is worth its face in the markets of the world: with business in social science are in their nature both scientific and no longer perplexed and crippled by an uncertain and fluc. philanthropic. What can be more prosaic than to be tuating standard; with credit which, according to Daniel inspecting the entries and drains of tenement houses, Webster, is 'the vital air of modern commerce,' upon a the condition of sewers and water pipes, or inquiring sound and stable basis; with restored hopefulness and con-about the rent of dirty rooms, the cost of pauper relief, tem and a system of international coinage based on the unit fidence, shared alike by the capitalist, the business man, and the labor or idleness of a population hanging on the verge by the laborer; with agricultural crops and products abundant and readily salable at fair prices; with our manufactures Associations of England and America, the only ones in the seeking and finding a market in foreign countries to an extent never known before ; with our natural burdens of debt and taxation becoming every year less difficult to manage | read a paper on "International Coinage," and also presented and carry; with our country maintaining honorable and his paper on "Monometallism, Bimetallism, and International peaceful relations with all mankind; the merchants, the Coinage," prepared for the Association for the Reform and manufacturers, and the working men of Cincinnati may Codification of the Law of Nations, at the August meeting well be congratulated that at such a time their countrymen in London. Mr. Barnard proposes to make one gramme of have assembled from far and near to enjoy and be instructed by this great Exhibition. We thank you for the invitation national coin of ten grammes, equal to \$6 less two cents. which we in such countless numbers have accepted ; for your hospitality, and for your welcome to Cincinnati, a city on "Modern Education, its Opportunities and Perils," which which, standing, as it does, nearer than any other great city was read in his absence. One of the great perils was found of Christianity and the common law; Dr. Wharton, of to the center of the population of the United States, may be rightfully called the 'Central City of America.'"

#### COPYRIGHTING FRUIT.

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One of our contemporaries published a long account the adequate training in genuine scientific methods. other day of an Illinois nurseryman who claims to have secured a copyright on the propagation of certain varieties of cherries.

Our newspaper neighbor copied from the nurseryman's catalogue a description of his new cherries as follows: the degree-conferring power, they would do no harm, and "Please take notice that the names, description, and num- might, perhaps, do some good. France, Germany, Italy, bers of these cherries are copyrighted, and therefore my in- and other countries of Continental Europe, are full dividual and exclusive property, and any one infringing on j of lycées, gymnasia, and colleges, where instruction in all to be in more doubt about the value of his copyright, for has thirty-seven. All France, with a population of decided effect in that direction. he asks fruit growers to make a bid for the latter, but adds 36,000,000, has only fifteen universities, which, moreover, that no offer of less than \$50 for a State will be accepted. | are actually branches of a single one. Germany, with a Not crediting the advertiser's statement of having a copyright population of 42,000,000, has only twenty-two universities, that no such copyright has been granted from either bureau. 3,000,000 people. Our own country, with a population of tarded or even stopped. For many years the subject of protection to horticulturists 45,000,000, has 425 universities, or one to every 100,000 people. way of affording protection to such discoveries.

## Sounding Niagara River.

The United States Corps of Engineers has recently had held in check by insufficiency of means. the Niagara river sounded, a task never before accomplished, owing to the bungling and unscientific means employed by female suffrage in connection with school elections, in which those who attempted it. Bars of railroad iron, pails of he urged that women should vote and hold office in school stones, and all unreasonable bulky and awkward instruments matters, because they in general far surpass men in educahad been attached to long lines, and cast off the railway tional ability, tact, experience, knowledge, and wisdom. very bulk of the instruments was sufficient, no matter what This point was put in a decidedly novel way. He said : small lead weighing twelve pounds, however, and a slender of little consequence. The schools were then properly, cord, the depths from the falls to the lower bridge were necessarily, under the charge of men. Now that women easily obtained. One of the sounding party says that the are men's peers, and more, as to culture, and receive this approach to the falls in a small boat was made with great culture chiefly at the public charge, there remains no reason which passed rapidly down and told off 83 feet. This was ciaries." they rise like ocean waves to the height of twenty feet.

of pauperism? Yet this is exactly what the Social Science world, have been doing."

The second day, President Barnard, of Columbia College, gold the standard of value, and to have the smallest inter-

President Porter, of Yale College, presented an able paper in the circumstance that in aiming to be too scientific in Cambridge, the various theories of punishment for crime; form, modern education often fails to be scientific in fact— Frederick H. Betts, of New York, the policy of the patent due very largely, we apprehend, to the antecedent circum- laws; and Professor Woolsey, of New Haven, read a paper stance that the text book makers and teachers lack an on the United States and the Declaration of Paris in 1856.

power in American colleges formed the subject of another paper by President Barnard, who thought that if the multitude of superfluous collegiate institutions were deprived of in some degree correspondent to their responsibilities; but the latter. we have not one whose power of usefulness is not constantly

George T. Angell, of Boston, President of the Massachu- iron that was needed in ten days. setts Society for the Prevention of Cruelty to Animals, presented the results of his investigations into the manufacture and sale of poisonous and dangerously adulterated articles. At the close of the paper, Mr. Henry C. Meyer, of this city,

The subjects considered September 11 covered a wide range, embracing questions of public health, law, the protection of workmen in mills, the treatment of criminals, and the like. Resolutions were adopted favoring the metric sysproposed by President Barnard-the gramme weight of gold nine tenths fine. The sewerage of village cities was presented by Colonel George E. Waring, Jr., and discussed by several members. It was also commented on at considerable length by Professor Acland, of the University of Oxford, England. The history of the tenement house system of New York was presented in a paper on the sanitary condition of tenement houses, by Dr. Charles P. Russell, of this city.

Professor William Watson, of Boston, read a report on the "Protection of Life from Casualties in the Use of Machinery," in which he reviewed what has been done in this country and abroad toward the prevention of such accidents, and described various devices for covering dangerous machinery.

President Anderson, of Rochester, discussed the relations All the principles of the Declaration of Paris were declared The regulation and control of the degree-conferring to be in accord with the spirit and policy of our government.

### RECENT INVESTIGATION INTO THE ACTION OF ANÆSTHETICS.

The third report on the action of anæsthetics to the Scientific Grants Committee of the British Medical Association has been made recently, the report embracing the results of investigating the condition of the blood pressure in animals my rights under the copyright laws of the United States, will branches is as extensive as in the average American college, under the influence of chloroform, ethidine, and ether. The be prosecuted," after which follows a list of his copyrighted and generally a great deal more thorough, but which are experiments were made upon rabbits and dogs, and seem to cherries, which he offers to sell the trees of, to nurserymen in without power to confer degrees. The British colleges can have been performed with great care. The facts obtained different states after they have purchased the copyright to not confer degrees, not even those which form a part of the from the observations, says the Medical Record, warranted grow them. He describes some forty-five new varieties, great Universities of Oxford and Cambridge themselves. the committee in reaching the following conclusions: Ether, and says he shall produce some twenty more next year. The All England, with a population of 23,000,000, has only four when administered to animals, has no appreciable effect in advertised price of the trees is 50 cents each, but he seems universities; the State of Ohio, with 3,000,000 population, reducing blood pressure; chloroform and ethidine have a

Chloroform has sometimes an unexpected and apparently capricious effect on the heart's action. The occurrence of these sudden and unlooked for effects are a source of serious on his cherries we have caused search to be made in the Lib- or one to 2,000,000 of inhabitants. All Europe, with a popu- danger, because the blood pressure is with great rapidity rerary of Congress and also at the Patent Office, and we learn lation of 300,000,000, has only 101 universities, or one to duced to almost zero, while the pulsations are greatly re-

By ethidine the reduction of blood pressure is not, so far and others for new varieties of fruits and flowers has been dis- Further on, he spoke of the general weakness of our over as has been observed, through sudden and unexpected decussed, but the difficulty of defining such discoveries, they numerous degree-conferring institutions, and remarked that pressions. Chloroform may cause death by primarily parabeing gradually brought to their perfection by the experi- a university, in a proper sense of the word, is a costly established by the experi- Although not free ments of different gardeners, has prevented the possibility lishment. It cannot be created by a mere act of legislature. | from danger on the side of the heart and the respiration, ethiof legislation on the subject, and there seems no practical A fiat university is worth no more than a fiat dollar. We dine is, in a very high degree, safer than chloroform, inashave some universities in this country whose resources are much as the former does not compromise the heart as does

A legitimate deduction from the facts given is that ether is by far the safest of the three anæsthetics used, and that Professor A. P. Peabody, of Harvard, read a paper on ethidine is much safer than chloroform, and equally efficient.

## A Notable Feature in the Iron Trade.

Some of the features of the present advance in iron, remarks the Iron Age, are worthy of note. It will be found bridge and elsewhere, but positively refused to sink. The The work is proper for women, and they ought to do it. upon inquiry, that in the case of most mills the increase in the volume of business has not come from gaining new custheir weight, to give the powerful under-current a way to "When our public schools came into being they were not tomers, but from increase in the orders of the old. There buoy them up upon the surface, or near it. By means of a meant for girls, the education of women being regarded as may be some exceptions to this statement, but it will hold true generally. This indicates that there has been a decided increase in consumptive demand, and that both consumers and jobbers believe that this is a good time to stock up and to place orders for future consumption. Another difficulty. Great jets of water were thrown out from the why they should not render to the public the reciprocal feature of interest is that the increase has come without falls far into the stream, and the roar was so terrible that no service of control, care, and government in the educational much drumming for trade; that is, the buyers have sought other sound could be heard. The leadsman cast the line, system of which they have become the most favored benefi- the sellers-a most healthy indication. It will be further found that, so far as price is concerned, the sellers are more quite near the shore. Passing out of the friendly eddy. Chinese immigration was discussed in a long paper by conservative than the buyers. This is a somewhat parawhich had aided them in approaching the falls, they shot Professor S. Wells Williams, of Yale, who advocated the doxical statement, but manufacturers are holding back, and rapidly down stream. The next cast of the lead told off admission of the Chinese to citizenship when they desire it. are more fearful of the effect of a too rapid advance than the 100 feet, deepening to 192 feet at the inclined railway. The He claimed that the Chinese here are under the strongest consumers. The true secret of many of the advances that average depth to the Swift Drift, where the river suddenly national sanction of any race, and ought to be protected. have taken place during the past six weeks, will be found in becomes narrow, with a velocity too great to be measured, | They came here at the invitation of our own people, and the offers that buyers have made for iron for immediate dewas 153 feet. Just under the lower bridge the whirlpool brought with them industrious and quiet habits, and have livery. We have mentioned a case where 2 20 cents was rapids set in, and so violently are the waters moved that added largely to the resources and wealth of this country. offered when 2 cents was the usual selling price, for a lot of

Here the depth was computed to be 210 feet.

## THE SOCIAL SCIENCE ASSOCIATION.

The annual meeting of the American Social Science Association began in Saratoga, September 9, with a fair attendance of members. F. B. Sanborn, the acting Secretary, read a report giving an account of the origin, aim, and and could discover no such general system of adulteration scope of the organization, which now has members in thirty-<sup>1</sup> as Mr. Angell reported.

# **Glass Shoe Patterns.**

The question sometimes arises whether a patent can be obtained for the mere substitution of a special material for ansaid that he had investigated Mr. Angell's previous state- other in the manufacture of a well known article. In reply, ments in regard to adulterations, and had tests made, we may state that if the Patent Office is satisfied that in consequence of the substitution a new and important result is obtained, a patent will be allowed. A recent case in point eight States and Territories. Touching the definition of In the evening the President of the Association, Professor is that of an applicant who asked for a patent for making in common use; and that there could be no invention in

social science, Mr. Sanborn said: "By strict rules it must be Gilman, of the Johns Hopkins University, Baltimore, deliv- shoe patterns of glass. It was alleged against the applicant admitted that the term 'science' cannot be applied to our ered the annual address. His subject was "American Edu- that glass patterns had been previously used for cutting out pursuits in the same sense that it describes the researches of cation during the last Decade." He took the ground that photo print ovals; also that sheet metal shoe patterns were the geologist, the chemist, or astronomer. There is a margin, the American public school system never stood so firm, or however, in social science for much besides the close induc- worked so well, as now. The most noteworthy administrative merely substituting therefor such a well known substance as tive or deductive processes by which Newton, Agassiz, or change of the decade has been the admission of women to sheet glass. But the Commissioner decided that the use of Faraday arrived at their splendid results. The methods of the local school boards of Massachusetts, and the opportu- glass shoe patterns was a useful novelty, sufficient to support acquiring all human knowledge are essentially the same. nity afforded them in the same State to vote for school a patent, because such patterns enabled the cutter to see any The conduct of a nation in a grave political crisis is officers. The most noteworthy pedagogical movement has defects in the leather and move the pattern to avoid them, not to be calculated like the elements in an eclipse, yet it been in the introduction of kindergartens, and in the atten. which he could not do with the ordinary patterns. So the i patent for glass shoe patterns was allowed. may be foreseen within certain limits. Many problems tion bestowed upon drawing and vocal music.