

tail-water to the full depth of the shrouding. Much power is accordingly wasted, the amount of water consumed in driving one of those mills being from 80 to 100 cu. ft. per minute. The average number of drops of each head varies between 28 and 32 per minute; the length of the drop is about 2 ft., and the effective falling weight of the head is about 70 lbs. Thus only about one-third of the theoretical power of the machine is utilized, but of course much of this loss of energy is due to the friction of the whole machine, notably between the straight cam and the tail-piece of the hammer. There are usually three men per shift working one of these mills, two being engaged in looking after and feeding the machine, while the third sifts the pounded stone as already described, throwing back under one of the hammer heads whatever will not pass the sieve.

(To be continued.)

The word "DYSPEPTICURE" is a Registered Trade Mark in Canada and the United States.

Dyspepticure

Prepared by

Charles K. Short,
Pharmacist,
St. John, N.B.

Two Years Ago

"DYSPEPTICURE" was known to some hundreds of People scattered here and there throughout the Maritime Provinces and New England States.

To-Day

Thousands upon thousands of CURED CHRONIC DYSPEPTICS are sounding its PRAISES all over America.

"Dyspepticure" differs wholly from all other remedies and is a discovery in the treatment of all Stomach troubles, by its soothing and healing action on the irritated coatings of that Great Nerve Centre—the Stomach; it positively cures not only Indigestion but the severest forms of Chronic Dyspepsia.

"DYSPEPTICURE" ASTONISHES CHRONIC DYSPEPTICS.

Sample Size, 35c. Large Bottles (much cheaper), \$1.00.

SOLD BY ALL DRUGGISTS. Prepared by CHARLES K. SHORT, Pharmacist, St. John, N. B.

The **Confederation Life**,
Toronto.

Policies issued upon approved lives on all legitimate plans.
Represented everywhere.

F. W. GREEN, HALIFAX, MANAGER MARITIME PROVINCES.

LLOYD MANUFACTURING AND FOUNDRY CO. (LIMITED)

KENTVILLE, NOVA SCOTIA.

MANUFACTURERS OF

Lane's Improved Rotary Saw Mills,
Lloyd's Shingle Machines,
Cylinder Stave Mills,
Heading Rounders,
Buzz and Surface Planers,
AND ALL KINDS OF SAW MILL AND MINING MACHINERY.

DRAUGHTS-CHECKERS

All communications to this department should be addressed *directly* to the Checker Editor, W. Forsyth 36 Grafton Street.

TO CORRESPONDENTS.

T. J. B., Lorway Mines, C.B.—Your letter and solution are received, and we are glad to welcome you to the ranks of our problem-solvers. If you persevere in the study of this fine amusement we trust, in time, to have from you original games, problems, analyses, etc., which will be both interesting and instructive.

W. MUIR, Preston, Eug.—Many thanks for *Tit-Bits*. The marked item has been perused with pleasure. From this time "*Nil Desperandum*" shall be our motto.

SOLUTION.

PROBLEM 252.—The position was: black man 2, kings 20, 31; white men 17, 23, king 4; black to play and win. This neat problem by Mr. James Ferrie, champion of Scotland, has been correctly solved by Thomas J. Boutillier, of Lorway Mines, C. B., Oliver McGill, of Yarmouth, and S. Granville and Mr. Griffin, of Halifax. 31—27 23—18 18—14 16—12 23—19 15 11 17 10 black 27—23 20—16 2—7 wins. 19 15 11 8 10 3

GAME 130—"Single Corner."

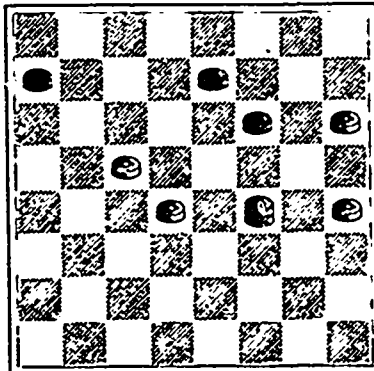
From the *Scottish Canadian*, corrected by Mr. Frank Hamilton, of Halifax, N. S.

11—15	8—11	8—11	11—18
22 18	19 16	31 26	26 22
15—22	4—8	10—14	a-16—19
25 18	16 12	18 9	24 15
12—16	9—13	5—14	13—17
24 19	26 22	22 18	22 6
16—20	11—16	6—9	1—26
29 25	28 24	18 15	b 30—23

Drawn.
a In the *Scottish Canadian* 1—5 was played and black lost.
b We leave the position here, thus giving the opportunity to our readers to find the draw for themselves.

PROBLEM 254.

By J. A. Larsen.
Black men 5, 7, 11, king 19.



White men 12, 14, 18, 20.

White to play and draw.

The above is a very neat end game. Those to whom the idea is now will find the draw difficult.

JOHN PATTERSON,

Manufacturer of Steam Boilers,
For Marine and Land Purposes
Iron Ships Repaired.

SHIP TANKS GIRDERS, SMOKE PIPES and all kinds SHEET IRON WORK.

ESTIMATES given on application.

498 UPPER WATER STREET, Halifax, N. S.

PARSONS



PILLS

Make New Rich Blood

"Best Liver Pill Made."

They positively cure SICK HEADACHE and BILIOUSNESS, all Liver and Bowel Complaints. In Glass Vials. Thirty in a bottle, one a dose. They expel all Impurities from the blood. Delicate women find great benefit from using them. Sold everywhere, or sent by mail for 25c. In stamps five bottles \$1.00. Full particulars from L. S. JOHNSON & CO., 22 South House St., Boston, Mass.

HARDWARES

Please Take Notice.

SPOONER'S

COPPERINE

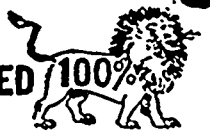
is the best selling metal in this country. It is cheaper and there is no metal made or imported that can equal it for wearing qualities. It has no competitor. Does any and all kinds of work and prevents Hot Boxes in machinery. Use it in refitting old work and specify it for all new machinery.

Hardwares all Sell It.

GILLETT'S

PURE

POWDERED 100%



LYE

PUREST, STRONGEST, BEST.

Ready for use in any quantity. For making Soap Softening Water, Distilling and a hundred other uses. A can equals 20 pounds Sal Soda.

Sold by All Grocers and Druggists.
E. W. GILLETT, Toronto.

PICTURES FOR YOUR HOME.—Who does not love pictures? We have two beautiful ones to offer you FREE. "Christ and the Fishermen," and "The Love Story." Size of sheet, 24 by 28. One of these magnificent works of art FREE to every subscriber to CANADA, the new Canadian Magazine. \$1.00 a year. State which you prefer; or both will be sent for 25 cts. additional. Money Order Office, Woodstock. Registered Letter perfectly safe.
MATTHEW R. KNIGHT,
Benton, New Brunswick.

1891—CHRISTMAS—1891

FREEMAN ELLIOT,

OPPOSITE HALIFAX CLUB.

Gentlemen's Dressing Gowns and Jackets,
Gardigan Jackets and Vests.

GLOVES, in All Kinds,

For Winter Wear.

SILK AND CASHMERE MUFFLERS,
SILK POCKET HANDKERCHIEFS.

LARGE STOCK AT

163 HOLLIS STREET.