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of the Massachusetts State Board of Health.—Food.—Weaning.—Bathmg and clothing.

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man's nature.

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1X. ASTRONOMY, GEOLOGY, ETC.—The Wnoder of the Worlds. By CAULLE FLAMMARION. Saturn and his system.

The Geology of Gibralter. The grological history of the key to the Mediterranean.

Dog Lore. Stories of canine intelligence, sagacity, and deprayity.

INTELLIGENT WORKMEN NEEDED.

Notice was taken in a recent issue of this paper of the experience of a large shoe manufacturer of this State, who to undertake investigations and experiments of a scientific advertised in Boston and New York for twenty-five shoe and useful character, for the furtherance of national prosfitters to work in his factory, offering full current rates and perity, Mr. Friese observed that water conveyances had been

keeper, and the next day's mail brought three hundred and no such progress. At that time the rail-car in use was but a forty-seven answers.

Detroit paper, brought one hundred and thirty applications ity, yet the gain in no way approaches that made in shipthe first day, and a greater number of letters and personal ping. applications the next day.

a good carpenter, brought only four replies.

It is altogether probable that in any considerable city in for a fair workman in any trade.

earnings of clerks are nowhere near so large as the earnings of workmen of average skill in the various trades.

Further, it is fairly certain that, with equal capacity, industry, and thrift, the young man who learns any trade will achieve a reasonable competence sooner than the young man than behind the counter or at the desk.

"look above" mechanical pursuits?

Why is it?

Dr. Ad. Offenberg, of Wickrath, Rhenish Prussia.

bit in the heel by a rabid Spitz dog, July 28, 1874. Two serve as switches and depots." days after the wound was cauterized by means of a concenminutes past four in the morning.

The details of the case would be out of place here; suffice it to say that the patient slowly recovered health and strength, isolated convulsive movements of slight severity occurring at intervals until the 24th, while impaired vision and oversensitiveness of the eyes to light continued still longer. On Dec. 3, the wound on the foot being completely cicatrized, and the patient's general health being good, she was allowed to return to her home. By January, 1875, she was able to resume her duties as servant, though her original health and strength were not restored for more than a year.

The case seems to have been one of genuine hydrophobia, notwithstanding the fact of recovery. The circumstance, however, that the patient attended a hydrophobic neighbor (who was bit by a rabid dog a few days before she was, and died of the disease), witnessing his convulsions and other symptoms, makes her case possibly one of simulation.

----EARLY ADVOCATES OF SHIP RAILWAYS.

Since prominence has been given to Capt. Eads' suggestion for a ship railway across the Isthmus of Panama, there have arisen quite a number of claimants to the credit of first proposing this solution to the great problem. Thus far we destroying progress. have seen none antedating the plan illustrated in the first have taken the matter more to heart than the late Horace in this connection.

Mr. Philip C. Friese, in "An Essay on Party," published in monster nursery of American grapes (notably the Jacquez

this city as early as 1856, and copyrighted the year before. While discussing the competence of the general government steady work. The advertisement brought one application increased in size, through many increments, from the slight About the same time a Boston firm advertised for a book. canoe to the vast steam ship, while land carriages had made small remove from the common road wagon. The American During the same month an advertisement for a clerk, in a rail-car now shows a considerable increase in carrying capac-

From this point of view Mr. Friese asked: "Why do we An advertisement for a week in the same city, calling for not construct rail-cars as broad and capacious as steamships? Why do we not dip up steamships from a river or ocean, place them in a rail-car, and whirl them overland to the land, an advertisement for a book-keeper or retail clerk another river or ocean? Is it not pitiful that the swift and will bring fifty times as many replies as an advertisement magnificent vehicles which convey our citizens and our commerce over the stormy deep, and which bear within them the It is also probable that in any and every city the average power to scale the lofty mountains and skim the wide plains of our continent, should be checked in their proud career by a narrow isthmus? Why shall not the same power which turns a paddle-wheel through the water be made, by an easy mechanical contrivance, to turn a driving-wheel on a rail? The same power will be immensely more efficient on a rail who sticks to clerking; while the chances for materially-than on the water, from the fact that friction on a rail is improving one's condition are more numerous in the trades much less than on the water at the same speed, especially at a high rate of speed. Steamships themselves might form Why is it, then, that the boys all want to be clerks? Why the bodies of cars, when placed in a frame, or cradle, over is it that intelligent parents encourage them in looking for a suitable running gear. If the track be made wide enough, chance to "get into business," and in looking down on me- cars may be converted into rolling hotels, two or more chanical employments—as though there could be any calling stories high, and may contain the chambers, parlors, diningmore wretchedly mechanical than average clerking? Why rooms, and other conveniences of steamships, if not of stais it that teachers almost invariably train their pupils to tionary public houses. The great law of economy, in regard to time and power, and fuel and labor, demands the estab-What the country wants now is workmen-intelligent, lishment of broad roads, suitable for ships, and for large industrious, thrifty workmen; men who can do skillfully the cars on the principal thoroughfares, say, on the isthmus work that waits for the doing—who can invent new means routes of Panama, Tehuantepec, and Nicaragua, and on the and better processes for developing the crude resources of trunk, if not on the branches of the great road which must the land, and for converting brute matter into life sustaining connect the Atlantic with the Pacific, across the center of and life-enriching wealth. Mere clerks and record keepers our continent. So the Isthmus of Suez may be overcome are at a discount. There are too many of them. And the by a ship railroad. Unless unusual physical obstacles interprofessions, so called, are almost equally crowded with men vene, ship railroads may connect the Black Sea and the who have nothing to do. There never was a time when Caspian, and perhaps even the Aral, and this with the river ability to do something real and practical was worth so Yang Tse Kiang. There would be as much comparative much as now. Yet our young men swarm after clerkships. saving of time and power and labor by the employment of large cars instead of small ones, as there is in the employment of ships instead of canoes. Large cars could be driven HYDROPHOBIA SUCCESSFULLY TREATED WITH CURARE. with safety at a rate of speed not attainable by small The Medical Record of Aug. 9 gives a detailed report of a ones. If the cars be adapted to steamships, these can leave case of hydrophobia successfully treated with curare, by the Atlantic ports, either going east or west overland, and arrive in the East Indies in a few days, without breaking The subject was a servent girl, 24 years of age, who was bulk. For such a road, rivers, lakes, and inland seas would

It is needless to follow Mr. Friese in his remarks concerntrated solution of caustic potash, and shortly after the girl ing the military and naval advantages of ship railways, or to underwent a course of treatment for hydrophobia. Subse- criticise his sweeping indifference to geographical obstrucquently, for three months or more, the wound was kept suptions. Practical railway men will probably laugh now, as purating under the direction of a local physician. Seeing they did a quarter of a century ago, at the idea of increasing that the case was not receiving proper treatment, the pastor the economy of ordinary transportation by largely increasing of the place brought about the transfer of the patient to a the size of cars; yet it is quite possible that for short porthospital, where she was received October 8. At that time ages, to avoid long voyages, ship railways may be more the wound, on the outside of the left foot, extending from the easily constructed and more economically than ship canals; tendo Achillis over the dorsum, presented a reddish granula- in which case Mr. Friese is obviously entitled to his share ting surface about the size of the palm of the hand. Under of credit for early appreciating their advantages. That the a simple dressing the granulating surface became much idea of such a means of transportation was original with smaller, and until October 16 no change was observed in him is not for a moment to be supposed. The same may be the patient's health and temper. Symptoms of rabies appear-said of Mr. N. W. Evans, who also claims priority in the ed that evening, and by 10:45 P.M. were pronounced and invention, though he first suggested it in 1854, some ten decided. Curare was then injected under the skin, and the years after the project had been illustrated in the SCIENTIFIC dose was repeated several times during the night, with favor-American. Mr. Charles W. S. Heaton, who also puts in a able effects. The last convulsion occurred at twenty-three claim, is fully twenty years behind, his proposition having been made as late as "1864, or early in 1865."

----AMERICAN VINES IN FRANCE.

A notable illustration of the balance between animal and vegetable life under natural conditions is furnished by the power of American vines to withstand the attacks of phylloxera. For unnumbered ages the conflict between the plant and the insect has been going on in this country, the result being the survival of those species of the grape capable of enduring the attacks of the parasite. This power of resistance has been found to reside in the rapid lignifying of the roots of the American grapes, so that the punctures of the phylloxera are comparatively harmless. They affect the outer bark only, causing little excrescences which fall off like warts. European vines, on the other hand, have not been subject to such invasions (until recently), and are entirely unable to cope with the pest. When pierced by the insect the tender roots decay, and the entire plant perishes. The consequence is that having once been introduced in Europe, as it was about twenty years ago, the phylloxera meets with no resistance, and the indications are that nothing short of the extermination of all European vines willstay its

Our readers are familiar with the decision of the French volume of the Scientific American; and no one seems to Commissioners in favor of the substitution of the native grape stocks by those of American origin, as set forth in Day, for he went so far as to take out patents for his devices their official report, translated for the issue of the Scien-TIFIC AMERICAN, dated August 2. Our American Consul at Before that time, however, the project of transporting La Rochelle, Mr. George L. Catlin, now writes that the preships by railways had been enthusiastically advocated by fect of that department has taken steps to establish there a