

which gives the amount of what Mr. Williams calls up-and-down movement, when the fault plane is nearly vertical. But this does not show the total movement, for there may also have been a lateral displacement, for whose movement we have no datum points like the bedding planes. That a certain amount of lateral movement is generally associated with the vertical movement is attested by the oblique direction of the striations or slickensided surfaces, and it was upon this lateral movement that those who conceived large open spaces along a vein a necessary condition of ore deposition largely depended.

(To be continued)

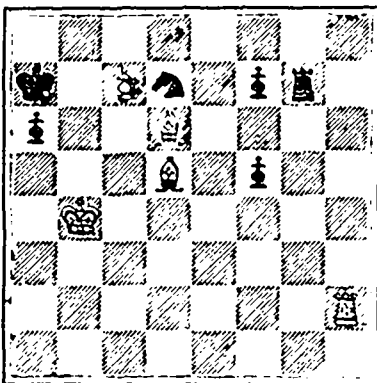
We'll write it down till everybody sees it
Till everybody is sick of seeing it
Till everybody knows it without seeing it—
that Dr. Sage's Catarrh Remedy cures the worst cases of chronic catarrh in the head, catarrhal headache, and "cold in the head," in perfect faith, its makers, the World's Dispensary Medical Association of Buffalo, N. Y., offers to pay \$500 to any one suffering from chronic catarrh in the head whom they cannot cure.
Now if the conditions were reversed—if they asked you to pay \$500 for a positive cure you might hesitate. Here are reputable men, with years of honorable dealing; thousands of dollars and a great name back of them and they say—"We can cure you because we've cured thousands of others like you—if we can't we will pay you \$500 for the knowledge that there's one whom we can't cure."
They believe in themselves. Isn't it worth a trial. Isn't any trial preferable to catarrh?

CHIESS.

SOLUTION.

Problem No. 117: No. 1, Q to R2.

PROBLEM No. 119.
Black 6 pieces.



White 5 pieces.

White to play and mate in one move.

GAME No. 120.

A brief and brilliant *partie* played July 15, 1878, in which the Captain evolves a beautiful Queen-sacrifice against such an opponent as Mason.

FRENCH DEFENCE.

- | White. | Black. |
|---------------------|----------------|
| Capt. Mackenzie. | Mr. Mason. |
| 1 P to K4 | P to K3 |
| 2 P to Q4 | P to Q4 |
| 3 QKt to B3 | KKt to B3 |
| 4 P takes P | P takes P |
| 5 Kt to B3 | B to Q3 |
| 6 B to Q3 | Cas'les |
| 7 Castles | Kt to B3 |
| 8 B to K Kt5 | Kt to K2 a |
| 9 B takes Kt | P takes B |
| 10 Kt to KR4 | K to Kt2 b |
| 11 Q to R6 | R to R sq |
| 12 P to KB4 c | P to QB3 |
| 13 R to KB3 | Kt to Kt3 |
| 14 QR to KB sq | Q to B2 |
| 15 Kt to K2 | B to Q2 |
| 16 Kt to Kt3 d | QR to KKt sq e |
| 17 Q to R6 ch! | K takes Q |
| 18 Kt (R4) to B5 ch | B takes Kt |
| 19 Kt takes B ch | K to R4 |
| 20 P to KKt4 ch! | K takes P |
| 21 R to K3 ch | K to R4 |
| 22 B to K3 mate! | g |

NOTES.

• A favorite continuation in certain phases of the French game with Mr. Mason, in those days at least. 8 * * B to K3 is nowadays held the proper move.

• A hazardous attempt to save a P., which, in order to avert the attack, he must otherwise sacrifice by 10 * * Kt to Kt3, 11—Q to R5, P to KB4, etc.

• Naturally not 12—Kt takes QP,

for then 12 * * Rt takes Kt, when if 12—Q takes Kt, B takes RP ch!

d White prepares for the grand coup, evidently some time back in his mind's eye, with elegant deliberation. Every piece is gathered to the decisive point of the struggle.

e Better seems 16 * * QR to K sq, for if then White tenders his Q by 17—Q to R6 ch, K to Kt sq, followed by 18 * * B to KB, yields temporary defence. But Mr. Mason may well be pardoned for overlooking the dazzling stroke that follows.

f "More elegant than 20—R to R3 ch," justly comments Schallopp, "as White would then have to capture the interposing Kt."

g "A termination so brilliant," remarks Saimi's in the *Field* of July 20, 1878, "that it marks the game as one of the finest that ever occurred in any great contest."—*New Orleans Times-Democrat*.

DRAUGHTS-CHECKERS

All communications to this department must be addressed directly to the Checker Editor, Mr W. Forsyth, 36 Grafton St.

Preparations for the "big checker tournament" at the World's Fair in Chicago next summer are progressing in a satisfactory way, and the present indications are that it will prove a brilliant success, as indications are coming in from all parts of the world that some of the best players intend to enter and compete for the prizes. Three thousand dollars in prizes are to be paid to the winners at the close of the tournament as follows:—Professional class \$1,500 in six prizes; semi-professional class, \$1,000 in ten prizes, and amateur class \$500 in thirteen prizes. In addition the first prize winners in each class will be given an appropriate medal. Entrance fees will be \$20 to the professional class and \$10 to each of the two other classes. The requirements of entries are that the secretary of the committee, Mr. T. A. Peters, shall receive by mail at his address, suite 9, 150 Washington St. Chicago, Ill., U. S. A., the names and post office addresses of all applicants, together with the entrance fees, on or before the 1st of May, 1893. Playing to commence August 15th, 1893.

SOLUTION.

PROBLEM 279.—The position was: Black men 1, 14, king 32; white men 22, 28, king 23; white to play and win. It will be remembered that this was an end game between Messrs.

Granville, black, and Hamilton, white, in which the former won as follows:—
28 24 10 6 22 18 9 5
1—5 28—24 13—17 25—29
24 19 6 1 18 14 10 6
5—9 17—21 10—7 2—9
19 15 26 30 1 6 5 14
9—13 24—19 7—2 29—25
15 10 1 6 6 9 14 18
14—17 19—15 17—22 white
23 26 6 1 14 10 wins.
32—28 1—15—10 22—25

VAR. I.

Might not black have drawn as follows:—
15—19 6 10 21—25 10 14
1 6 23—19 26 30 19—23
19—23 30 26 25—29 drawn.

GAME 172—"Cross."

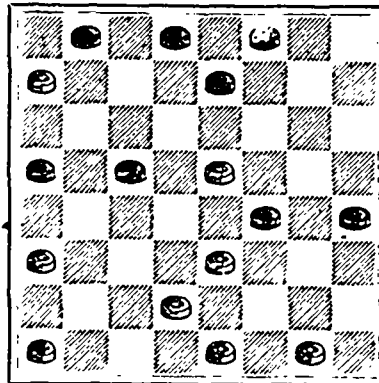
An original game recently played between Messrs. Granville (black) and O'Hearn (white).

1—15 4—8 9—13 12—19
23 18 22 17 19 15 9 5
8—11 8—11 11—16 6—9
24 19 17 14 14 9 30 26
15—24 10—17 5—14 9—14
28 19 21 14 18 9 *29 23
11—16 16—20 16—19
26 23 25 21 23 16

*This brings us to the position below which we designate

PROBLEM No. 283.

Black men 1, 2, 3, 7, 13, 14, 19, 20.



White men 5, 15, 21, 23, 26, 29, 31, 32.
Black to play and win.

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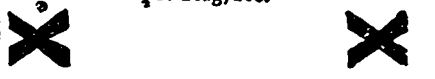
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