oil thickened with yellow ochre or calcined red ochre, and carefully reduced to the utmost smoothness by grinding. It is thinned with oil of turpentine. Improves by age. Used for oil gilding. 2. (Water size.) Parchment or isinglass size mixed with finely ground yellow ochre. Used in burnished or distemper gilding. 3. Place boiled oil in a stone pot and place on a gentle fire, and allow the heat to rise almost to the point of ignition, then set fire to it, and let it burn until it is thick, then put on the cover to extinguish the flames. Strain through silk and thin with turpentine.

(7053) L. J. H. says: Please give through the columns of the SCIENTIFIC AMERICAN a formula for making a cement to hold two pieces of glass together. A. The Pharmacist recommends the following as a proved recipe: Take 1 ounce of Russian isinglass, cut it in small pieces, and bruise well, in order to separate the fibers; then add 6 ounces of warm water, and leave it in a warm place that the isinglass may dissolve, which will require from 34 to 48 hours. Evaporate this to about 3 ounces. Next dissolve 1/2 ounce mastic in 4 ounces of alcohol, and when this is ready, transfer the isinglass from the evaporating dish to a tin can (an empty ether can will be found convenient), heat both solutions, and add the mastic solution to the isinglass in small quantities at a time, shaking the can violently after each addition. While still hot strain the liquid through muslin cloth and put up in 1/2 ounce bottles. This cement is very valuable, and articles, such as mortars, graduates, etc., mended by it have been in use for years.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

December 1, 1896,

AND EACH BEARING THAT DATE.

[See note at end of list about copies of these patents.]

Table listing various inventions and their patent numbers, including items like 'Abdominal supporter, W. Norfolk & Noy', 'Accumulator or secondary battery, F. W. Eiler', 'Advertising device, J. A. Kennel', etc.

Table listing various inventions and their patent numbers, including items like 'Bearing, ball, H. A. Stephens', 'Bed, spring, G. Bacon', 'Bedstead joint, D. D. Curtis', 'Bedstead, metal, D. Frank', etc.

Table listing various inventions and their patent numbers, including items like 'Gas apparatus, differential indicator for, R. Norris', 'Gas generator, acetylene, W. P. & H. D. Hill', 'Gas lights, composition of material for incandescent, L. K. Bohm', etc.

Table listing various inventions and their patent numbers, including items like 'Signal, See Block signal, Railway signal, Switch signal', 'Signal pressure head, automatic, J. H. Winspear', 'Skate, H. D. Carry', 'Skate, roller, G. T. Bond', etc.

DESIGNS.

Table listing various designs and their patent numbers, including items like 'Advertising stand, M. Blumenthal', 'Balance weight, L. Brown', 'Bicycle for children, G. F. Meilink', etc.

TRADE MARKS.

Table listing various trade marks and their patent numbers, including items like 'Asbestos cement for finishing walls, J. B. King & Company', 'Beer,lager, Brewings Company', 'Boiler, water, and steam, J. W. S. Keyser', etc.