## Western Correspondence.

CINCINNATI, Dec. 7, 1847. GENTLEMEN :- As Southern Manufactures seem to be attracting your notice, I will give you a little note of some West, in a region distant. Here a magnificent building five stories high, well proportioned, and shewing as near as I could count them between ninety and one hundred and twenty five light windows on one side, and the steam puffing away give signs of a busy scene within. The building is covered with slate. Around it seems a handsome village of white cottages, all new as if they had sprung into existence yesterday. called at the coal landing near the factory, and took in tow a coal boat having coal on its deck, for which we paid six cents per bushel, or about \$1,68 per ton. This coal is becoming a general steam boat fuel, and I learn the demand cannot be supplied. I learn there is a very extensive coal mine here, the place is culled Boni arbor, and is owned by a chartered Company, called the Bonharbor mining and Manufacturing Company, who have a very large body of land connected with it. One of the owners came on board at a little town just above and travelled with us to Louisville. From him I learnt that great pains had been taken to get up the establishment well with all the modern substantial improvements in machinery, and that with hands newly learnt they were now doing good work, and making goods equal if not superior to any in market. The building I am informed, is calculated for seven thousand spindles is only partially filled, and will be gradually filled as hands can be learnt, and the machinery put up.

The calculation is to make this a western Lowell, they say they have a cheaper power from steam, than any water power ; as evigetting the coal from the mines, into which per bushel.

Surely with such cheap power, on the banks of the Ohio, there must be great reason to expect the rise of a large town. The owner aforesaid informed me that he estimated the cost of delivering cotton from the plantations to their factory the same as that of delivering it at New Orleans. The advantages he estimates over the Northern manufacturer are ding defiance to the clouds of heaven and Eagle freight of cotton to Boston and Lowell, return freight, of goods to New Orleans, and up the Mississippi, and Ohio, with baggage, storage, commission, insurance, damage, and so forth and so forth constituting a charge of one dol., the beautiful stream rippling down the bank lar per hundred and one and a half returning near by. This burning mass seems to have making fifty dollars per ton, and when in full embraced the roots of the tree, robbing old operation they expect to manufacture a ton | Sol of his power, warming it into summer life and a quarter of cotton per day, which in a years work would be a saving of near twenty in all probability will soon cover it with a it is positively necessary to all who would her head for a fool. He called the wolf, and thousand dollars. That again being along side beautiful foliage." of the cotton, they can, at any time, in a few days obtain a supply, and make their goods meet their expenses. This is an immense saving of expense ; as one evidence, he named, that his last purchase of a very prime article of cotton was at six and three quarters cents his previous not two weeks before was at ten cents. He only bought from day to day, while cotton was up, but laid in large supplies while it was low. He thinks his proximity tomarket for buying cotton, and selling goods, fully equal to one cent per yard beside the carriage. This seems rather a heavy estimate it true where five or six thousand yards per nough to attract any amount of capital. Why py girl, and we care not who worships fashsuch an enterprise should have remained to this late day is strange.

A revolution in manufacturing must occur Eastern cost.

A TRAVELLER epistle.

## Southern Oorrespondence

DEAR SCI.-The rain almost without intermission continued to fall during tour days, consequently the rivers forming branches of the tios of chemical bodies which are expressed obtain. It generally attacks persons between Ohio, swelled that river to an almost incalcula- by numbers. As the mathematician is guided the ages of 15 and thirty; some have been ble inundation all along the banks of the ri- by measurement, the chemist is guided by known to have it at the age of sixty Sympto wit : on the Ohio River, below Louisville, ver. The Monongahela and Alleghany rivers weight-the former measures, the latter toms-absence of mind, giving things wrong in Kentucky, one hundred and sixty miles meet at the fort at Pittsburg, forming the mouth of the Ohio. All the villages and towns method of research pursued in the two scien- A great fondness for poetry and music, gazing situated on the banks of the river, were flood- ces. Hydrogen gas being the lightest body in on the moon and stars, toothache, loss of aped, Steubenville, Wellsburg, Martinsville, and nature, and combining in the smallest propor- petite, neglect of business, loathing for all around Wheeling. Cincinnati was in a terrible condition, and no freshet has ever occurred to the same extent since 1832. A sad catastrophe took place on Saturday morning and is represented by 10, and when hydrogen sleeplessness, and all that sort of thing. At while the ferry steamer Island Packet, was gas is compared with it in equivalent ratio, it times imagination bright, bowers of roses, preparing to leave the island side of the river is represented by 1.25, the proportion in winged cupids, and battered peas; then again There is also a steam saw-mill, and our boat crossing over to Wheeling, her boilers burst. and sad to relate, a son of Mr. Clark's (a be used, such as 1000, it is thus explained in triggered pistols. Cure-to get married.very respectable farmer on the Island, a nall equivalent ratio; water is composed of one Ex. tive of Edinburg, Scotland,) was lost in the ri- part hydrogen to 8 parts oxygen, therefore, ver, beipg blown over. Another individual. whose name was unknown, was also lost.-Neither bodies have yet been recovered. The cause of this sad accident is said to have been the want of water in the boilers.

We have had a great freshet along our river, which, thank God, has now fallen, altho' I am sorry to say, not without many sad evidences of its destructive effects.

BRAMBLE BRAE. Lewisburg, Ky., Dec. 15, 1847.

# Spontaneous Combustion.

The Springfield, Mass., Gazette relates the following singular case of spontaneous com- in its proportions always-no alteration. Pure bustion which is not a little interesting to the, water is the unity of 1 part of hydrogen to 8 lovers of sciontific research :---

hill is a deep hollow or dingle, down the bank is composed of of which the waste dirt of the shops (consisting of old woollen rags, and cotton waste par-! tially saturated with oil, particles of iron, &c.) has from time to time for a long period been thrown, until a large quantity of it has accudence, one hand can mine more coal than mulated. This mass of rubbish some six weeks is used by their large double engine and one since took fire spontaneously, and has been man is fireman and engineer. The cost of constantly burning since, notwithstanding the late powerful and heavy rains. Wednesday the railroad runs, as the coal is mined out of last being the regular monthly meeting of the the side of a hill, is not one quarter of a cent Eagle Fire Co. No. 1, Capt. Tower determined to try his skill with the devouring element. After throwing on to the burning pile vast quantities of water, which seemed to have the effect to concentrate the heat rather than quench it, it burst torth from the uppermost point, ejecting fire, steam and smoke to a considerable height, giving us a beautiful miniature volcano. It still continues to burn, bid-Co. No. 1. On the bank immediately over the burning pile is a magnificent elm, beneath the shade of which in bye gone days, many a workman has repaired to refresh himself from and expanding its buds almost to bursting, and

### The Happy Girl.

Ay, she is a happy girl-we know by her fresh looks and buoyant spirits. Day in and day out she has something to do, and she takes | saw a man in Georgia who was bitten by a hold of work as if she did not fear to soil her rattlesnake in the foot, and saved his life by hands or dirty her apron. Such girls we al-1 taking spirits of turpentine in as large doses tracted to build a ship of 600 tons to be namways love and respect wherever we find them as he could swalow them. The poison had ed the Jenny Lind. She is intended for the in a palace or a hovel. Always pleasant and always kind, they never turn up their noses! ting pains before he began to take the turpenbefore your face or slander you behind your tine. back. They have more good sense and better We have seen the account of another cure \$2,500 damages of a Dr. Grover for mal prac-

## Reprove not Angrily,

where such advantages exist. Brother Jona- angry, what will you get by it, save some of son is prussic acid. than in New England has hardly greater ad- the foam of his overflowing rage cast upon vantages over John Bull, than brother Jona- you? As God is said to have come down in Association no less than 2,500 people have re-than of the West has over him. Her provi-<sup>1</sup> the cool of the day to reprove Adam, so like-1 ceived relief and assistance from it last year. From Pittsburg I may give you another within, for then there is the greatest probability, of rightly influencing them.

# For the Scientific American. Chemical Formula.

There are what are termed equivalent raweighs. This constitutes one difference in the names, calling tears nectar and sighs zephyrs. tion by weight with other simple bodies, it things, save one; blood-shot eyes, and conhas been taken as a standard of comparison. stant desire to sigh. Effects-a strong heart Oxygen has been taken as a standard by some burn, pulse high; stupidity, eloquent eyes, which it combines with water. If decimals oceans of despair, racks, tortures, and hair-

: : .889 Oxygen Hydrogen : : .111 1000

There is a great difference between chemical and mechanical mixtures, and yet the two are embraced in the science of chemistry. A mechanical mixture signifies the mixing of one or more substances, such substances being capable of mixing together in different quantities, such as our atmosphere, which is composed of 79 parts nitrogen by measure and 21 oxygen, but these two gases will mix in other quantities. But a chemical mixture is definite parts of oxygen always, and all the acids are

"A tew rods north of the Armory on the definite in this relationship. Thus nitric acid Oxygen gas .858

Nitrogen : : .142 10.00

and suppose there were the double of oxygen added to this, it would be found that the union of these two gases to form nitric acid would just be in the proportions above; this then is a chemical mixture, while a mechanical mixture is like mixing a drop of alcohol in a glass of water. All salts are combinations of two or more bodies, therefore always in definite proportions, never otherwise, and this is very requisite information to any person.

In making out a chemical formula by decimals, it should be done thus : Nitric acid is composed of 1 volume of nitrogen or azote, and 2½ of oxygen. The relation in which these two stand to one another is 2 of azote to 5 of oxygen; therefore the total is 7 parts. Take then a volume of this acid represented by 1000 and divide by 7, thus-1000

Then 142 6 each part, and azote being 2 and oxygen 5 parts, the result of the formula is-

Azote 2×142.6=285 5-7 Oxygen 5X142.6=714 2.7

1000

wish to be acquainted with chemistry, and to | asked him. He said 'No,' and he tore him to make outa chemical tableot equivalent ratios. pieces for a flatterer. At last he called the

Cure for Rattle Snake Bites.

A correspondent of the Nantucket Inquirer a cold and cannot smell.' advanced up his leg, and gave him excrucia-

employment. What are flirts and bustle- said to be effected by drinking alcohol. It is tice. bound girls in comparison with these? Good well known that the poison is more fatal actrue where hve or six incusant yards per day are made, the gain is very great, and discusting. Give us the industriance the i day are made, the gain is very great, and disgusting. Give us the industrious and hap-when added to the saving in freight, seems eupon the physical state of the person or per- all that floats upon its bosom, along with it to ons bitten. Olive oil is said to be good, the ocean. when rubbed hot on the wound and taken in-Chide a man for being angry when he is wardly at the same time. Probably the poi-

> By a Report of the New York Charitable the end without comfort, improvement is demanded.

Chart of Health.

A complaint of the heart, growing out of an inordinate longing after something difficult to

## Surgical Operation.

About three months ago aays the Albany Knickerbocker, a little child of Mr. Thomas Gale, 32 Water street, swallowed a cent, or, rather partly swallowed it, for it has remained in its throat ever since .- Numerous physicians have been called in, but without producing any relief whatever-in the mean time the little sufferer was gradually wasting, and in a few weeks more, if relief had not been afforded it would unquestionably have gone to the tomb. Fortunately, Dr. March, the most eminent surgeon in the country, was called in yesterday, and in less than two minutes removed the painful obstruction, and placed the little fellow once more on the road to health and longevity. The instrument the Doctor made use of, was a long slender probe with a hook to it.

### Queer Description.

A Western editor says "A violent gale has just passed over us, and nearly destroyed one half of our beautiful village, and turned a great number of our inhabitants homeless and houseless into the streets-many of our old garrets were filled to suffocation by pcople with their gable ends out.-Ex Paper.

The above description of a gale, is a mate to the description of the city of Albany, which we remember to have seen in Brook's or Spofford's or some other old Gazateer, in which it was stated, that a number of Dutch houses, and a certain number of inhabitants, all standing with their gable ends to the street.

French and English Row at a Railroad Meeting

At a meeting lately held in Paris consisting of the stockholders of the Bolougne Rail Road there was very near a fight between the English and French stockholders, There = 142.6 were 516 French votes and 417 English opposed to each other. The French endeavored to resist the attempt of the English to address the meeting in their own language.

### Political Prudence.

Wise men say nothing in dangerous times. The lion called the sheep to ask her if his The above may appear dry information, but breath smelt; she said, 'Aye,' and he bit off | fox, and asked him. ' Truly, said he I have

## Jenny Lind.

Mr. Donald McKay of East Boston has confreighting business, and will hail from Bos. ton.

Barzillia Howard of Portland has recovered

A Christian should be like a river, which

Without fema le society, it has been justly said, that the beginning of men's lives would be helpless the middle without pleasure, and

"The last word" is the most dangerous of sions of all kinds are at less than one half wise we should come in the cool season of a The same report brings more and more to light infernal machines. Husband and wife should man's passions, when all is quiet and temperate the miserable and uncomfortable dwellings no more fight to get it than they would strugin which our laboring classes reside. A great gle for the possession of a lighted bombshell. Punch.