ciples of life. But whatever be the subject, let the thoughts pursue it with a consistent progress that shall eventuate in some real benefit to the mind.
Similar in nature and importance is the habit of rapid and accurate observation, the great value of which was the subject of an address to the Dairymen's Association, delivered by Hon. Horatio Seymour. In the course of his remarks, he said

It seems singular that some men pass through life without observing things which come before their eyes almost daily. An intelligent farmer once told me that he would not recognize any of the horses belonging to his neighbors, excepting those noticeable from some peculiarity of color. A Chicago merchant, who daily drove his own horse eight or ten miles, told us he had never noticed any difference in the movement of horses: did not notice the difference between trotting and pacing. A college president is said to have made the question 'in which way do the seeds lie in an apple?' a test of the habit of observation among his etudents. Our tests with this question would indicate that more than one half of the average men and women either don't know, or will answer incorrectly. We once received a well written essay on the value of observing closely, yet there was not a capital letter or a punctuation mark in the half dozen pages. Many such instances could be given, were it necessary.

- This matter is not one of slight importance. The care fully observant man will see things which will be of pecuniary importance to him, while his ill trained neighbor may lose by not seeing. The farmer with habits of observation will notice slight symptoms of illness in his animals or plants; will readily see the effect of this or that practice : will much more quickly discover countles
, may result in serious loss
As in the case of habits generally, much can be done in childhood, and it certainly should be the duty of parents and other teachers to help children to learn to observe carefully, quickly, accurately. It is told by some one that in his childhood he practiced running past a shop window and then stopping to describe as many articles as he could recall, and in this way he açuired wonderful quickness of observation. 'There are hosts of points to which a farmer's boy should have his attention called at an early age. Suggestions as to the mode of growth of plants, the form of a leaf, growth of a fruit, or the pointing out of peculiarities of different classes of animals, may do him great good in developing this habit, and also have a marked effect in interesting him in his calling.

، This habit of observation should not be confined to the things we see alone, but should extend to the things we hear, and those we read as well. In thislatter matter, there is great lack. Many read to little profit lecause they have not trained themselves to observe carefully.

## $\mathfrak{C}$ orrespoudente.

Notes From Washington, D. C.
In addition to the bill given in sour issue for February 13, another has been introduced by Mr. Archer in the House, amending the acts relating to trade marks and labels, which provides for the registry of trade marks, labels, or stamps, for terms of thirty, ten, or five years, on payment of fees of $\$ 25, \$ 10$, or $\$ 0$, according to the length of the time applied for; but only half of the two first sums has to be paid in advance. It also provides for reissues and appeals to the District Courts for such cases, in the same manner as in patent matters.
Another bill, introduced by Mr. Hoskins, provides for the patenting of any new and valuable fruit or plant, for the term of seventeen years, with the privilege of an estension for seven years more.
In the Senate, a bill has been passed enacting "that the act approved March 9, 1868, authorizing the issue of a patent for induction apparatus and circuit breakers shall not be construed as authorizing the issue of a patent for any inventiou applicable to telegraphic apparatus; and any issue, under color of said act, of letters patent for any such invention applicable to telegraphic apparatus, is hereby declared to be null and void, as contrary to the meaning and inten. tion of said act of March 9. 1868." This has reference to the patent grauted to C. G. Page for his induction apparatus and circuit breakers, so extensively used in telegraphing.
Mr. Storm has introduced a bill into the House, which en-
acts " that it shall not be lawful hereafter for any person acts " that it shall not be lawful hereafter for any person
who has been appointed, or who may hereafter be appointed, who has been appointed, or who may hereafter be appointed, as an officer, clerk, or employee in the Patent Office, to act as counsel, attorney, or agent for prosecuting any application for a patent, or an estension thereof, which was pending in said Office while he was said officer, clerk, or employee, nor by any means to aid in the prosecution of any such application, within four years nest after
ceased to be such officer, clerk, or employee.'
A resolution has been adopted by the House, on motion of Mr. Young, of Georgia, "directing the Commissioner of Patents to inform the House whether patents are now issued for chemical compounds; and if not, why not?"'
From all appearances, it would seem that the sewing machine lobby would fare badly, the Senate committee having reported adversely on the Wilson extension; and the House committee have agreed to report the same way, though, I believe, they have not yet done so. The temper of the Senate in this matter of sewing machine extension was shown
in the case of John W. Marsh's application for an extension in the case of John a patent on a trimming attachment to sewing machines,
whicl came up on Monday last ; and although no opposition Whicls came up on Monday last; and although no opposition
was made, the bill was refused a third reading by the sig nificant vote of ayes 13 , noes 23 -the fact that it had something to do with sewing machines being sufficient to kill it. Notwithstanding this, it is possible that the Wilson extension may go through, as it is said that $\$ 200,000$ have been raised to influence the right parties to work for its passage; and they will do all that can be done to put the case through. As "there's millions in it," those engineering the matter will
do their best, and, by watching their chances, as they did with the Batchelder extension, may succeed in their nefurious endeavors.
The German Parliament has passed an act to protect trade marks, which takes effect May 1 next, and our Consul General ut Berlin has sent to the Department of State a translation thereof. The leading features, so far as it relates to persons not residents of Germany, are as follows: "The trade marks of non-resident traders are not entitled to protection in Germany unless they are registered in the Court of Commerce at Leipsic, and unless German trade marks are in like manner proteeted in the country of the non-resident seeking protection in Germany. The non-resident it also diction to file a declaration that he will submit to the juris the provisions of said acts, and to furnish proof that in his the provisions of said acts, and to furnish proof that in his
own country all the conditions are complied with under which own country all the conditionsare complied with under which the non-resident can claim protection for his trade marks.
The right of non-residents to use a trade mark in Germany The right of non-residents to use a trade mark in Germany
is limited to the same period of time as is allowed to them in their own country.
Those of your readers who are interested either in art mathas secured a contract to execute a bronze statue, of heroic size, of Admiral Farragut, for which she is to be paid $\$ 20,000$. The bill authorizing this statue was passed some three years since, and a number of models were sent for inspection, in compliance with a general invitation given to artists to compete; but the committee in charge of the matter failed to agree, and at the last session the selection was referred to commission, consisting of the Secretary of the Navy, Gene ral Sherman, and the admiral's widow, who awarded th
contract to Miss Ream.
Occasional.

The American Insitute Rotary Engine Tests.

## To the Editor of the Scientific American:

It is an unfortunate trait in the genus homo that, as a rule he suffers defeat with a bad grace; and it appears to be an established fact that it is the American specimen which invariably takes the longest time to arrive at a knowledge of of the fact that he is beaten in a contest. This peculiar feature of American human nature was quite felicitously illustrated in a conversation of the writer with one of the judges at the late Fair of the American Institute, who had servedin that capacity forseveral successive years; he said, in effect, that when he essayed to judge of the merits of several competing exhibits, he always made up his mind, $a$ priori, that, when his judgment was rendered, he would probably be named by all but one of the contestants in terms which, well, would not be appropriate in a religious, or even a scientific, journal. He, in that remark, illustrated very well the chief difficulty under which the American Institute and all similar bodies labor; and it appears to have been no better exemplified anywhere than in the case of the rotary engine tests at the late Fair.

After the results of these tests became known, two of the defeated contestants, and particularly the second best, made quite earnest attempts to bring discredit, by charges of unfairness, upon the writer; and now I see, by an editorial article in your issue of February 20, that, notwithstanding that the original recalcitrants were most irrefragably put to rest by the proper documentary evidence before the Board oi Managers of the Institute, there yet remains another malcontent.
The article referred to (" Metaline, and the American Institute "), if not intended, is nevertheless calculated, to reflecupon me, notwithstanding the saving clause (" certainly in one acquainted with the gentleman will venture the assertion that he could be biased, even in prospect of a possible fat commission "); and I desire in reply to it, and in order to calm the troubled spirit of your protestant, or any one else who may be disposed to make themselves unhappy over the themethod in which they were conducted, and the precautions taken against possible cavil. The reference to some supposed negotiations of stock, and subsequent business retations of mine with the proprietor of the successful rotary
engine, strikes me as a very absurd kind of innuendo: some thing out of the line of the Scientific American, and alto gether foreign to the usual good sense displayed in its editorial columns: I will, therefore, credit it to you in that view.
The writer, in the capacity of Superintendent of the Machinery Department of the American Institute, was directed by Professor R. H. Thurston, Chairnan of the Committee of Judges, and by the Board of Managers, to test the competing rotary engines as to power and economy, and report the re-
sult to the Committee. In accordance therewith, I made all arrangements for and supervised parsonally every trial. I therefore hold myself responsible for any error or unfairness, if such can be shown. Professor Thurston, with his customary acumen and forethought, in consultation with myself, decided to send four of the graduating students of the Stevens Institute to attend each of these trials, in order, first that the results might not be questioned by the defeated contestants. and, additionally, to give the young men an op-
portunity to acquire a little practical information of a kind not so readily obtainuble for them at the Hoboken Institute. Asanadditional precaution, one of the young men, at the conclusion of the trials. made copies of the log , and placed them in possession of Professor Thurston, where they now are. The original logs were left in my possession, from which to compute the results, and are now, with my official report, as a compendium of the report of the Committee of Judges, in possession of the American Institute.
The apparatus used was identical in every case, with the single exception of the brake, a different one being used with wo of the defeated engines, in deference to the wishes of he exhibiters of them. When the engines had been run a sufficient time preceding the test to insure average conditions, the control of all instruments and apparatus, together with the recording of all data in the log, was turned over to the four young men above mentioned; and thence to the conclusion of the trial (five hours in each case) I had nothing more to do with it than to see that my instructions, and those of the Judges, were carried out.
Now unless the party from whom you " hear of a protest" intends to impugn the integrity of the young men (some 8 or 10 in all) who actually conducted the trials, as well as my own, he had better hold his peace; and he has every oppor tunity to check them for himself by consulting the copy of the logs in the possession of the Chairman of the Committee if he is inclined to doubt the correctness of those at the American Institute.
In a word, I have to say to all (if there are any more) who may be inclined to feel discontented and uncomfortable on this subject that, if they will point out any irregularity or unfairness in these trials, or errors in the results obtained by me, I shall at all times be ready to answer any and all ques. tions; and much desire that the " protest" you mention may make its appearance in some more tangible form than to bo merely heard of.
New York city.
John T. Hawbins,
late Supt. March. Amer. Inst. Fair.

## \section*{Air Currents and Air Floats.} <br> To the Editor of the Scientific Amevican:

It is an ascertained scientific fact that the ocean and the atmosphere are correlative in their therinal values. The temperature of the water regulates the temperature of the air. It salts the air as well, and is of vast importance, in this regard, to the products of the soil and the constitution of the animals abounding adjacent to its direct influences.
Along our Atlantic sea board, we have a Gulf Stream pour ing its equatorially heated water northeastward to the coast of Newfoundland, whence it is projected over the Atlantic to the coast of Ireland. It is a warm river, of several hundred miles in breadth, running across the Atlantic.
This river is as available for the tloating of air ships from our sea board to England as was (and is yet) the Mississippi for floating flat boats from the Falls of St. Anthony to New A balloon, kedged in this stream, will necessarily flou along its isothermal line, and it will foat much faster than the stream, since the warm air correlated above it will flow in the direction of least resistance, which has an eastward tendency. Can we kedge the balloon in this ocean river: More easily than the water ship can be kedged to the chanel of the winding river down which it floats.
With the device termed a droge, a conically shaped bucket foat, open at jty wide end, suspended at any dewired distance from the lallonn and fastened with two cords (one at the point, the other at the open end), it is easy to increase or ighten the burden of the balloon; in other words, to let her up or down without a discharge of ballast or gas. Professor Henry hints at the possible contigency of the interference of a cyclone in such an adventure. That is very thoughtful, but the same contingency holds with regard to sea ships as well. To the balloon, it would not be disastrous, as all the cyclones in this latitude are inevitably dragged eastward by the normal motion of the atmosphere, a meteoric fact to often witnessed with my own pyes while sailing in thei vicinity, in their midst, or in their front. I know very wel that they turn round on their common centers, and that they have innumerable vortices on their peripheries. The dpstructive vortices are caused by the interruptions on the surface, and would not, even if they pxtended to the hight of he balloon, be dangerous to it.
Where there is a will, there is a way. Is there not in the land sufficient meteorologic intelligence,coupled with bounteous generosity, to send an air-tossed veteran through this channel for exploration, or some other willing adventurer more competent tha
Philadelphia, Pa.

JoHn Wise

## Nitroglycerin as a Motor

## To the Editor of the Scientific Americon

The idea (originating in a fertile French mind), of superseding steam by an explosive compound far more dangerons than gunpowder, may seem vague; and yet I can see but one bstacle to be overcome in order to make it a success.
The danger of untoward explosions may probably be voided by keeping the components of the compound in sep arate tanks, and bringing them together in the cylinder.con inuously, as required.
The wants of elasticity and the suddenness of expansion of this powerful substance will probably cause an unsteadiness of motion too violent to be overcome by ordinary machinery, and herein consists the great impediment to its use. And yet it may not be impossible to counteract this defect by employing heavy governors and fly wheels, and by also keeping
the amountof the explosive(letinto the cylinder at each stroke
of the piston) down to the minimum, so that it will be required to expend itself in keeping up continuous motion. In adapting machinery for this use, the size of the cylinder could be reduced in proportion to the increase of the potency per square inch of nitroglycerin over steam.
In regard to the necessity of keeping the constituents of ilis potent substance in separate vessels until required for use, it is a marvel why this has not been required by law long ere now, as the frequency of awful explosions and the destruction of life and property are sufficient to call public attention to the subject. One might naturally suppose that Van Winkle vacation from his public duties.
an Winkle vacat.
St. Albans, Vt
Chamlas Thompson.

## Hor the scientiac ANTS

Every reader is familiar with the ants, at least as referred to in the Book of Proverbs, vi., 6: " (1o to the ant, thou eluggard; consider her ways, and be wise." Again, in xxx. dij, we find: "The ants are a people not strong, yet they pre piare their meat in the sumnter." Thus the Scriptures have noticed the habits of the ants, and their wonderful instinct has been described in several articles published in the Scientific Americin, 'The common ants, however, belong to the family fromicidur, or genus formica, while my subjec matter relates to the white auts, which must not be confounded with the common ants, as they belong to a differen family, the termitidce, genus termes.
Those who are curious to read the wonderful accounts of the warrior termites (termes bellicosus, of smeathman) will find the memoir of Smeathman copied in numerous works on natural history (Maunder ; F. A. Pouchet, M. I., in the work called the " Universe," etc., page 185; Westwood, F. L S., who, in his " Introduction to the Modern Classification
of Insects," vol. II, page 11, illustrates and describes several of Insects," vol. II, page 11, illustrates and describes several
species, all foreign to the Inited States). Mr. Fitch, in his reports on the noxious and other insects of the State of New York, section 196, says: "American white ant, termes frontalis, Haldiman (neuroptera termitid(t): Myriads of white ants, mining in and wholly consuming the interior of fence posts and stakes, while the outer surface remains entire.' He also says it " is the only species of white ant which we have in the Tuited States." These creatures I have been familiar with for some years, finding them in my rambles arnong decayed logs in the woods; but have not made microscopical examinations of the various individuals compos ing the colony, as I have of those I shall now introduce.
My neighbor, Mr. (ieorge Hensel, has an extensive green house, and knows how to manage it. He set aside (on broad shelf, covered with sand and loani, perhaps two inche deep) some choice pelargoniums for cuttings, also sonse ge nary flower pots. The latter plant was set in its pot upon a empty inverted pot of the same size. Mr. Hensel discovered that these plants, from some unknown cause, were drooping, and to his surprise, in a few days after, discovered that nothing but a thin shell, apparently sound on the outside,
was left of the roots and lower portion of the stem. He was left of the roots and lower portion of the stem. He
noticed among the dêbris and soil in the pot, a minute ant like creature, to which he called my attention; this led me to investigate, and I found that these minute, blind crea tures do all their mischief under cover; they build tubular pendant passage ways (from an upper to a lower field of ac tion) by agglutinating particles of sand, actually forming hollow "ropes of sand" (in which they ascend and descend) eighteen inches long. Under the, sand on the shelf referred to, were tunnels as straight and direct as any engineer could make them, opening up directly under the hole in the bot tom of the flower pot, by which they made their insidious approach to the root and stem of the plant it contained; and from this point beneath the pots, three to five such channels were noticed, radiating to various intersecting tunnels. But the most remarkable engineering skill was discovered in the inside of the inverted flower pot. In order to gain access to the roots of the echeverria above mentioned, their tunnels ended on the inner side of the pot at four points; then a tubular column of sand was constructed against the side of the pot (to which it was glued) to within a few inches of the top then the tubes were built inwards, and met around the hole in the center of the bottom of the inverted pot, through which they established communication with the upper pot; und thus these sappers and miners, with consummate skill, made their attack se completely under cover that no one would suspect their presence, and without injury to the external epidermis of the stem of the plant. Their excavations are all confined to the interior of the plant, in this case a highly succulent one, belonging to the natural order of house leeks (crassulacerr). The fact that they killed one aozen \&boice plants during December, 1874, proves them to be dangerous insects in the greenhouse. Numbers of winged specimens were discovered in the greenhouse on December 18 ; these shed their wings in the course of a few hours, and dis appeared. Mr. Hensel tells me that he has for years known the common white ants; but the males and females became winged in May, and confined their mining to dry soft wood only. Köllar, in his treatise on insects, mentions the they cause great damage to the olive trees." He writes also of a third species, which he termed termes flavipes, "found
 in the hothouse of the imperial palace at Schonbrunn. where
they were, no doult, iutroduced with foreign plants. This species does noinjury to the living plants, but gnaws througia the tubs in which they stand, and the other woodwori of the houses,
I mention these facts simply to warrant me in expressing
my opinion that this is a new species, notwithstanding that an eninent entomologist (to whom I presented the facts), on inspection, believes that they are the same as those mentioned by Mr. Fitch, as the American white ant. In that case one thing is certain, they have acquired a new taste, and now relish living, succulent plants, instead of dead and dry
wood; or if they had such a taste before, it was unknown wood; or if they had such a taste before, it was unknown to our entomologists. Harris does not mention them in his work, that I can see; nor does any one else allude to thei tioned by Kïllar, on the olive.
It is well to give publicity to these facts; perchance the same may have been experienced in other hothouses withou same may have been experienced in other hothouses
The ants figured by Westwood and other authors are simi lar to these, except the class called warriors, with their enormously large heads, fully equal to one half of the whole insect. These do not have the curved or sickle-shaped jaws crossing at the regularly curved tips; but the jaws are stout, long, and parallel to each other, straight out, but nearly bent at right angles at the tips, which also cross each othe near the points. The workers have also very large heads with no traces of eyes visible on them. The soldiers, called, are also similarly remarkable, and are all of a uni form dirty white color. Mr. Hensel tells me that the winge members were of a darkish brown color. There seem to
be four distinct classes in each colony (Latreille says five, but he includes the larvæ), pupa, neuters, males, and fe males. They are sufficiently remarkable, and, in scientifi engineering, they put to blush some of our learned tunnel ers, who, with all theireyes wide openand instruments, can not excel them in finding a point, and hence the ants are entitled to enter an appearance in so classical a paper as the Scientific Americian.
Lancaster, Pa.

## A Harvest for Plumbers.

The long continuation of intensely cold weather has cansed great troulle and discomfort in this city, by the freezing of water in pipes. Probably in more than half the houses the water in pipes has been frozen, or the pipes otherwise disabled. The trouble is generally in the street, where the pipes are most difficult of access, and it arises from the reprehensible practice of builders, who, after attachingthe supply pipe to the main, carry the former up to within two or three feet to the main, carry the former up to within two or three feet
of the surface of the street and then run it to the house, of the surface of the street and then run it to the house,
instead of running it in a direct line from the main pipesinto the basement of the house, which is always so far below the street as to obviate all liability of freezing.
Persons erecting their own dwellings generally see to having the supply pipe laid as low as the main, or sufficiently deep to prevent the liability to frost; but builders who erect houses to sell save a little by avoiding excavating deep) enough to lay the supply pipe below a freezing point, and hence the cause of so much trouble in our households. At the present time there are not good plumbers enough in the city to attend to all the demands, and those skilled in the business are put to their wits' end to execute all their or ders

## Errecte of Polsons on Molluses.

Professor William Norti Rice,of Middletown, Conn., states that among the most interesting results of his experiment was the observation that certain poisons, which act witin extreme riolence upon the mammulia, are very feebie in their action on mollusca. This is especially true of hydrocyanic acid and woorara. Specimens of illyanassa obsolete, immersed in dilute hydrocyanic acid on Friday, showed somewhat feeble signs of life on the following 'luesday. A specimen of lunctia heros, into which a quantity of woorara had been injected, was found the next day to show no sign of any injury. Indeed, both of these poisons seemed to produce death very little sooner than the animals would have died in stale water. The sudden introduction of a large amount of carbonic acid in the manner whirh has been described, scemed produce no decided effect. On the other hand, chloral with it becoming instantly contracted, and not resuming their activity when kept for a number of hours in sea water Cyanide of potassium is similar in its effects, though not quite so instantaneously fatal. The effects of quinine are similar, though less energetic. (hloroform produces in stantaneous contraction, and probably death.

## Mammoth Cave Fishes.

Interesting additions to our knowledge of the fauna of the Mammoth Cave have recently been made by Mr. F. W. Put num, of Salem, Mass., who, as a special assistant on the Ken ucky State Geological Survey, of which Professor N. S Shaler is the director, had great facilities extended by the pro prietors of the cave, and he made a most thorough examina tion of its fauna, especialls in relation to the aquatic animals Mr. Putnam passed ten days in the cave, and by variou contrivancessucceeded in obtaininglarge collections. He was which only one small individual had heretofore been known and that was obtained several years ago from a well in Leb
anon, Tenn. This fish, which Mr. Putnam had previously described from the Lebanon specimen under the name of chologaster Agassizii, is very different in its habits from the blind fishes of the cave and other subterranean streams, and is of a dark color. It lives principally on the bottom, and is oxceedingly quick in its motions. It belongs to the same
family as the two species of blind fishes found in the cave family as the two species of blind fishes found in the cave
He also obtaincd five specimens of four species of fishes that
were in every respect identical with those of Green river
showing that the river fish do at times enter the dark water of the cave, and when once there apparently thrive as well sthe regular inhabitants. A large number of the whit blind fishes were also procured from the Mammoth Care and rom other subterranean streams. In one stream the blind fishes were found in such a position as to show that the could go into daylight if they chose, while the fact of finding he cloolugaster in the waters of the Mammoth Cave, where all is utter darkness, shows that animals with eves flourish there, and is another proof that color is not dependent on light. Mr. Putnam found the same array of facts in regard to the crayfish of the cave, one species being white and blind, while another species had large black eyes, and was of various shades of a brown color. A number of living speci mens of all the above-mentioned inhabitants of the water mens of all the above-mentioned inhabitants of the waters
of the cave were successfully brought to Massachusetts after of the cave were successfully brought to Massachusetts after
having been kept in daylight for several weeks, proving that all the blind cave animals do not die on being exposed to th light, as had been stated.-Nature.

## SCIENTIFIC AND PRACTICAL INFORMATION.

a tunnel undele the straits of gibraltar.
$\Lambda$ company has recently been formed in Spain, under the the of the Inter-Continental Railway Company, the main object of which is to unite Europe and Africa by a tunne under the Straits of Gibraltar. This one,as projected,is to be a right line, extending between Tarifa and Algesiras on the Spanish coast to Ceuta and Tangier on the Morocco shore The submarine portion will be 44,160 feet in length,or nearly nine miles.
This enterprise offers more difficulties than the simila work under the English Channel, although the latter will have more than twice the length. The maximum depth o the Channel at the point to be traversed is but 163.2 feet while that of the Straits is 2,021 feet. Supposing that the tunnel under fiibraltar be bored at a distance of 1,000 feet under the bed, its total depth under the sea level would 'e over 3,600 feet, while the entry and exit galleries would be each three miles in length.

## slilpilit ana fire extingeisher

M. Tellier suggests the use of sulphur as a means of ex tinguishing fire on board ship. The material when burning in the air, as is well known, generates sulphurous acid, in which flame is not sustained. M. Tellier proposes to cover wicks with the sulphur, and to let them down into the burn ing portion of the vessel, through holes in the decks. Sixty six pounds of sulphur ignited will entirely absorb the oxygen in 3,860 cubic feet of air; but as only half the oxygen need be removed in order to render the atmosphere unfit to support the combustion, thirty-three pounds are sufficient for the volume mentioned.

## Stove Manuracturers in Council.

I'he stove makers of the United States recently held a con rention in Chicago, and adopted the following resolutions ' Your committee will call to your notice the question of guaranties exacted, by the retail dealers throughout the country from manufacturers, relative to the breakage of castings. Your committee are fully satisfied that the persistent claims
made upon our trade for castings to be furnished free of cost made upon our trade for castings to be furnished free of cost upon the simple demand of the retail dealer, and under whatever pretext, has become burdensome and oppressive, and
your committee respectfully recommend that in future all your committee respectfully recommend that in fut
guaranties of this character be wholly discontinued guaranties of this character be wholly discontinued. great importance of procuring the passage of a law by the great importance of procuring the passage of a law by the
Congress of the United States for the protection of the trade against those persons who take our castings and file and fit the same for the purpose of making duplicates therefrom, and supplling the retail trade in the various towns and cities of this country at prices far below the cost of such castings in our own founderies. Every member of the con-
vention must sec and feel the great importance of an effort upon the part of not only the convention, but of every mem upon the part of not only the convention, but of every mem-
ber of the organization throughout the ccuntry, to put an ber of the organization throughout the ccuntry, to put an
end to this unwarrantable confiscation of our rights as manufacturers and dealers.'
The latter resolution was referred to the Executive Committee. We do not see what more effective laws the stove manufacturers can wish for their protection than they now have. Under our existing patent laws, the most ample prohave. Under our existing patent laws, the most ample pro-
tection is afforded the inventor for either any new construction or any ornamental desigu.
scheditle of prices
The Committee on Prices submitted the following report, which was unanimously adopted:
"Your committee, having carefully considered the subject referred to them, recommend the adoption of the following basis of prices: The price on common stoves to be $6 \frac{1}{4}$ cents; odd plates 8 cents : with a suitable amount added for plated odd plates, 8 cents: with a suitable
knobs, reservoirs, and other extrc.s.
The convention adjourned to meet next June at St. Louis.
Oun staid cotemporary, the Boston Laily Advertiser, in alluding to the impracticable measures under discussion by the gd'ocates for rapid transit in this city, and the twaddle on the subject in the daily newspapers, thus sums it up
"If they want quick transit in New York, why don't they stop talking and go to work and get it? If they are only foolmg, they had better go to a business medium. She will doubtless trance it as quickly as anybody."

On February 10, a fire broke out in the city of Port au Prince, Hayti, caused by the explosion of a kerosene lamp and the result was that a large portion of the city was de stroyed. One thcusand buildings, mostly frame, were burned. The city an thorities will now, probably, be willing o purchase fire engines, of which they were almost entirely to purcha
destitute.

