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SEPTEMBER, 1895.-(No. 119.)

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(6613) S. D. writes: On perusing your paper of March 9, 1895, page 150, I read a paragraph headed: "Wire Fence Telephones in Australia," and thought you would be interested tolearn that about seven menths age I utilized the top wire of the existing fences for telephonic use and it works to satisfaction. The line is about two miles in length, the wire being with staples as usual, no insulation is needed. At the splices we scrape off the rust and make a continuous connection.

(6614) J. L. says: What is meant by the arematic group in chemistry? A. A class of hydrecarbons, chiefly characterized by containing a group of six carbon atoms in which, out of the twenty-four units of atomicity, eighteen are supposed to be saturated by union of carbon with carbon, leaving only six open to external saturation.

(6615) J. M. B. asks: How can the globes on incandescent lamps be colored red, blue, green, and opal? I want a coloring that will not wash off, and that will not flake off by the heat. A. 1. Prepare the glass by theroughly washing in seap and water and drying. Then dip in bath, made by beating up the whites of two eggs in 1/2 pounds or pint of water and filtering, and hang up to dry. Dissolve the aniline color in pho tegrapher's common colledion. 2. Red or blue aniline will form clear solutions, while the green solution will require filtering. 3. Yellow aniline forms a handsome color, but the surface of the glass presents a frosted appearance after the application. 4. Violet and purple colors may be obtained by combining red and blue in 7. A two-family dwelling recently erected at New different quantities. When the solution is ready, dip the Haven, Conn. Two perspective elevations and floor prepared glass bulbs therein, hang up to dry, and finally pass a current through the bulb for half an hour, that the heat thus generated may harden the coating of the col-8. St. Ann's Episcopal Church, Kennebunkport, Me. lodion, or place in a current of air. 5. The preparation can easily be removed with alcohol or sulphuric ether but is not affected by water. Experience has shown 9. A residence at Williamsport, Pa., recently erected that the best results are obtained by not using too much for J. F. Fredericks. Architect, David K. Dean. aniline. Make the color light rather than deep, and apply two or three coats.

> (6616) W. S. says: A cannon ball is fired from a cannon in a horizontal position, another cannon ball is dropped from the mouth of same cannon at the mement of firing. Which will strike the earth first? A The effect of gravity on a falling body is the same whether moving with high velocity horizontally or drop ping vertically, but as a cannon ball fired horizontally at the cannon points in a tangent to the earth's surface the dropping ball will reach the earth first by a very small fraction of time.

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