

PHOTOGRAPHING MARS.

Interesting Details of the Making of the Andes Photographs.

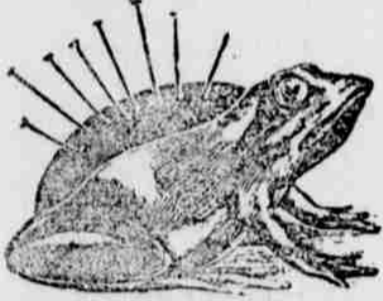
The Andes photographs of Mars were made with a large planetary camera which carries with it an amplifying lens. This camera was fastened to the lower end of the large telescope of eighteen-inch lens, and each of the many little images shown on the plates was taken separately. The telescope was adjusted so that the planet was in the centre of the camera field; then the plate holder carrying the sensitive plate was placed in the carrier of the planetary camera and set in position for the first image, the slide then being drawn from the plate holder. A bulb in the right hand opened the shutter of the camera, allowing the light from the planet to fall on the sensitive plate, with an exposure of about two seconds. Then a bulb in the left hand shifting the plate for a quarter of an inch for the succeeding image; and so on through the entire series of images taken on one plate. Sometimes the plate was arranged to shift from right to left and sometimes in a vertical direction. Inasmuch as the photographs were made at night, virtually no light except that from Mars reached the plate, and the latter was not incapacitated by one exposure from receiving other sensitive impressions. About half an hour was consumed in taking the sixty images on some of the plates, and eight or ten plates were exposed in one night's work. In all about ten thousand negative images were taken. The plates here reproduced represent the work that was done under the most favorable conditions of atmosphere. The one of July 13, taken during the nearest approach of the planet to the earth, was at a distance of 38,500,000 miles. When Mars was at or near the zenith, it was necessary for me to lie on my back while taking the photographs.

As the best "seeing" occurs in "flashes," the successive images on the same negative may differ somewhat in wealth of finer detail; to the skilled eye all show the larger canals with remarkable clearness, though the more delicate details are lost in reproduction. Of the ten thousand separate images of the planet none is destitute of canals, and in some cases as many as twenty-five or thirty canals have been counted in a single image. Several of the previously observed double canals show their quality on the plates taken during the intervals of best atmospheric conditions.

This has been only the second opposition of Mars during which the canals have been successfully photographed. The first and only previous successful photographic impressions of the canals were obtained at the Lowell observatory, Flagstaff, Arizona, during the opposition of 1905, through the thought and skill of C. O. Lampland. Two years will elapse before another opposition of the planet, when it makes a still nearer approach to the earth, and after that no favorable opposition will occur for a period of fifteen years.—E. C. Slipher, in the December Century.

Not Alive!

Poor Froggie! Not that he would a-wooloo go. Oh, no; rather that his pleasing per-



A USEFUL FROG.

sonality has been used for a pin-cushion. He can be made. A pad serves for his back. It is covered with green velvet.

Unique Soap Holder.

A peculiar contrivance, termed a soap-holding device, is the recent invention of a Chicago man. It comprises a supporting arm, to which is suspended a chain and clamp, carrying a cake of soap. Obviously the supporting arm is attached to the wash basin so that the suspended cake of soap will be directly over the water. The supporting arm is not stationary, but is provided in order that the soap can be dipped down into the water when necessary. The sanitary advantages of this soap holder will be apparent at once. It does away with the ordinary slimy receptacle employed for holding soap. The soap hangs in a position of best advantage to the user. Soap of any description can be used, as the supporting pin can easily be pushed into position.

The Reasoning of Ants.

With its microscopic brain the ant has not the power of reason (said Mr. Henry Hill at the London Institute recently). Experiment have proved that; but it is excessively imitative, has marvelous power of adaptation, and accomplishes all of its marvellous work through the medium of "plastic instinct."

Nottingham Lace Output.

Consul F. W. Mahin states that the total annual value of Nottingham's lace output is about \$25,000,000. The United States is the largest individual buyer, taking about a quarter of the total.

The Modesty of Women

Naturally makes them shrink from the indelicate questions, the obnoxious examinations, and unpleasant local treatments, which some physicians consider essential in the treatment of diseases of women. Yet, if help can be had, it is better to submit to this ordeal than let the disease grow and spread. The trouble is that so often the woman undergoes all the annoyance and shame for nothing. Thousands of women who have been cured by Dr. Pierce's Favorite Prescription write in appreciation of the cure which they have obtained through the examinations and local treatments. There is no other medicine so sure and safe for delicate women as "Favorite Prescription." It cures debilitating drains, irregularity and female weakness. It always helps. It almost always cures. It is strictly non-alcoholic, non-secret, all its ingredients being printed on its bottle-wrapper; contains no deleterious or habit-forming drugs, and every native medicinal root entering into its composition has the full endorsement of those most eminent in the several schools of medical practice. Some of these numerous and strongest of professional endorsements of its ingredients, will be found in a pamphlet wrapped around the bottle, also in a booklet mailed free on request, by Dr. R. V. Pierce, of Buffalo, N. Y. These professional endorsements should have far more weight than any amount of the ordinary lay, or non-professional testimonials.

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When Mother Reads Aloud.

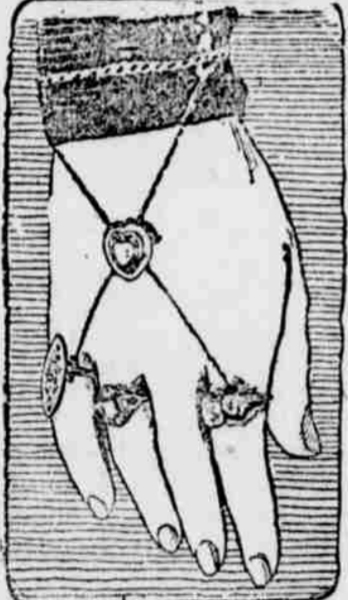
When mother reads aloud, the past Seems real as every day; I hear the tramp of armies vast, I see the spears and lances cast, I join the thrilling fray; Brave knights and ladies fair and proud, I meet, when mother reads aloud.

When mother reads aloud, far lands Seem very near and true; I cross the desert's gleaming sands, Or hunt the jungle's prowling bands, Or sail the ocean blue; Far heights, whose peaks the cold mists surround.

When mother reads aloud, I long For noble deeds to do— To help the right, redress the wrong; It seems so easy to be strong, So simple to be true, Oh, thick and fast the visions crowd My eyes when mother reads aloud! —St. Nicholas.

The Latest Fad in Jewelry.

The latest thing in jewelry is to wear a large diamond surrounded by little rubies upon the back of the hand, the ornament being fastened



as shown in the sketch. The fashion comes from Paris, where this design has been patented. The prices run from \$150 upward, bracelets and rings included.

Umbrellas on the Gold Coast. An inferior chief in Lagos has, it is feared, committed the indiscretion of using a large and elaborate umbrella, with the result that his superior chief is offended at what he regards a breach of Court etiquette.

Hitherto no one but a principal chief had been allowed to carry an umbrella, and when some time ago a subordinate made an appearance with one of rather showy design he was promptly fined by the local Council. The principal umbrellas for Ashanti and the Gold Coast chieftans are of enormous size, some of them when open measuring ten feet across.

Spiders As Aeronauts.

Writing of ballooning spiders in Harper's Magazine, Dr. H. C. McCook says: "Given a steady breeze and a free course, there is practically no limit to the distance which a ballooning spider may traverse. The writer has taken orb weavers from their snuggeries under divers sheltering projections at the highest attainable point on the dome of St. Peter's in Rome, whither they had doubtless been carried by the wind when younglings. One may see flecks of gossamer aloft at far greater heights. Seafaring folk often note spider balloons speeding by them at sea or entangled upon various parts of the vessel."

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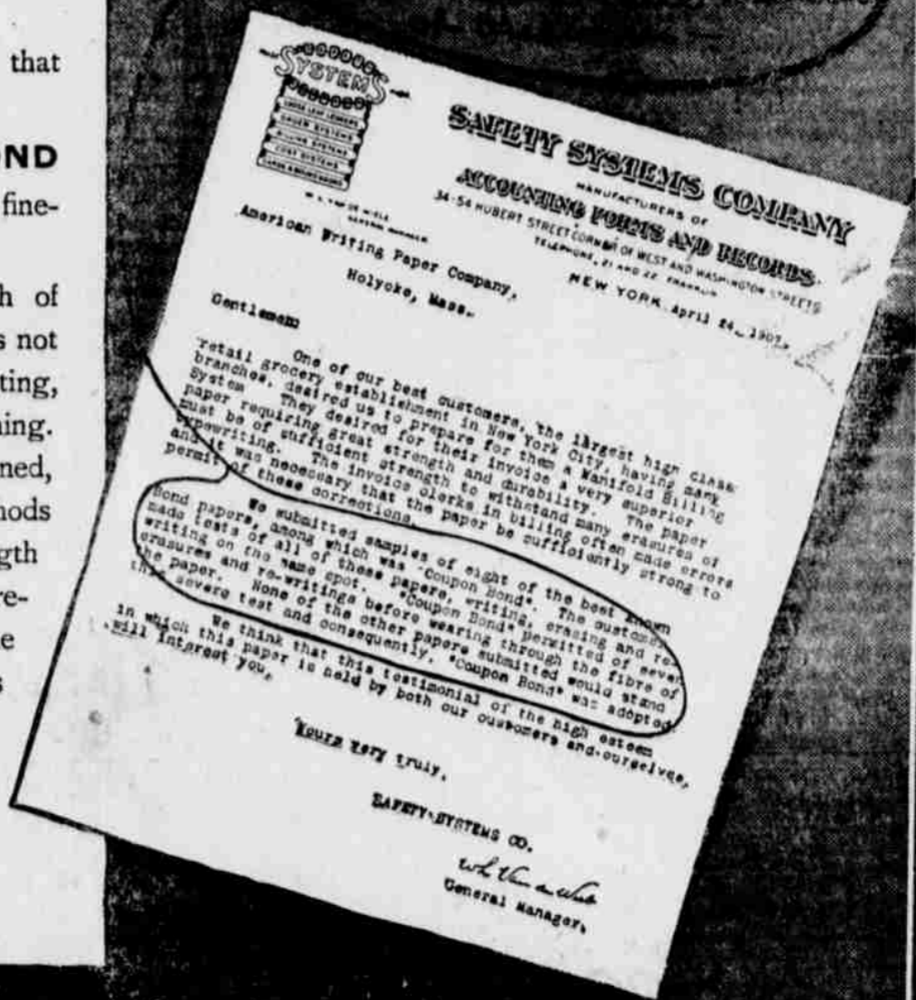
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