

TO CORRESPONDENTS.

A. J. C.—Mr. Gladstone was born in Liverpool, in 1809; his father was a wealthy merchant of that city.

C. H.—Our correspondent asks "Were 1800 years completed immediately after midnight on the 31st December, 1799; or, in other words, did the 19th century commence on 1st January, 1800, or 1st January, 1801?" Divide 1799 by 100, and one year remains to complete the eighteen centuries, consequently it is clear that the 19th century did not commence until the 1st January, 1801.

PARKER.—The standard of weights was originally taken from ears of wheat, whence the lowest denomination of weights we have is still called a grain.

LILY.—The Minnie-singers were the German Lyrics, poets of the middle ages, whose name arose from love being the chief subject of their poems, the ancient German word *minne* being used to denote a pure and faithful love.

CLARA H.—The quotation is from Pope's *Epilogue to the Satires*; it is, *Do good by stealth, and blush to find it fame.*

D. C.—The engagement between the Shannon and Chesapeake occurred on 1st June 1813.

SCOTT.—Adam Smith stated that no one ought to pay more than one-eighth of his income in rent.

A SUBSCRIBER.—The idea of Friday being an unlucky day, probably originated in its being the day of the crucifixion.

ELLEN M.—Declined with thanks.

GEO. W.—The word "Solecism" is derived from the *Soli*, a people of Attica, who having colonized in Cilicia, lost in time the purity of their native tongue, and spoke a barbarous language—hence anything rude or uncivilized is termed a solecism.

A WOULD-BE MIDDY.—The full annual pay of a midshipman in the British navy is £31 5s. 8d.

A. M. O. C.—We have received the story entitled "The Struggle and the Victory."

V. G.—We will return the M. S. in a day or two.

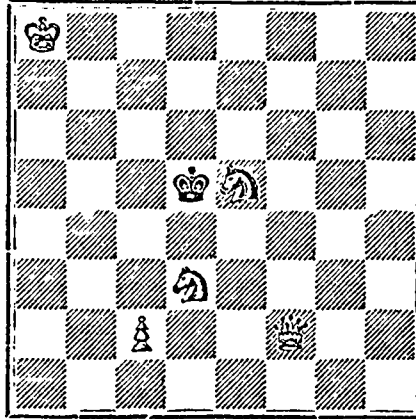
NEW PROCESS OF SUGAR MAKING.—An invention which has created some sensation amongst those interested in the manufacture of sugar was lately tried with complete success at the works of Messrs. Easton, Amos and Anderson, at Erith. The machinery has been devised and patented by Mr. Walter Knaggs, of Seven Plantations, Clarendon, Jamaica, and promises to effect a complete revolution in the process of converting cane-juice into sugar. Mr. Knaggs has succeeded in producing perfectly white sugar, in all respects equal to refined, on his estate. The chief recommendations of this peculiar system appear to be a means of clarification by which the juice is rendered so pure, both mechanically and chemically, that it will require no skimming while boiling, very rapid evaporation, attained in such a way as that the juice is not at any time in contact with surfaces heated to a higher temperature than 235 degrees and that only for five minutes, reducing it to syrup of a density of from 25 to 28 Beaumé.

TWENTY MILES AN HOUR ON THE HIGHWAY.—A large number of persons lately assembled on the grounds of Trinity College, Dublin, to witness the locomotion of a steam carriage, constructed by Mr. Daniel McDowell, late engineer of the Jamaica Railway, and adapted for travelling on ordinary highways. The carriage, which is capable of being worked to eight-horse power, and of travelling on a level road at the rate of twenty miles an hour, can be brought to a stand-still within 20 yards. Its entire weight, with all the tools and appliances, is only two tons. The boiler is vertical, four feet high, by two in diameter, containing 21 vertical tubes capable of withstanding 100 lb. pressure per inch. The cylinder is three inches in diameter by seven in height, and makes four strokes for

each revolution of the driving wheels, so that the speed on the driving wheels is reduced at the rate of one to four. The driving wheels are four feet in diameter, and the steering wheel two.

CHESS.

PROBLEM, No. 79.
By T. P. BULL, SEAFORTH, C. W. BLACK.



WHITE.

White to play and mate in three moves.

SOLUTION OF PROBLEM, No. 77.

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|-------------------------|-----------------------|
| WHITE. | BLACK. |
| 1 Q to Q R 4 | Kt moves or (a b c d) |
| 2 Q to Q R 8 Mate. | B moves, |
| (a) 1 Q to Q R sq Mate. | P to Q B 4. |
| (b) 1 Q to K 8 Mate. | P to Q K 6. |
| (c) 1 Q to Q 4 Mate. | P Queens. |
| (d) 1 K takes Q Mate. | |

MACKENZIE-REICHHHELM MATCH.
SIXTH GAME.
EVANS GAMBIT.

WHITE. (Mr. Reichhelm.) BLACK. (Mr. Mackenzie.)

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|--------------------|-----------------------|
| 1 P to K 4. | 1 P to K 4. |
| 2 K Kt to B 3. | 2 Q Kt to B 2. |
| 3 B to B 4. | 3 B to B 4. |
| 4 P to Q Kt 4. | 4 B takes Kt P. |
| 5 P to B 3. | 5 B to B 4. |
| 6 Castles. | 6 P to Q 3. |
| 7 P to Q 4. | 7 P takes P. |
| 8 P takes P. | 8 B to Kt 3. |
| 9 R to K sq. | 9 B to K Kt 5. |
| 10 B to Kt 2. | 10 Kt to R 3. |
| 11 P to Q 5. | 11 B takes Kt. |
| 12 Q takes B. | 12 Kt to K 4. |
| 13 B to Kt 5 (ch.) | 13 K to B sq. |
| 14 Q to Kt 3. | 14 K Kt to Kt 5. |
| 15 K to K 2. | 15 P to K R 4. |
| 16 P to K R 3. | 16 P to K 5. |
| 17 Q to Q B 3. | 17 P to K 3. |
| 18 B to R 4. | 18 Kt takes P. |
| 19 K to R 2. | 19 Q to B 3. |
| 20 Q to Q 2. | 20 Kt to B 6. |
| 21 P takes Kt | 21 Q takes P. |
| 22 B takes P (ch) | 22 R takes B. |
| 23 Q to B 3 (ch.) | 23 Q takes Q. |
| 24 Kt takes Q. | 24 Kt to Q 6. |
| 25 R to Kt 2 (ch.) | 25 K to B sq. |
| 26 R to K B sq. | 26 B to Q 5. |
| 27 Kt to K 2. | 27 B to h 4 (ch.) |
| 28 h to R sq. | 28 R to K Kt square. |
| 29 R to Kt 4. | 29 R takes K. |
| 30 P takes R. | 30 K to K 2. |
| 31 R to Kt 2. | 31 P to R 6. (ch.) |
| 32 K takes P. | 32 R to K R sq. (ch.) |
| 33 K to Kt 2. | 33 R to R 7. (ch.) |
| 34 K to B 3. | 34 R to R 6 (ch.) |
| 35 K to Kt 2. | 35 R to K 6. |
| 36 B to Q sq. | 36 R takes P. |
| 37 K to B 3. | 37 R to Kt 4. |
| 38 B to B 2. | 38 Kt to B 4. |
| 39 R to Q Kt sq. | 39 R takes K. |
| 40 B takes R. | 40 P to Q B 3. |
| 41 P takes P. | 41 P takes P. |
| 42 K to K 3. | 42 P to Q 4. |
| 43 h to B 2. | 43 K to Q 3. |
| 44 B to Q sq. | 44 Kt to K 3. |
| 45 B to R 3. | 45 P to Q B 4. |
| 46 B to B 2. | 46 P to B 5. |
| 47 B to Q sq. | 47 P to Q 6 (ch.) |
| 48 K to Q 2. | 48 K to Q 4. |
| 49 Kt to Kt sq. | 49 B to B 5 (ch.) |
| 50 K to B 2. | 50 Kt to K Kt 4. |
| 51 B to E 2. | 51 P to K 4. |
| 52 B to B sq. | 52 P to B 3. |
| 53 B to Kt 2 (ch.) | 53 K to B 4. |
| 54 Kt to R 3. | 54 P to Q 6 (ch.) |
| 55 R to Kt 2. | 55 B to K 4 (ch.) |

And Black wins.

WITTY AND WHIMSICAL.

STEPS TO KNOWLEDGE.—Library steps.
COMPOUND RATINGS.—Being blown up by one's wife, and her sister chiming in!

VERY APPROPRIATELY.—If Greece and Rome are represented at the French Exhibition, might not their productions be appropriately ranged in "class six?"

LITERARY ANNOUNCEMENT.—A companion volume to "A Winter with the Swallows in Algeria" will be published this season under the title of "A Summer with the Sparrows in Belgravia."

THE SCHOOLMASTER IN WALES.—The following is a copy of a notice exhibited in the Town Hall, Welsh Pool:—"Welsh Pool Fairs. These Fairs will be held annually on the second Monday in every month. By order of the Council. —, Town Clerk. 1st Jan., 1867."

WANTED.—A rafter from the roof of the mouth; a sucker from the root of the tongue; a sling from the drum of the ear; a fin from the sole of the foot; a leaf from the palm of the hand; a jewel from the crown of the head; a tassel from the cap of the knee; a rail from the bridge of the nose, some thread from a three-handed reel; and an anodyne from a window pane.

There is a lawyer so excessively honest that he puts all his flower-pots out every night, so determined is he that everything shall have its dew.

A clergyman one Sunday, at the close of his sermon, gave notice to the congregation that, in the course of the week, he expected to go on a mission to the heathen. One of his parishioners exclaimed, "Why, my dear sir, you have never told us one word of this before. What shall we do?"—"Oh, brother!" said the minister, "I don't expect to go out of town."

A worthy Dutchman lately sued his neighbour, a "gentleman from Erin," for killing a dog. In the course of his examination, the Dutchman being asked what was the value of his dog, replied, "Ash for ter dog, he vas wort shush nothing at all, but ash Pat vas so mean ash to kill him, I swear I makes him pay the full value of him."

A Scotchman went to a lawyer for advice, and detailed the circumstances of the case. "Have you told me the facts precisely as they occurred?" asked the lawyer. "Oh, ay, sir," replied he; "I tho't it best to tell ye plain truth. Ye can put the ices into it yersel'."

Artemus Ward was fond of telegraphing, and studied it for amusement. He was a very good "sender." To the telegram of a California Lecture Committee, "What will you take for one hundred nights?" Artemus promptly replied, "Brandy and water."

UTTERANCE SOFT AND LOW.—A lady was decanting on the virtue of her son, a young gentleman given to backing horses and bills, who had uttered many promissory notes, to the small benefit of creditors. "Don't you think, my dear sir," she said, addressing a friend who had suffered through this pleasing trait in his character, "that he is a very promising young man?"—"Very promising, my lady, but—he never pays."

A MODERN DICTIONARY.—Water: A clear fluid, once used as a drink. Dentist: One who finds work for his own teeth by taking out those of other people. My dear: An expression used by man and wife at the commencement of a quarrel. Policeman: A man employed to sleep in the open air. Bargain: A ludicrous transaction, in which either party thinks he has cheated the other. Wealth: The most respectable quality of men. Bonnet: The female head-dress for the front seat of the opera. Esquire: Everybody, yet nobody; equal to captain. Jury: Twelve prisoners in a box to try one more at the bar. Informer: A wretch who is pardoned for being baser than his comrades. Modesty: A beautiful flower that flourishes in secret. Lawyer: A learned gentleman, who rescues your estate from your enemy and keeps it himself. Money: The god of the nineteenth century.