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Every man who has money to invest always desires to place it where it will make the best return. This being admitted, we undertake to say that \$3, invested in the Scientific American, will return three-fold in the amount of valuable information which its columns supply. Mechanics, inventors, manufacturers, farmers—as well as every head of a regulations. The result was, that while the pesti family-will get, on an average, \$10 worth of information from a year's number of this journal, and yet they can get it for the low sum of \$2 50, in clubs of ten names. -

Talk about high prices-here is something cheap enough to stop the mouths of all grumblers. Only think of it—a large volume of 832 pages, full of costly engravings, for \$3, and less to clubs. It any ot our readers think we, can get rich at such prices, let them try the experiment. Send in your clubs and subscriptions.

# THE CHOLERA COMING.

Next summer we are to have the cholera. Its course so far has been just the same as its course in previous visitations, and next summer it will be due in this country. Thousands of the inhabitants of New York will be in the full vigor of health one day, and the next will be hastily borne to their final resting place. A universal pani: will seize upon our people; all who can get away will flee from the pestilence; business will be prostrated; and general gloom and stagnation will take the place of our present prosperity.

And yet, all this can be prevented. There is no recessity for the prevalence of the cholera in this city next summer. While the causes of most diseases are hidden from knowledge, the cause of cholera has been positively ascertained. It is filth. The proof of this is conclusive. The progress of the direase in its several epidemics has been carefully watched and faithfully recorded; its history is re markably full and minute; and, without exception, it has attacked filthy cities only, and it has prevailed only in the filthy portions of the cities which it has attacked.

We have before us a report made to the Citizens Association of New York, by their Council of Hygene and Public Health, on the subject of the patents. cholera. This council is composed of the leading

tion for learning and character—and their report for patents shall be resident subjects as well as intreats the subject with the masterly ability which was to be expected. It traces the progress of the cholera in each of its visitations, and shows that in all places the one cause of its prevalence was want ot cleanliness.

The following are a few among the numerous facts cited in proot of this:-

"In the city of Buffalo, where there was fearful mortality from the epidemic of 1849, its principal ravages were witnessed in the filthy and undrained sections of the city, and in the purlieus of poverty, vice, and fevers along the canal. In Sandusky, where nearly one-third the resident population died in a single month. Dr. Ackley states that a stench pervaded the streets. At Louisville, Ky., the centers of the epidemic were associated with filth, malaria and crowding. In Cincinnati, where the epidemic killed 5,314 persons, out of a population of 116,108, it was first associated with local filth and crowding. In St. Louis, 4,557 inhabitants perished out of 50,000. Dr. McPheeters reported that the epidemic elected as its chief centers the crowded tenant buildings, the streets and dwellings alongside the stagnant ponds and open ditches that then abounded in that city; also that seven-tenths of the mortality was among the German and Irish population. In New Orleans, when the epidemic appeared, the streets and gutters were filled with filth so that even the Board of Health declared that "the elements of putrefaction had accumulated fearfully in every direction, until the atmosphere was polluted by poisonous exhalations in which a sickly acid smell predominated."

The report then cites numerous proofs that by proper attention to cleanliness, the pestilence may be avoided; we select two of these:-

"In various towns and cities of England, the actual benefits of preventive measures, the sanitary works of cleansing, drainage and ventilation, have been fully tested. For example, the city of Worcester, on the river Severn, having been twice scourged by cholera, undertook to avert the later epidemics by means of effectual cleansing and efficient savitary lence swept through the neighboring cities and villages, the populous city of Worcester escaped, "and the destroyer of uncleanly cities made a passover with the people of Worcester, for on every lintel and door-post was written, 'cleanliness, clean liness.' Not a house was entered, and the town was saved in the midst of the most frightful desola

"In Philadelphia the cholera broke out and made some progress in the districts of Moyamensing and Southwark, where the work of cleansing was incomplete. But the citizens had anticipated the coming pestilence by the most comprehensive and energetic effort to effectually purge their city of all nuisances, and all the known causes that produce or localize disease; 2,970 privies were cleansed; 340 houses were cleaned by authority; 188 ponds were drained; 66 rag and bone shops were closed, etc., and in all the city removed upward of 6,000 separate sources of nuisances and disease. Cholera sent but 474 persons to their graves in Philadelphia, while in the city of New York it claimed 5,071 dead."

Is there not in this energetic community, sufficient energy, is there not among this provident people enough provident spirit, to arouse us to take hold of the work, and avert this awful pestilence, when it can be so surely done?

## RECIPROCITY WITH THE CANADAS.

It is represented in one of the morning papers that the committee on reciprocal relations with the Canadas have nearly agreed upon a basis for a new

The people of the States have no unkind feelings toward the Provinces, and will not oppose any welladjusted system of reciprocity. We only need to be assured that the treaty is really one of reciprocity, and no opposition will be made to its ratification. We desire to call the attention of the committee having the matter in charge, to the importance of securing, among other things, reciprocity in regard to

The Canadian Patent Law is now the most illiberal physicians of the city—men of the very highest posi- in existence, requiring, as it does, that all applicants | paid-

ventors of the things for which patents are sought. This practically excludes our citizens from the benefit of the law, and leaves our neighbors over the line free to appropriate our inventions without let or hinderance. Efforts have been made, from time to time, to secure an amendment to this unjust law, but to no purpose.

We have been regularly consulted, for years past, in reference to a bill to amend the Canadian patent laws, so as to open the door to inventors of all countries, but our advice has been wasted upon a set of sharp legislators who evidently preferred to allow their people to help themselves to whatever valuable inventions they could pick up on this side of the line. Now, inasmuch as there seems to be no prospect of getting a reciprocal law, let us, by all means, secure it by reciprocal treaty. We trust that the committee will not overlook this important subject.

#### EXHIBITORS AT THE FRENCH FAIR.

Mr. James W. Tucker, a citizen of the United States, but for many years past doing business as banker and commission merchant at No. 13 Faubourg, Montmartre, Paris, is now on a visit to this city, and intends to offer his services to all those who propose to exhibit at the approaching French Exposition. We have known Mr. Tucker for many years, and can vouch for him as a gentleman of high character. Every thing indicates that the exhibition is to be one of the wonders of the world. And it is especially important to those of our countrymen who intend to send articles for exhibition, that they should have a good representative in Paris-one who thoroughly understands the country and its language. Mr. Tucker may be addressed to the care of W. A. & M. White, No. 63 Broadway.

## PETROLEUM AS YUEL.

On another page we publish an illustration of a new plan for burning petroleum by mixing it with steam. In connection with the illustration is a statement by Mr. Latius W. Adems of an experiment conducted by him, which gave a result of 29 3 pounds of water evaporated from a temperature of 60° with one pound of petroleum: equal to 32,820 pounds of water raised one degree of Fahrenheit's scale, or 18.233 pounds raised one degree of the centigrade scale. In the delicate experiments of Favre and Silberman, where the whole heating power of the fuel was utilized, it was found that pure hydrogen gas would heat only 34,462 times its weight of water one degree, C., while hydrocarbons, similar in constitution to petroleum, heated only 11,858 times their weight of water one degree, C. As in Mr. Adams's experiments, a large portion of the heat generated was wasted by passing out of the chimney, and byradiation, it would be satisfactory to receive a more minute account of the methods by which he reached his astonishing results.

### PROSPERITY AND ADVERSITY OF INSURANCE COMPANIES.

The insurance companies of this city received during the fiscal year ending June last the enormous sum of \$27,513,582 for premiums on the policies iseued from their offices. This amount does not include the great number of offices in Brooklyn, Hartford. Philadelphia and other places, who have agencies in this city, which would swell the amount many millions more.

Notwithstanding this apparent prosperity of the insurance business in this city, the losses during the rear preceding July, 1865, were immense. The Columbian Insurance Co., notwithstanding its annual receipts of upward of four millions for premiums, has been obliged to succumb within a few days. owing to the immerse marine losses sustained by

Some of the off companies of Pennsylvania make a deplorable exhibit to the Auditor-General. The law requires them to assess their stock at a valuation so that the tax can be adjusted. The same stock which a few months ago was represented to be cheap at ten dollars per share, is no w valued by the same directors at five cents per share, and at this last assessment many of the laxes are computed and