

TO CORRESPONDENTS.

BRIGUS.—The motto *Dieu et mon droit* which accompanies the royal arms of Great Britain, is supposed to have been a war cry, and was used in England at least as early as the time of Henry VI. Its origin has been assigned to a saying of Richard I, "Not we but God and our right have vanquished France."

B. N. C.—We have handed your note to the Chess editor, the contributions are very acceptable.

J. B. O. CHINGACOSSY.—Respectfully declined.

A SUBSCRIBER, TORONTO—Will supply the information in our next issue. Your note reached us but a short time before going to press.

A. W. H.—The eldest son of a duke uses the second or some other title of the family by courtesy, and he is addressed as if he held the title by law, though in formal documents he is called "—Esqre commonly called the Marquis or Earl (as the case may be)."

CONORR.—Originally, a fathom was taken as the width to which the two outstretched arms extended.

MARTHA, H.—The best advice we can give you is to leave them alone.

W. Y.—The geometrical mean of two numbers is found by multiplying the two numbers together and extracting the square root of the product, thus the geometrical mean of 9 and 16 is 12, for $9 \times 16 = 144$, the square root of which is 12.

"ROTHSAT CASTLE, TORONTO."—Will reply in our next.

F. X.—The Koh-i-noor diamond was found in the mines of Golconda in 1550, and from that time till it became the trophy of English valour, passed in the train of conquest into the possession of numerous families of native rulers.

ADA Z.—The M.S. was certainly mailed as requested. Will report in our next.

W. W.—There is no such journal published in Montreal.

Geo. B.—Received—thanks!

SCIENTIFIC AND USEFUL.

Sir Charles Lyell, in the new edition of his *Principles of Geology*, notices the discovery of live fish in some artesian wells sunk in the Desert of Sahara. They were brought up from a depth of 175 feet, and were not, like those of Adelsbrug, blind, but had perfect eyes.

Wine and other liquids are subject to considerable loss and even to changes which deteriorate them in consequence of the porosity of the wooden casks in which they are kept. These evils are prevented by drying and warming the casks, and then causing their interiors to imbibe pure fused paraffin.

A specification has been filed by J. S. Nibbs, of Warwick, numbered 2147, relating to improvements in lamps. The invention consists in forming a chamber for receiving the spirit, the volatile nature of which is controlled by elevating the top of the wick, which is brought up through a tube made to represent in appearance a candle.

The last scientific toy is in the shape of some cigar-holders made of paper and quile, each showing a blank medallion, on which, however, a photograph is developed in a few moments when the holder is used for its intended purpose. It appears from experiment that the ammonia of the smoke is the developing agent, but the exact nature of the action has not yet been explained.

THE NEEDLE LATCH AND THE NEEDLE LOCK.—We have heard of the needle gun, but the needle lock rather took us by surprise. It is simple in its construction, as it is composed of neither more nor less than steel wires—call them needle if you like—strung together on two stumps attached to the running upon which they revolve, and they require to be lifted by the key to a position to admit of their being

passed through certain holes in a plate of brass and thus passing, carry the running bolt with them, which carries the real bolt. The needles move obliquely, perpendicularly, laterally, and in any direction, hence the difficulty in raising all the needles with an instrument simultaneously to their required positions to run through their own apertures, and escape the many traps set for them in the shape of a number of holes pierced nearly half-way through the fence-plate of the exact size to fit the needles. In the more expensive latches, as we have only been describing the cheapest one, there are protectors and detectors.

CHESS.

TO CORRESPONDENTS.

ERRATUM.—In Problem No. 70, a Black Pawn should stand on Q R 2.

B. N. C.—We must apologise for not having corrected the error in Problem No. 70 earlier. We take every care in correcting the proof, but mistakes or omissions will sometimes occur, thus being a case in point. Your solution was correct.

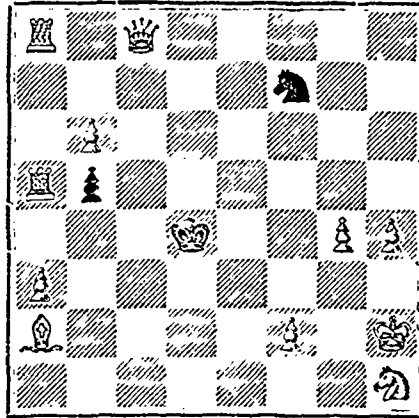
G. G. ST. CATHARINES.—No. 51 is still faulty, it can be solved by Kt to K B sq, followed by B to K B 3, &c. Have written.

T. P. BULL, SEAPORTH.—The publication has been mailed to your address.

MEDICO, WATERVILLE, C. E.—Excuse us for once, Solution of Problem 68 was correct. Thanks for the enclosures. Your previous Problem having as its key move Q to Q B 5, admits of a solution in *tro* as follows, 1 Kt to K B 5 (ch.), 2 R to K 5 Mate. Problem No. 71 is faulty, your solution, however, works equally as well as the author's.

PROBLEM, No. 73.

By GEO. E. CARPENTER, TARRYTOWN, N. Y. BLACK.



WHITE.

White to play and Mate in three moves.

SOLUTION OF PROBLEM, No. 71.

BLACK. WHITE. 1 Kt to Q B 5. P takes Kt (best.) 2 R to Q B 2. P takes Kt. 3 R Mate.

(The author has overlooked a second solution commencing with K B to Kt 2.)

Game played between Leow and Hirschfeld, in the Berlin Club.

EVANS' GAMBIT

WHITE (Leow) BLACK (Hirschfeld) 1 P to K 4. 1 P to K 4. 2 K Kt to B 3. 2 Q Kt to B 3. 3 B to Q B 4. 3 B to Q B 4. 4 P to Q Kt 4. 4 B takes Kt P. 5 P to Q B 3. 5 B to Kt 4. 6 Q B to R 3. 6 P to Q 3. 7 P to Q 4. 7 K Kt to B 3. 8 P takes P. 8 K Kt takes P. 9 Q to Q 5. 9 Q B to K 7. 10 Q takes Kt. 10 P to Q 4. 11 B takes P. 11 Q takes B. 12 Q to K 2. 12 Castles Q R. 13 Castles. 13 Q B to Kt 5. 14 B to Q Kt 2. 14 B takes Kt. 15 Q takes B. 15 Q takes Q. 16 P takes Q. 16 Kt takes P. 17 Kt to R 3. 17 R to Q 3. 18 Q R to Q sq. 18 K R to Q sq. 19 K takes R. 19 R takes R. 20 P to Q B 3. 20 R to Kt 3 (ch.). 21 K to Q R sq. 21 Kt takes B R P. 22 B to Q B sq. 22 R to Kt 5. 23 B to K 2. 23 P to Q B 4. 24 R to Q Kt sq. 24 B to R 5.

And must win, his last move is very neat.

WITTY AND WHIMSICAL.

What roof covers the most noisy tenant? The roof of the mouth.

When is a sermon like a round shot? When it comes from a canon's mouth.

An American aptly described a gentleman's park as "Nature without her hair combed."

Never set yourself up for a musician just because you have got a drum in your ear; nor believe you are cut out a school teacher merely because you have a pupil in your eye.

THE LOUDEST THING GOING.—Bugle Trimming. —Punch.

CON. BY MR. CADDLE.—Why is my wife likely to become a good equestrian?—Because she's always on the nag.

If you are truly benevolent and charitable, perhaps you will, when you see a neighbour in distress, ask some other neighbour to help him.

"AN India-rubber ship!" exclaimed an old sailor, who had been listening to a description of such a proposed invention. "That would never do, because it would rub out all the lines of latitude and longitude, to say nothing of the equator!"

A HINT.—If your sister, while tenderly engaged in a tender conversation with her tender sweetheart, asks you to bring a glass of water from an adjoining room, you can start on the errand, but you need not return. You will not be missed, that's certain—we've seen it tried. Don't forget this, little boy.

TABLE OF INTEREST.—The dinner table.

"POOR Dick! how sadly he is altered since his marriage!" remarked one friend to another. "Why, yes, of course," replied the other; "directly a man's neck is in the nuptial noose, every one must see that he's a haltered person."

A "PAWKEY" SCOT.—A shrewd old Scotch M.P. used to say the proper time for asking for an appointment from a minister was just before a critical division. On one occasion he caught Canning in the lobby, and mumbled out his queries whether the matter of the tide-waitership at Dumdorum had been settled yet. The Minister cannot attend to such business until the great question is decided, and ends the colloquy, as he supposes, with, "and of course, Mr. —, we count upon your vote." Mr. — cannot honestly leave such an impression. "The faunt is, Mr. Canning, I am so concerned for the fate of that pair fatherless laddie, that really, unless I feel some assurance, I cannot get my mind into a proper train for considering so large a question."

"NO ANOTHER DRAP."—In former days, when roads were bad, and vehicles were almost unknown, an old laird was returning from a supper party, with his lady mounted behind him on horseback. On crossing the River Urr, at a ford at a point where it joins the sea, the old lady dropped off, but was not missed until her husband reached his door, when of course there was an immediate search made. The party who were despatched in quest of her, arrived just in time to find her remonstrating with the advancing tide, which trickled into her mouth, in these words, "No another drap, neither het nor cauld."

NEWS FOR THE NURSERY.—We are informed that an enterprising American publisher is about to bring out a volume of nursery literature, in which the stories and rhymes of the "exploded old country" will be adapted to the tastes and understandings of young America. To illustrate this we shall venture on a version in prose of Humpty Dumpty. "Humpty Dumpty sot hisself on a tall rail. Humpty Dumpty dropt of his pearb—ker-squash. And all the equipages, and all the liveried menials of an estete monarchial system was just a one-hoss affair as regarded the sottin' of that unfort'net cuss on that everlastin' rail again! Moral.—The skreekin' bird of Freedom what roosts on the zenith, with his head tied up in the star-spangled banner, rather kalktates that monarchy is played out—some!"—Fun.