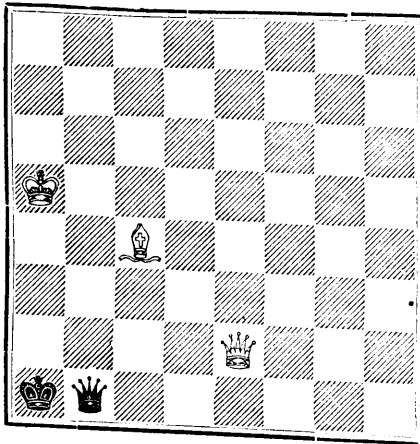


CHESS.

PROBLEM No. 45.

By "CENTURINI," ITALY.

BLACK.



WHITE.

White to play and win.

SOLUTION OF PROBLEM No. 43.

- | | |
|-------------------------|------------|
| WHITE. | BLACK. |
| 1. R to Q 6 (dble. ch.) | K to K 4. |
| 2. B takes Kt (ch.) | B takes B. |
| 3. R to K 7 Mate. | |

ENIGMA No. 19.

By "STELLA."

(From the Ill. Lon. News.)



K 2.



K sq.



K B 7



Q B 7



K 4.

White to play and mate in three moves.

SOLUTION OF ENIGMA No. 17.

- | | |
|--------------------------|------------|
| WHITE. | BLACK. |
| 1. Q to K B 8. | K to Kt 7. |
| 2. R to Q sq. dis. mate. | |

MISCELLANEA.

The estimate given by Mr. Fulton for supplying London with water from the river Wye amounts to £7,000,000.

It is computed that there now pass into the city of London daily three-quarters of a million of human beings, and that the same number pass out at night, leaving but its residential or sleeping population of 113,387, and this vast daily influx is equal to one-fourth part of the whole metropolitan population.

THE MONT CENIS TUNNEL.—The total progress at both ends of the Mont Cenis Tunnel through the Alps for connecting France and Italy, was, for the year ending May 9, 1866, about three and-a-half miles, out of about seven and-a-half miles, leaving about four miles to be pierced.

FEMALE EMIGRATION.—Miss Rye lately sent out from Liverpool by the Government emigration ship *Red Jacket*, 100 selected young women, the majority of whom are English, a considerable number Irish, and a few Scotch, to Melbourne. They are all girls qualified by physical health and moral character to take positions in domestic life as servants of various ranks, when they reach the colonies.

THE PNEUMATIC DESPATCH COMPANY.—The report of the directors of the Pneumatic Despatch Company states that a series of carefully recorded experiments as to the cost and facility of working has been made, from which it appears that 120 tons of goods can be passed through the tube per hour at a speed of eighteen miles, the cost being under one penny per ton per mile.

In a Berlin military hospital they perform some amputations with circular saws. A fine-toothed saw, running at a high velocity, is said to sever a limb instantly, without making a ragged cut.

Statistics go to prove that tea is used as a beverage by one-half of the human race.

The American Government has provided 6,075 artificial limbs for soldiers, at a cost of 357,628 dollars.

SCIENTIFIC AND USEFUL.

At a white heat all magnetism disappears; it is still sensible in iron when heated to a dark red glow.

THERE is at present on one of the lakes of the Bois de Boulogne a boat that moves about without either steam, oars, sails, or any other visible means of propulsion. The power employed is that of electricity, which, by an ingenious contrivance, communicates a rotary motion to a pair of paddle-wheels.

AN ARTISTS' NIGHT LIGHT.—An interesting conference on colour as regards artificial light has been given by M. Nichles, at Nancy. This professor spoke at great length on the power possessed by light produced by the combustion of magnesium to bring out certain natural as well as artificial colours with the identical brilliancy which they have by day. The presence of chloride of sodium in domestic lighting, he said, explains the impossibility of distinguishing certain shades of a dress, a flower, or painting, by night. A magnesium lamp, such as is used by photographers for night scenes, would permit of artists working at night with as much certainty as by daylight.

DEODORISERS.—A correspondent of the *Builder* says he has lately tried various kinds of deodorising powder, with a view to finding out the most effective and economical, and he considers the two best to be—McDougall's Disinfecting Powder, which costs 10s. 6d. per cwt., and Dr. Bishop's Sanitary Powder, which costs 5s. per cwt., and is also made up in packets of 1d. each and canisters at 6d. each. The former is a fine white powder, requires no preparation, and is free from poison. The latter is a brown powder; and on account of its cheapness, and the convenient form in which it is sold, is the one that he has adopted for use. The sixpenny canisters are perforated at the top, so that they may be used for dredging the powder. He considers that no private house should be without a supply of one of these powders; that a little of the powder should be sprinkled twice a week in the dustbin, and wherever any smell is perceived.

THE NEW FIRE ANNIHILATOR, L'EXTINCTEUR.—A series of experiments with this machine has taken place under the superintendence of Mr. Casper, the licensee, in a field attached to Wilson's yard, Highbury. The powers of the engine were first tested in extinguishing a fire which was supposed to have burst out on a staircase. After this, a shed or room, constructed entirely of wood, in which were placed several tarred barrels, a quantity of shavings, and splintered wood, was set fire to. The flames were allowed to spread over the whole of the building before any attempt was made to extinguish them. The fluid which was poured upon them from the engine, in rather less than a minute, it is reported, subdued the fire, about two quarts of the fluid only having been used in the operation. A tank filled with tar, over which several pints of naphtha had been thrown, was next set fire to. After burning furiously for some time, the engine was brought into play, and in fifteen seconds the fire was extinguished.—*Builder*.

WITTY AND WHIMSICAL.

EPITAPH ON A GAMBLER.—Cut.

THE MERCHANT'S PATRON SAINT.—St. Ledger.

A QUESTION FOR ENGINEERS.—Why is the toughest kind of iron required to make an engine tender?

PERQUISITES.—A cook's perquisites do not extend to the ownership of master, when he comes home in the wet, and is dripping.

WHY is a lady's hair like a bee-hive?—It holds the comb.

WHY are two *ts* like hops?—Because they make beer better.

WE wonder if anybody ever picked up a tear that was dropped.

THE man who carries all before him—the wheel-barrow-man.

MORE law-suits than love-suits are brought on by attachments.

SCOLDING is the pepper of matrimony; the ladies are pepper-boxes.

GETTING INTO A SCRAPE.—Cutting bread and butter for a cheap boarding-school.

CALEB WHITFORD, an American gentleman of punning notoriety, once observing a young lady earnestly at work knotting fringe for a petticoat, asked her what she was doing?—"Knotting, sir," replied she; "pray, Mr. Whitford, can you knot?"—"I can-not, madam," answered he.

SELF-ESTEEM.—A schoolmaster, who had an inveterate habit of talking to himself when alone, was asked what motive he could have in talking to himself? Jonathan replied that he had two good substantial reasons: in the first place, he liked to talk to a sensible man; and, in the next place, he liked to hear a man of sense talk.

A YANKEE MINISTER, being threatened with deprivation, said to some of his flock, that if he were "deprived" it would cost a hundred men their lives. On being asked what he meant by such a threat, he explained that if he lost his benefice he should set up as a quack doctor, and if so, he had no doubt he should be the death of at least a hundred patients.

NOTICE TO LOVERS.—In the settlements of the far West, where as yet there are but few women, lucky suitors find that they cannot be too watchful. What a picture of anxious love defending its object against a siege of importunities is brought before the mind by the following advertisement, which we take from the Western paper:—"Engaged—Miss Anna Gould to John Candal, City Marshal, both of Leavenworth, Kansas. From this time henceforth and for ever—until Miss Anna Gould becomes a widow—all young men are requested to withdraw their particular attentions."

THERE is a gentleman at present in Devonshire who is so forgetful of faces, that his wife is compelled to keep a small piece of plaster on her cheek, that he may distinguish her from other ladies; but this does not prevent him from making occasional mistakes.

COLERIDGE was descanting, in the presence of Charles Lamb, upon the repulsive appearance of the oyster. "It isn't handsome, Coleridge," said Lamb; "but it has the advantage of you in one thing."—"What is that?" queried Coleridge, who, as every one knows, was an exhaustless talker. "It knows when to shut its mouth," was the reply.

HOW to BECOME INVISIBLE.—The gift of invisibility was formerly believed to be procurable by means of fern-seed; but no peculiar power of rendering people invisible resides especially in the seed of fern. Put on any very seedy suit of clothes, and walk about in the streets. You will very soon find that your acquaintance will pass you without seeing you.

A FEW days since a gentleman called upon some lady friends, and was shown into the parlour by a servant girl. She asked him what name she should announce, and he, wishing to take them by surprise, replied "Amicus" (a friend). The girl seemed at first a little puzzled, but quickly regained her composure, and in the blandest manner possible observed, "What kind of a cuss did you say, sir?"

SLIGHT MISUNDERSTANDING.—A Quaker lady recently explained to her new domestic that washing-day came on every Second Day. The girl left in high dudgeon. She didn't go to be washing every other day! Not she.