the world. One who wishes to invent an exclusive mark ious influences are dust and irrespirable and poisonous gases. needs to be careful that any words which enter into it are Hirt observed on himself and young firemen an increased employed in an entirely arbitrary and fanciful sense. In frequency of pulse and respiration, pain in the knees and the one case reported during the winter, the mark was the calves of the legs, exhaustion, weariness, and excessive thirst tion in 1869, over twenty-one miles at once, and afforded phrase "Rye and Rock," applied to a composition of and nausea, which, however, soon disappear. Whenever he whisky and candy. A very entertaining argument, which, traveled thirty-five to fifty miles without a stop, vertigo was for its humor and literary brilliancy, attracted a good deal perceived, associated with violent roaring in the ears, and he of attention among lawyers, was made to show that this felt the urgent need of something to cling to. In addition was an arbitrary phrase; but the court considered that it to these symptoms, we have in the case of engineers and was somewhat descriptive of the components used-rye firemen the mental exertion of the most careful watchfulness whisky and rock candy; and that whoever used those ele-| and uninterrupted exertion of the higher organs of sense. ments in a similar beverage, had the right to use the same Regarding the results of long years of traveling on the endescriptive phrase. Similar was the decision where a cloth- gine, Hirt says that, taking all in all, an engineer who avering merchant called his store the "Tower Palace." The ages seventy-five miles daily, or, in round numbers, 25,000 court said that the phrase was in its nature descriptive of miles a year, may be as sound and robust after twenty years' the peculiar architecture of the building; it might be exag- service as he was in the beginning, providing he was then gerated, but it was of descriptive tendency, and therefore healthy and that he has met with no accidents. If we exthat when the clothier moved away from the building to amine, says Hirt, a large number of engineers who have another stand, he could not object to his successor's con-been long in the service we find that a majority of them are tinuing to use the name. So the letters "IXL" have been robust, sunburnt men, with well developed facultics, good pronounced no trade mark, for the reason that their sound digestion, and in an excellent state of health. The minority, gives them a meaning, and they have been widely used upon however, in whom we see the disastrous results of their callvarious goods. But a cigar dealer who styled his cigars the ing, must not be forgotten. "Pride Cigars," was sustained in his exclusive claim, because "pride" has no natural proper meaning in such con- service should be examined by a competent physician, who Metropolitan Railway Company, for taking possession of a nection. There have been one or two decisions that an arbi- should test them with special reference to their hearing. He trary number-such as "523"-distinctively or fancifully also advised that the company's physician should report to printed, may be protected. There are two English decisions the superintendent of the road every case of deafness discovgiving considerable support to the idea that a peculiarly ered in trainmen, provision being made for the transference woven, party-colored border or selvage of calicoes, woolen of men of impaired hearing to other positions where perfect cloth, etc., may be a trade mark. The names "Family hearing is less vitally important. Salve," and "National System of Penmanship," have received protection to a certain extent.

Within a few years past there have been two or three attempts on the part of manufacturers whose patents had plements clean. Sometimes, however, the patient is Jisexpired, to sustain or continue to control the article, by gasted with the sight of more or less ancient blood stains on of their excellent excellent qualities, or through fear of seriasserting the exclusive right to the name as a trade mark, but such attempts have not been successful in the courts. Another decision of this class has just been made relative to of an accident to a Bangor dentist which suggests the query And really the difficulty of telling edible from poisonous the Singer sewing machine. As every one knows, the Singer Manufacturing Company had, for a term of years, the hazard of the patient's life when the surgeon is not careful poison ivy and harmless ampelopsis, or between the wild monopoly of making the Singer machines, by virtue of the with respect to the cleanliness of his implements. In the and cultivated parsnip. A very little attention to the subject patents; but, when the patent expired, rivals entered upon the business, and, naturally, advertised theirs as Singer man instrument used by the dentist while filling a tooth, resulted most common varieties as readily as he now tells the vegechines. One of them was sued by the old company, which in a serious case of pyzemia. In this instance the dentist was tables from the weeds in his garden. It may be added that, claimed that it had the exclusive right to the name Singer as the sufferer. Suppose the poisoned tool had pricked the gum in fact, the cultivation of the mushroom has been mainly a trade mark. But the court decided that the word "Sing- of the patient? Whether the poison came from the diseased restricted to a single species, so that most people who are er," as applied to sewing machines, is in the nature of a tooth then being operated on, or was due to some previous description of their kind and character; hence, whoever has operation, does not appear, and would not much matter to a the right to manufacture machines of that kind has the patient who should be poisoned in that way. In either case right to advertise and sell them under the designation common in the market. After the patents expired, any person however, it would make a great difference whether the who chose might lawfully make these machines, and, as a patient furnished the poison or the dentist. It goes without consequence, the descriptive name became common property.

A person need not conduct the manufacture himself in order to enjoy an exclusive trade mark on the goods. Such at least is a decision by the New York Court of Appeals. A chemist, who had devised a serviceable composition, sent the recipe to Paris, where the article was manufactured, and he imported it in quantities from time to time, and arranged for its sale by various druggists throughout the country. He had an interest in these sales. As soon as it became popular others commenced making and selling it, and they used his peculiar name for it. He sued; and the infringers contended that, as he was not the manufacturer nor the seller, he could not complain. But the court decided in his favor, saving that the advantage of a trade mark does not necessarily consist in indicating the manufacturer. It may be useful as identifying the quality of the article; and when this is the case, it may be of value to any person interested in putting the commodity upon the market, and he may be miles of it are never seen by tourists at all, for the reason State and the adjoining Territory where this metal may be the rightful owner of it.

DEAFNESS AS A CAUSE OF RAILWAY RISKS.

Dr. Lawrence Turnbull, of Philadelphia, lately read a beds is what is known as "Audubon's Avenue," the first paper before the Pennsylvania Medical Society, calling atten- passage to the right after entering the cave, and therefore tion to the hazards to life and property due to deafness on quite convenient of access. This avenue is said to be about the part of railroad men. Locomotive engineers, firemen, half a mile long, and formerly cottages stood at its entrance, and conductors, he said, are liable to affections of the ear, built for the use of consumptive patients, under the erroneous with decrease of hearing, such deafness appearing to be, in impression that the chemically pure air and the uniformity some pests, says the writer, I found a sure preventive of his estimation, more dangerous than color blindness as re of temperature would more than compensate for the absence gards the signal code, because the latter is usually a congeni- of sunlight and the cheerful sights and sounds of the upper tal defect which can be defined precisely before the indivi- world. The cottages are now forsaken and most of them duals are placed on active duty, while the deafness is an demolished, and the long tunnel beyond contains little of acquired discase, but slow in its approach and sometimes special interest, unless it be the swarms of bats that hiberunknown to the person affected; and a cold or injury diminnate in what is for that reason called '' The Great Bat Room.'' $% \mathcal{A}^{(n)}$ ishes the hearing more and more, or destroys it completely, The rich deposits of bat guano, that have been accumulating if it is not properly and promptly treated. for centuries, lie as yet undisturbed, and if properly mixed After citing cases which had come under his personal with other fertilizers, might no doubt be used to facilitate notice, and referring to the reports of Professor S. Moos, of the propagation of fungi. Heidelberg, with respect to cases of railway accidents The soil, which at present is extremely dry, might be through deafness, Dr. Turnbull dwelt at length upon the easily moistened to any desired degree, as was done in workevidence collected by Ludwig Hirt. ing the saltpeter mines in former days, by conducting water In order to gain an unprejudiced opinion, Hirt traveled through pipes from the cascade at the mouth of the cave. repeatedly on the locomotive. His longest uninterrupted The idea of thus turning caverns to profitable account for journey covered 325 English miles. He notes the following the cultivation of mushrooms, though new in America, has causes which act on engineers and firemen when traveling: long been a familiar one in France, and has been demon-First, the violent concussion; second, the uninterrupted strated to be entirely practicable. One of these caves, at eight barges carrying freight as follows: 160,000 bushels of straining of the eye and ear; third, the cutting air (less Montrouge, is said to have six or seven miles' run of mush- wheat, 140,000 bushels of corn, 5,000 barrels of flour, 3,000 noticeable on the engines provided with a protecting roof); room beds, and the daily yield of marketable fungi is about sacks of bran, 6,000 sacks of oats, 5,000 packages of general fourth, the continuous erect position; fifth, the frequent 400 pounds weight. Another such cave, near Frepillon, is freight. The total tonnage exceeded 10,000 tons. Most of change of temperature. The occasional troublesome or nox-reported as sending, on favorable days, as many as 3,000 the gram was for export.

DANGERS OF DENTISTRY.

Usually dental surgeons take great care to keep their imforceps and other implements which are to go in his mouth. A correspondent in Maine submits a local newsp aper report

the injury might be fatal. From a moral point of view, saying that untidiness in the dentist's chair is dangerous as well as disgusting, and should not be tolerated.

A MUSHROOM FARM IN MAMMOTH CAVE. BY H. C. HOVEY.

A novel proposal has lately been laid before the trustees of Mammoth Cave, Kentucky, and is now held under consideration by them with some prospect of a favorable answer. An enterprising Frenchman, who has already had experience in mushroom culture in the vicinity of New York city, complains that he finds no cellars sufficiently large for his increasing business, and also that the conditions of temperature sources of the metal that may be discovered. The Standand moisture are not uniform enough to insure the best ard, of Portland, Oregon, states that certain heavy black results; and therefore seriously offers to rent a portion of the particles associated with gold in that State, and hitherto cave for the purpose of raising such varieties of edible fungi as may be found best suited to the locality.

the wonders of the great cavern to visitors. Many square that their time is usually limited, and they have enough to do to follow the guides through the selected routes. The portion mentioned as possibly to be devoted to mushroom

pounds of mushrooms to the Paris market, from beds aggregating sixteen miles in length. Still another, at Mery, and belonging to M. Renaudot, is said to have had under cultivaemployment to a large class of laborers, who devoted themselves wholly to the business of raising mushrooms, not only for the French markets, but also for exportation. One house alone reports 14,000 boxes of preserved mushrooms as sent to England in a year.

The special advantage of subterranean over open air culture lies in the fact that, owing to the uniformity of temperature, which in Mammoth Cave hardly varies from 56° Fah. either winter or summer, the business can be pursued with equal success at all seasons of the year and in all kinds of weather.

It is the supposition that when choice mushrooms are known to be raised by responsible parties, and with every guaronsee of freedom from the admixture of poisonous fungi, they would find a ready market in Louisville, Cincinnati, and other Western and Southern cities: or, if not, they could be hermetically sealed or made into catchup and easily sent to more distant markets, where such esculents are appreciated. The business has become highly remunerative in England as well as France; a fact brought out lately in the trial of the mushroom nursery, showing that this curious branch of horticulture yields from 150 to 200 per cent. One witness is quoted as saying that, "if \$250 were expended, in twelve, or possibly in six months, the sum of \$1,000 would be realized.'

It is probably an error to regard the economic value of fungi as of unimportant character; and it is worth considering, in these days, when so much has been said on the importance of multiplying the materials of cheap and wholesome food, whether such immense quantities of nutritious fungi ought to be annually lost, either by reason of ignorance ous consequences arising from eating those kinds that are unfit for food. Caution should not degenerate into prejudice. whether there may not be danger of blood poisoning to the fungi is no greater than that of discriminating between the case reported the accidental pricking of a finger with a sharp will enable any one to tell at sight a few of the best and fond of it, will hardly recognize any other as fit for food: while there are many varieties of esculent agarics known to the mycophagists, some of which, no doubt, might befound by experiment to be as suitable for cultivation as the common Agaricus campestris.

Our knowledge of American fungi is known to be extremely meager, being mainly limited to the results of researches in the Carolinas, Texas, and Cuba, made by Curtis and Ravenel; and a wide field of investigation is open to any competent person who will specially devote himself to this branch of botany.

Increased Importance of Iridium.

Mr. Holland's process for fusing and moulding iridium enormously widens the scope of the useful applications of iridium, and gives increased importance to any natural supposed to be iron, have been found to be iridium. The Standard says that the iridium appears as a black shiny This will not in the least interfere with the exhibition of sand in the gold washings, in particles a little coarser than blasting powder, and adds: "There are portions of this found in abundance. So that we have in our midst an undeveloped source of wealth that may outshine anything ever before known."

Moth Preventive.

A correspondent of the Furniture Gazette recommends the following remedy for exterminating moths in carpets and furniture: After some years of experience with the troublemoths in pitch paper, the same as roofers use. The moth will live and grow on cayenne pepper and tobacco, while I never could see that the use of these articles kept the moth miller out. The plan for the furniture dealer or housewife is to cut the paper in slips and place about the room, under and behind sofas, chairs, etc.; this should be done as early as the middle of April, and in warm climates earlier. If the dealer wishes to make parlor suits moth proof, he should place on the inside of backs of chairs and seats, small strips of the pitch paper, and rest assured that the miller will not select these places to deposit eggs. It is the miller that is the foundation of all the mischief.

A Heavy Mississippi Tow,

The towboat Oakland left St. Louis for New Orleans May 15, with the heaviest tow yet taken seaward that way, namely,