Scientific American.

ESTABLISHED 1845.

MUNN & CO., Editors and Proprietors.

PUBLISHED WEEKLY AT NO. 87 PARK ROW, NEW YORK.

O. D. MUNN.

A. E. BEACH.

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NEW YORK, SATURDAY, JUNE 5, 1880.

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AN EPIDEMIC OF GOLD DISCOVERY.

Reports of gold discoveries in Maine or beyond the Rocky no one There seems to have been of late, however, a re- interesting examples of fracture." Prof. Liversidge said: markable outbreak of such reports from other parts of the country.

with the Secretary of State that he has discovered a welldefined vein of gold and silver in the town of Cornwall, Orange County, N. Y.

From the Baltimore Gazette, of April 22, we learn volatilization." that persons residing in the vicinity of Catonsville, Baltimore County, have indulged in a good deal of speculation To Advertisers—The regular circulation of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the Scientific the past few days in regard to the value of a gold deposit distribution of the scientific the past few days in regard to the value of a gold deposit distribution of the scientific the past by him and situated eight miles from Baltimore, on the old The true explanation of the crystalline appearance was given Frederick road, in close proximity to "Glenwild," the counby Mr. Hopkins in the SCIENTIFIC AMERICAN of Jan. 31, 1880. try seat of Mr. George Appold. Immediately after purchasing the property, about one year ago, Mr. Hay sank an artesian well to the depth of 150 feet, and being satisfied that valuable mineral existed, began to sink a shaft six feet in width, but was compelled to suspend operations during the prediction. The work progresses night and day, two sets of men being employed.

> A dispatch from Atlanta, Georgia, dated April 13, says that considerable excitement prevails in White County over the find of rich pockets of gold in Nacoochee Valley. Over a hundred nuggets were taken out in four days, one of which, shown in Atlanta, weighs over a pound and an ounce. The yield grows richer as the washing proceeds.

Another report from the same place, dated April 24, says that the gold fever is spreading, especially in White County. Lumsden Bros., at Nacoochee, have taken out 2.700 pennyweights in nuggets from 80 square, feet of earth at a total expense of \$65. From a pocket 30 inches square they gathered 212 pennyweights in small nuggets. Another party an hour. The state of the tide was not reported. Her ownthat struck the same lead took out. before they began to clean up, a nugget that weighed 106 pennyweights, and seve ral others not quite so heavy.

Favorable reports are also made from the lately reopened gold mines of North Carolina.

All these may be genuine "finds," to be followed by profit able developments; nevertheless it will not do to base extravagant hopes upon them. Too often, as Prof. Stewart remarks in a recent report on certain Maine mines, such dis coveries are made "by new-fledged prospectors, who are utterly ignorant of the elementary principles of geology and mineralogy. They hastily squat on a protruding trap dike, and develop 'the find' by excavating a shallow potato pit, and imagine themselves bonanza kings if they encounter a stringer of mundic or fragment of copper pyrites. 'It takes a mint to work a mine.' Skill. capital, and experience are needed to run a mine successfully; and any attempt to manage the business without these will end disastrously."

Where the Islands and Sand Bars in the Mississippi

From a series of daily observations extending from the early part of February to the latter part of October, 1879, taken at St. Charles, Mo., under the direction of officers of the United States Engineer Corps, it has been ascertained that the average quantity of earthy matter carried in suspension past that point by the Missouri River, between one foot of the bottom and the surface, amounts to 14,858 lb per second, or 1,283,731,200 lb. each twenty-four hours. ing the entire year, enough to cover one square mile with a depth of nearly six inches.

During the months of June and July the average quantity falls to supply the Erie Canal at this point. per twenty-four hours amounted to 47,396,448 cubic feet, enough to cover a square mile with a depth of one foot and far in excess of that which has already been determined .-Missouri Republican.

ANOTHER LOST FIELD GLASS.

inclosing a printed paper on the same phenomenon read by into the largest cotton manufacturing center on this continent.

him before the Royal Society of New South Wales, December 1, 1875. The paper is illustrated by two fine engrav-Mountains are matters of everyday occurrence and surprise ings from photographs, representing "some peculiar and

"They were met with upon the lenses of a field-glass, or, to speak more precisely, between the surfaces of the achro-To begin at home, there is the report from Albany, April matic combinations of the two object glasses of a field-29, that Albert Stolpp, of Brooklyn, has filed official notice glass, which had been lost upon the Liverpool Plains, and there left exposed to the sun and weather for a period of five or six years. The long-continued exposure to alternate heat and cold had evidently caused the Canada balsam, or other A dispatch from Milwaukee, Wis., April 23, says: "Much material used for cementing the crown and flint glass porexcitement prevails at Ashland over the reported discoveries tions of the lenses together, to contract and crack along cerof gold and silver, in paying quantities, at Brunschwiller tain lines; the contraction and consequent fractures being due to the loss of turpentine from the balsam by gradual

Our readers will remember that Prof. Barker's supposed crystallization of gum took place between the lenses of a covered by Mr. F. Marion Hay upon a tract of land owned and there exposed to the weather for a number of months.

Arctic Relief.

Captain Hooper, commanding the revenue steamer Corwin, has been ordered to leave San Francisco, Cal., May 22, for winter. The shaft has now been completed, and the quartz the relief of ice-bound whalers and to search for the Arctic containing the gold was reported yesterday by those engaged exploring vessel Jeannette. He will proceed direct to Ounain the work as having been assayed at \$30 per ton. Mr. laska, where he will take in a fresh supply of coal; then go The SCIENTIFIC AMERICAN Export Edition is a large and splendid peri. Hay is sanguine that the precious metal will be found in on to Norton's Sound, touching at the seal islands by the odical, issued once a month Each number contains about one hundred paying quantities, and operations thus far seem to verify his way. He is to push through Behring Straits into the Arctic Ocean as soon as those waters are open, and assist such whalers as may need help, making meantime, as his letter of instruction reads, careful inquiries regarding the progress and whereabouts of the steamer Jeannette, engaged in making explorations under the command of Lieutenant Commarder De Long, United States Navy, and, if practicable, communicate with and extend any needed assistance to that vessel.

A FAST RIVER STEAMER.

During her trial trip, May 12, the new iron hull steamboat Albany, for the Hudson River day line to Albany, ran a distance of 16 miles in 371/2 minutes, a speed of nearly 26 miles ers expect that she will easily run 24 miles an hour.

The Albany is the largest steamer built thus far for the day service, and will have ample accommodation for 2,000 passengers. The dimensions of the hull are 296 feet in length, 40 feet beam (731/2 feet over all), and 111/2 feet depth of hold. The engines were made by Fletcher, Harrison & Co., and are of the vertical beam condensing pattern, with a 73 inch cylinder, a 12 foot stroke, and capable of running up to 3,000 horse power. There are three boilers, 38 feet long each, and 8 feet 10 inches in diameter of shell. The joiner work is being done by Mr. John E. Hoffmeyer. Every recent improvement looking toward increased safety has been provided. The hull, which is of iron, was built by the Harlan and Hollingworth Company, of Wilmington, Del. The engine frame is also of iron, and very compact.

There are three decks, the main, saloon, and upper decks. the main and saloon decks will be for the use of passengers, and the upper deck for the officers. The dining room is on the main deck instead of in the hold, as is usual. The saloon will be elaborately frescoed and upholstered. The forward and after parts are left open on the sides. The after portion is covered by the upper deck. The forward part is entirely open. She will be ready for service about the middle of June.

IMPROVEMENTS AT COHOES.

The importance of Cohoes, N. Y., as a manufacturing city largely depends, as our readers are doubtless aware, upon the magnificent water power furnished by the falls of the Mohawk River at that point, as improved by the Cohoes Water The matter thus carried along weighs, approximately, 100, Power Company. This company owns the entire power of lb. per cubic foot when dry, giving an average of 12,837,312 the river from half a mile above the falls to a mile below, cubic feet of earth transported each twenty-four hours dur- the total fall in that distance being 120 feet. The water is used in five successive canals, having falls of 18 to 25 feet, and again from the level of the State dam built below the

From the Northern Budget we learn that the Cohoes Comany have just begun an important extension of their works eight inches. The maximum quantity observed for any The first part includes the cutting of a channel through solid twenty-four hours was on July 3, when it reached the rock from Van Rensselaer street, up Ontario street, to interenormous amount of 111,067,200 cubic feet, sufficient to sect the canal at Lansing's Mill, a distance of 600 feet, the cover a square mile to a depth of four feet. These figures do, width of the cut being 35 feet, and the depth 20 feet. From not take into account the material that is held in suspension the corner of Ontario street a similar canal, 800 feet long, 30 within the lowest foot of the depth, or that which is being feet wide, and 20 feet deep through solid rock, is to be cut rolled along the bottom. If these quantities could be ascer- beside the railway track, to connect with the canal at the tained within any reasonable limit of approximation to cor Cohoes foundry. Both these cuttings are to be securely rectness, there is no doubt but they would show an amount arched. The rock removed will be used for filling in land in rear of Root's Mill. The water to feed this canal is now running to waste from the Lansing Mill. The land along the canal will furnish 2,000 feet of mill frontage. The further improvements in contemplation involve an extension The articles which appeared in this paper some months of the Rensselaer street canal a distance 1,500 feet. Two ago relative to Prof. Barker's paper before the American lines of canal will be constructed the entire distance, making Science Association on a curious case of crystallization in available a fall of 40 feet. These improvements will give, Canada balsam, have called out a note from Prof. Liver-the Budget remarks, a water power second to none in the sidge, of the University of Sydney, New South Wales, world, and will in time no doubt convert the city of spindles