

ishment prevailed. Toby, afterward ascertained to be the dog's name, was seized, and his days were numbered. Since his capture, papers have been received regularly, and peace and contentment reign in the neighborhood.

SCIENTIFIC AND USEFUL.

An electrical apparatus, to be placed in the holds of ships, for the purpose of giving warning in case of leakage, has been devised by M. Sartals. On the entrance of the water a current is established, and a communication is thus set in operation, which gives notice to the officers on deck.

Two continuous strikes and dearth of labor have led, in the mines of Blanz, France, to the adoption of a self-acting coal-boring machine, which excavates the same quantity as twenty men. The inventor is, we believe, Mr. Robert Winstanley, the younger, who patented his invention two or three years ago. The machine is reported to work admirably.

Messrs. J. H. and J. Reynolds, of Brixton, have patented an invention in England, for which they are obtaining a patent also in the United States of America, to secure safe railway travelling at a hundred miles an hour. This invention is an addition to engines, carriages, and permanent way, to enable trains to reach their termini in from two thirds to one-half of the time usually occupied.

At a recent meeting of the Frankfort Polytechnic Association, Professor Batzger exhibited a novel kind of ink, which is admirably adapted to take on journeys and exploring expeditions. White blotting paper is saturated with aniline black, and several sheets are pasted to form a thin pad. When wanted for use, a small piece is torn off and covered with a little water. The black liquid which dissolves out is a good writing ink. A square inch of the paper will give enough ink to last for considerable writing, and a few pads should be all that an exploring party need carry with them. As water is always available, the ink is readily made.

SUGAR A TEST FOR POTABLE WATER.—From an article on "The Discrimination of Good Water and Wholesome Food," in the *Pharmaceutical Journal and Transactions*, we find the following simple directions given for testing water, whether it is good and drinkable:—"Good water should be free from colour, unpleasant odour, and taste, and should quickly afford a good lather with a small proportion of soap. If half a pint of the water be placed in a perfectly clean, colourless, glass-stoppered bottle, a few grains of the best white lump sugar added, and the bottle freely exposed to the daylight in the window of a warm room, the liquid should not become turbid, even after exposure for a week or ten days. If the water become turbid it is open to grave suspicion of sewage contamination; but if it remain clear, it is almost certainly safe. We owe to Hensch this simple, valuable, but hitherto strangely neglected test."

The French Academy of Sciences has conferred the prix Barbier upon M. Andant, who, in conjunction with M. Personne, the chemist to the *Hopital de la Pitié*, has recently discovered an antidote for poison by phosphorus. As is generally the case, the discovery was brought about by accidental circumstances. A man had swallowed a large quantity of phosphorus with the intention of destroying himself, and finding the notion of the poison too slow, he took about fifteen grammes of essence of turpentine, which counteracted the effect of the phosphorus as if by magic. This occurrence came to the knowledge of Mr. Andant, who investigated the matter, and ascertained that turpentine checked the combustion of the phosphorus. M. Personne took the matter up, and his experiments on several animals confirmed the accuracy of the conclusions arrived at by his *compère*. The efficacy of this antidote against the external action of phosphorus has long been known in Germany, for in the manufactories where the latter is much used the workmen carry around their necks a phial containing essence of turpentine to protect the bones of the face from phosphoric action.

HOW A SURGICAL DISCOVERY WAS ACCIDENTALLY MADE.—The *Aeratische Hausfreund* is responsible for the following account of the cruel misdeeds of a brutal woman leading to the discovery of an important method of performing painless surgical operations.

A wicked stepmother placed a net upon the head of her eleven year old stepdaughter, and compelled her to wear it for two weeks continuously. On the 5th of March, 1872, the girl, suffering with headache, was brought to the clinic of Professor Dr. Dittel. Dr. Dittel made a careful examination of the head and found a deep furrow plowed into the head, at the bottom of which was the elastic cord of the net, covered with little cancrules. The poor girl died of inflammation of the cerebral membrane, and upon dissection it was found that not only the pericranium but also even the skull bones were out through as if with a sharp saw. This proved that a furrow is excited by elastic cords, and since then Dr. Dittel has employed them for cutting off tissues and removing swellings and tumors. By this gentle means, the patient does not lose a drop of blood, suffers scarcely any pain, has no fever, and soon gets well. This method seems to have a great future in store for it. Many patients are so horrified by the sight of the dissecting knife that the date of their recovery is postponed by it, even if they do not faint quite away.

HUMOROUS SCRAPS.

"A GOOD square meal, \$1; a perfect gorge, \$1.50c." [Sign in Michigan.]

SEE how wonderful are the ways of Nature in Illinois. A pair of boots costs just two loads of potatoes, and to raise potatoes just wears out two pairs of boots.

ONE of the bluest Bostonians, on being requested by a rich and vulgar young fellow for permission to marry "one of his girls," gave this reply, "Certainly; which would you prefer, the housemaid or the cook?"

THE captain of an ocean steamer says that on Sundays at sea he always selects some clergyman to preach who looks as if he would get sick very easily, thus avoiding long sermons, and sparing the feelings and temper of his hearers.

WHEN you see a man who is hastening across a street to avoid a team, step on a piece of mud, and lose his balance, and come to the earth, and tear the skin from both his wrists, and smash his head against a post, you want to shout as quick as possible: "The more haste the less speed." Then you want to pick up your feet and get out of that neighborhood like lightning.

SOME chap thought he would play a joke on Brigham Young, so he gained access to the list of his wives, and added twenty-seven, named Mary Jane Young, Josephine Ann Young, Sarah Melinda Young, and so forth. The next time Brigham called the roll twenty-seven didn't answer to their names, so he concluded they had died since the last roll-call, and putting a few inches of crape on his hat, he looked as sad as possible, but has not yet detected the joke.

A FARMER and his wife called at a Detroit photograph gallery last week to order some photographs of her, and while the operator was getting ready, the husband gave the wife a little advice as to how she must act: "Fasten your mind on something," he said, "or else you will laugh and spile the job. Think about early days, how your father got in jail, and your mother was an old scolder, and what you'd have been if I hadn't plied you! Jest fasten your mind on to that!" She didn't have any photographs taken.

DANIEL WEBSTER was a superior person, and, as a boy, smart. But he has a successor in his native New Hampshire who, if he live long enough, will, like DAN'L, find "room enough for himself on the top rung of the ladder." This youth, residing at Dover, refused to take a pill. His crafty mother thereupon secretly placed the pill in a preserved pear and gave it to him. Presently she asked, "Tom, have you eaten the pear?" THOMAS, not first-class as prevaricator, nobly replied, "Yes, mother, all but the seed."

EPITAPH.

Stranger, pause—
My tale attend,
And learn the cause
Of Hannah's end.

Across the wold
The winds did blow—
She ketched a cold
What laid her low.

We shed a quart
Of tears, it's true,
But life is short—
Aged 82.

If a young man cannot pay his board-bill, and has no reasonable prospect of being able to pay it, we are inclined to think it his Christian duty to abscond. He need not, however, add insult to injury, like the youth who lately left his bed and board in Rutland, Vt., without paying for either. This wretch had not been long gone when his defrauded landlady received the following exasperating billet: "Miss A.—Please do not worry about me. Again I enjoy the comforts of a home. My present hash-maker improves on you considerably." It is a nice, moral question whether a defaulter has a right to sneer at any hash, however miscellaneous, which he has not paid for.

THE ways in which poor, harmless wives are deceived by marble-hearted husbands are many and dreadful;—and among the most dreadful cases of deception is this, which we grieve to relate. An Indiana wife, wearing only half a dozen pounds or so of somebody else's hair upon her head, became convinced that life wouldn't be worth having without the addition of a pound or two to the mass. Acting upon this conviction, she soon, by a series of conversations, persuaded her husband that his life wouldn't be worth having unless the said addition were immediately made. Capitulating gracefully, he sent home two "switches" from which the fair lady was to make her selection. But mark the wickedness of this abandoned man! Before dispatching them he carefully changed the tags upon which the price was marked, putting the twenty-five dollar tag upon the ten dollar switch, and *vice versa*. After a strict and severe examination of the two switches by his trusting wife and all her feminine friends, the one marked \$25 was naturally enough chosen. And that wretched man, that penurious fiend, exulted over his treachery to that gentle, lovely woman.

WHEN a woman puts three mackerel to soak over night in a dish-pan whose sides are eight inches high, and leaves the pan on a stairway, she has accomplished her mission and should go hence. This was what a Division street woman did Friday night. Filled the pan at the pump and then left it standing on the steps to the stoop, while she went into the next house to see how many buttons would be required to go

down the front of a redingote. And a mighty important affair that was to be sure. And there was her husband tearing through the house in search of a handkerchief, and not finding it of course. And then he rushed out into the yard, wondering where on earth that woman could be, and started down the steps without seeing the pan, or even dreaming that any one could be so idiotic as to leave it there. Of course he stepped on it; or, at least, that is the supposition, as the neighbors, who were brought out by the crash that followed, saw a horrified man, and a high dish-pan, and three very demoralized mackerel shooting across the garden, and smashing down the shrubbery. And he was a nice sight, was that unhappy man, when they got him on his feet. There wasn't a dry thread on him, and his hair was full of bits of mackerel, and one of his shoulders was out of joint, and his coat was split the whole length of his back, and he appeared to be out of his head. He was carried in the house by some of the men and laid on a bed, while others went after a doctor, and sixteen women assembled in the front room, and talked in whispers about the inscrutable ways of Providence, and what a warning this was to people who never looked where they were going.—*Danbury News*.

OUR PUZZLER.

35. CHARADE.

In every house my first is seen
Close to the blazing fire;
My next will give a word that means
To reach or to acquire.
By these two, when they are combined,
A something will be shown,
That, strange as it may seem to be,
You cannot make alone.

36. CONUNDRUM.

If a man were to cheat at a card-party, what musician would he remind you of?

37. CHARADE.

Fair maid, I must leave thee; but ere I depart,
A question I'd ask thee, to lighten my heart—
That heart which thou hast in love's sweet
stream immersed:
Say, may I be thy—can'st thou guess what?—
my first?

Oh! give me a token to mind me of thee
When distance shall part us! Say, what shall
it be?
May I beg that small tie that thy fair throat
bedecks?
Or a part, say one third, thou wilt then have—
my next.

And gold I will give thee! Nay, doubt not my
word;
For see, pretty sceptic, my purse is my third.
Right gladly I'd hail thee the queen of my soul.
For thou art, sweet damsel, yes, thou art my
whole.

38. CONTRARY MEANINGS.

Find, without the aid of a dictionary, a word which means to separate and to unite. The English language contains many instances of words having directly contrary significations.

39. DOUBLE ACROSTIC.

For my second my first has been famed
From ages that are now long done;
And I think that I cannot be blam'd
For stating that this one's no fun.

- In common use it has always been.
And yet it means but what I have seen.
- If the day is wet, or gloomy the sky,
We take this with us, that we may be dry.
- I heard it by the river, I heard it in the
city,
It was a sad and plaintive sound, but yet to
me 'twas pretty.
- Unless you thus address a matron,
You will not get a lady patron.
- He thought that if he married
'Twould be a heavenly bliss;
He soon found out his error—
His happiness was this.
- What the wealthy man is,
What the poor man isn't;
Tho' I can't say myself
That it is always pleasant.

40. SQUARE WORDS.

- A man's name; a town in Denmark; law-
ful; six; a female name.
- A city of Hungary; an iron ore; a man's
name; a short time; a heathen deity.
- A river in England; a wanderer; a town
in Portugal; a town in France; mark out.

41. ENIGMA.

Give me a charge to hold securely,
I'm bound to keep it well;
Lend me your wealth, 'tis safe, most surely
I will no secret tell.
The crafty thief in vain shall try
To cheat my ever watchful eye.
See a dark shadow planted
Round bright intelligence;
See beauty's token granted—
Woman's inheritance.
Bright as silver, soft as down,
A midnight black, an autumn brown,
A barge, with traffic laden,
Glides leisurely along;
On the green bank lists the maiden
The gay boatman's song.
Barge nor boatman pass me by,
Till I see them drawing nigh.

Stern, and stamped with intellect,
Tutor severe am I;
Wandering thoughts and minds collect,
Shallow reasonings try.
Listen, listen unto me,
You shall listen consistently.

42. LETTER PUZZLES.

- Name two words in the English language,
eight letters in each, only one syllable, the other
five syllables.
- Name the longest word in the English lan-
guage.
- Name a word of three letters, transpose
whichever way possible will form a distinct
word.
- Name a word containing all the vowels in
rotation.

43. CHARADE.

Go to the woods, and view the ground—
My first is seen spread all around.
Go to the city, and amidst its noise,
My first is seen with its sorrows and joys.
Go to the pole, and amidst its snows,
My first is seen as it upward grows.
Upon the earth in every form,
My first is seen in calm or storm.
Go to the shore of the wide-spread ocean,
My next may be seen in quiv'ring motion.
Go to the stream where it quickly speeds,
My next is seen as it forward leads.
Go to the sea when the wind is howling,
And the clouds are darkly and gloomily scowl-
ing:
When the tempest is raging with all its might,
My whole may be seen prepared for the fight.

44. TRIPLE ACROSTIC.

- Behold one stricken with disease,
That robs the victim of all ease.
- A saying by each one revered
To whom its meaning has appeared.
- This tells of loud and bolterous sound,
With which great London doth abound.
- 'Mongst the monks a certain order,
Of which I am the recorder.
- On music's page I have a place,
Suggesting how to play with grace.
- This term implies a faith that's good,
Owning the one true brotherhood.
- A king who, quite without occasion,
Founded abbeys by persuasion.
- Sweetly scented, favorite flowers,
These should always deck our bowers.

As these words do follow on,
The initials now read down;
They reveal a name well known,
Specially to London town.
Then the finals you must take—
You will find that they all make
One who has an equal fame,
And whose calling was the same;
But he long has passed away,
Tho' the other lives to-day.
The mid letters read down, too,
Then their calling comes in view.

45. SQUARE WORDS.

- What we all do; what we all do; what we
all like; a bird.
- A water bird; an English river; a Spanish
mountain; another bird.
- A noble bird; to beckon; to declare; what
we get every day.

46. ENIGMA.

A brave steed carries me on his neck,
And tosses me to the wind;
On he presses, and out I stream
In a fluttering flag behind.
I bear on my breast a thousand ships,
White sails on my azure robe;
And carry the treasures of commerce and love
To the uttermost ends of the globe.
What am I? You may not guess me by chance,
But by brain thought, steady and true;
Yet, at least, if I be not chance itself,
I'm the chance that we all look to.

47. LOGOGRAPH.

Striped complete, in rows and rows,
An untamed steed I rown;
Out off my head, my limbs transpose,
And banish me from home,
I still am wild, though every child
That's born is just what I am;
And every man, do what he can,
Must always die *et diem*.

ANSWERS.

- DOUBLE ACROSTIC.—Cleopatra and Aristotle, thus:—Cressa, Luxor, Euclid curtailed (Euclid), Orleans, Pilot, Apollo, Target, Raphael, Aine.
- LOGOGRAPH.—Chair, hair, air, I.
- CHARADES.—1. Skylark. 2. Mansion.
- ARITHMORUM.—Herschel, thus:—Howard, Evil, Rutland, Spurious, Cantine, Hector, Eternal, Liford.
- CONUNDRUM.—1. It is a week-day (weak Day). 2. A sty (e) in the eye. 3. He is nicely dressed, and "done brown." 4. The one is a nice die; the other a dy-nasty. 5. Yes; because "Where there's a will there's a way (weigh).
- RIDDLE-MORSE.—Tobacco.
- CHARADES.—1. Agincourt. 2. Arrow-root. 3. Tooth-ache.
- ANAGRAMS ON STATESMEN.—1. The Earl of Derby, Premier. 2. Benjamin Disraeli, Chancellor of the Exchequer. 3. Lord Stanley, Foreign Secretary. 4. Spencer Horatio Walpole. 5. Sir Stafford Northcote, President of the Board of Trade. 6. Lord Stanley of Alderly. 7. Earl de Grey and Ripon. 8. The Duke of Argyll. 9. Sir Hugh Cairns, Attorney-General. 10. George Patton, the Lord-Advocate of Scotland. 11. Charles Peellam Villiers. 12. Marquis of Hartington.