

endurance? How did these special paces first characterize them, and how is it that so many of the superstitions connected with them are also to be found amongst the Arabs? My answer is, unhesitatingly, from the Arabs. All the characteristics of the Arabs are to be observed in the Argentine horses; the bit used is that of Turkey and Morocco, the saddle is a modification of the Oriental one, and the horses, I think, are in like manner descended from those in Barbary. It is pretty generally known that the conquest of America was rendered much easier to the Spaniards by the fact that they possessed horses and the natives had never seen them. Great well-watered, grassy plains, a fine climate and an almost entire absence of wild beasts—what wonder, therefore, that the progeny of the Spanish cavalry horses has extended itself (in the same way as did the horses turned loose at the siege of Azov in the sixteenth century on the steppes of Russia) all over the Pampas, from the semi-tropical plains of Tucuman and Rioja right down to the Straits of Magellan? Spanish writers tell us that Cordoba was the place from which the conquerors of America took most of their horses. To ride like a Cordobese was in the Middle Ages a saying in Spain (and such it has remained to this day). Cervantes makes one of his characters say "he could ride as well as the best Cordobese or Mexican," proving the enormous increase of horses in the New World even in his time, not much more than a hundred years after the conquest. In the plains of Cordoba, to this day, large quantities of horses are bred, but of a very different stamp from their descendants of the Pampas. Where then did the original stock come from? Cordoba was the richest of the Moorish kingdoms of Spain in the thirteenth century. It was directly in communication with Damascus. Thus there is little doubt that the Cordobese horses were greatly improved by the introduction of Arab blood. However, Damascus was a long way off, and the journey a difficult and a dangerous one. It therefore seems more probable to me that most part of the Cordobese came over from Barbary. A remarkable physical fact would seem to bear out my belief. Most horses, in fact almost all breeds of horses, have six lumbar vertebrae. A most careful observer, the late Edward Louson, a professor in the Agricultural college of Santa Catalina, near Buenos Ayres, has noted the remarkable fact that the horses of the Pampas have only five. Following up his researches, he has found that the only other breed of horses in which a similar peculiarity is to be found is that of Barbary. Taking into consideration the extreme nearness of the territories of Andalusia and Barbary, and the constant communication that in Mahomedan times must have existed between them, I am of opinion that the horses of the Pampas are evidently descended from those of Barbary.—R. B. Cunningham-Graham, in *Time*.

INDUSTRIAL NOTES.

The output of the Steel Harrow Company of New Glasgow since the first of the present year amounts, we are informed, well up to 1,000 harrows. Their business extends into Quebec and Ontario, and as far west as Port Arthur. They manufacture the teeth of their harrows themselves, and these are of course the most important part of the implement. This Company reports an increasing trade which obliges them to make considerable additions to their plant. They make in all four different kinds of harrows, but there are two which are in especial demand, the "Bluenose" and the "Eclipse," the former for two horses and the latter for one. Of the others one is a more expensive implement, and is chiefly sold in some parts of Quebec and in Ontario, while the other is a cheaper implement which has as good teeth as the others but a lighter frame. This one is usually sold to farmers who cannot easily pay the difference in price for the others. Outside of their own county they sell to the wholesale trade only. They use altogether the best of Nova Scotia steel for the purpose.

We are in receipt of a well got up Catalogue and Price List of General Electric Apparatus and Supplies manufactured and furnished by Mr. John Starr, 15 Duke Street, Halifax, to which we direct the attention of all requiring such supplies.

Mr. M. McDonald, carriage trimmer, of this town, is about starting a new enterprise that gives promise of good returns. He purchased in the United States a machine for the manufacture of carriage dashers, wings and fenders. This is the second of these machines in the Dominion of Canada, the other being in use at St. Catharines, Ont. There will be a large market in these provinces, as all work of this kind was formerly done by hand. The machine made dashers are much cheaper and neater.

Mr. McDonald has secured for his use a portion of Mr. Holmes' carriage factory and will run his machine by an electric motor. He is one of the pushing, enterprising class of young men who have faith in the future of the manufacturing industries of our country and we look for his complete success.—*Amherst Weekly Press*.

Palmer Crossman & Laws, a new firm of machinists, have purchased of Mr. Harper the old meeting house on the corner of Church and Albion Streets, and will remove it to the vicinity of Mr. Main's workshop across the railroad where it will be fitted up for a machine shop.—*Amherst Weekly Press*.

It is claimed that wall paper can be made in such a way that the passage of a low-tension electric current will heat it moderately warm to the touch, and diffuse throughout the room a moderate temperature.

The announcement of a decline in the price of Canadian deals will be unwelcome news for the Maritime Provinces, particularly New Brunswick, where lumber is a leading industry.

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DRAUGHTS-CHECKERS-

"Joe," Montreal.—We are much pleased with your letter. Are glad to hear that you have determined to work up solutions to our problems regularly. At the 10th move of your solution to Problem 161, 27—32, black wins. At 11th move 7 10 draws. At the 12th move 27—32 would make a win for black.

ALPHA, Ottawa.—Your draw, we believe, is quite sound, and shows that Barker had two different lines to draw and yet lost the game.

SOLUTIONS.

PROBLEM 163.—The position was: Black men 3, 6, 12, king 28; white men 1, 18, king 19; white to play. What result?

We offer a copy of the *American Checker Review* for the best solution of this problem, but, to date, have received only two correct solutions—one from W. Forsyth, Dartmouth, and the other from "Cordwainer," Halifax. The only possible draw is very neat, and each of the above players will receive a copy of the *Review* on calling upon us. The play is as follows:—

18 14 24 20 2-16 11 14 9
28—32 16—19 32—27 5—14
1-19 24 20 16 11 15 15 18
12—16 19—24 27—23 drawn

VAR. I.

19 15 14 10 10 1 15 24
12—16 16—19 32—28 28—19
black wins.

VAR. II.

16 19 32—27 19 28 27—23
black wins.

GAME LIII.

Played between Mr. C. T. Burns, of St. John, N. B., and our Checker Editor:—

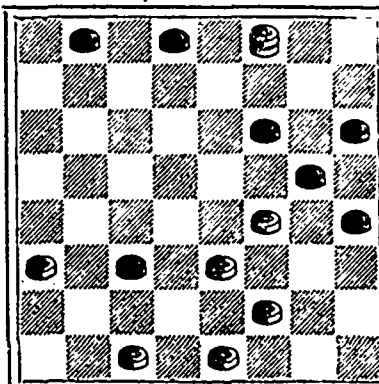
11—15 10—15 8—12 13—22
24 19 19 10 17 14 26 17
15—24 6—15 16—20 15—22
28 19 21 17 32 28 14 9
8—11 9—13 12—16 5—14
22 18 29 25 28 24 17 3
4—8 12—16 3—8 8—12
25 22 25 21 22 17 24 19

Mr. Burns gives us something new here. At least we have never seen it before.

This brings us to the position as below:—

PROBLEM No. 165.

Resulting from game 53, above.
Black men 1, 2, 11, 12 16, 20 22



White men 19, 21, 23, 27, 30, 31,
king 3.

Black to play and draw.

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