Scientific and Aseful.

. . . . WATER PAILS.

The New England Farmer says:
Wooden water pails, whether to be used in the kitchen or at the stable, should receive two or three good coats of of gum ceive two or three good coats of of gurn shellae varnish, dissolved in alcohol, well bid on both inside and outside. This will lest a year or more before the wood will begin to soak water. It is much better than lead paint for the inside of pails. Lead is poison, and con peels off in freezing weather, and then the pails soak water and get very heavy to lift; besides which they ret fast and leak through the pores of the wood. Shellae can be precured of any painter ready mixed, and, if coaked tightly, will keep any length of time."

HOW TO USE A SPADE.

The man who can handle a spade properly does not find it very hard or laborious work. He first lets the spade fall of its work. He first lets the spade fall of its own weight down to the spot where the spadeful is to be taken up, taking care that the breadth on the surface of the ground is not more than four inches; then he draws back the spade a little, which takes off much of the friction of the descending plade. One good thrust of the spade with the foot then sends the blade down its full depth. A backward pressure makes a lover of the handle and heel of the spade, and a dexterous turn of the wrist sends the and a dexterous turn of the wrist sends the and a dext-ous turn of the write sends the spadeful upside down just where it is want-ed. There is no raking or "sputtering" needed to make the ground level. A slight tap with the corner of the spade makes the work as regular and plane as if laid off with an instrument.—Forncy's Press.

MUSTY WHEAT.

What can I feed musty wheat to so as to get something for it? Would you adviso reaking and feeding to young pigs next summor? I suppose it is out of the question to do anything toward making it fit for market, though there is no grown grain among it. I can sell it for sixty cents per bushel. Will that pay as well as to feed it to some stock? Musty wheat is worth more than corn to feed to stock or poultry. It should be scalded before feeding in order It should be scalded before feeding in order to destroy the bad qualities of the fungus which is present in such grain. Working-horses thrive on wheat. Nothing is better for pigs or poultry.—Country Gentleman.

TO CLEAN LAST YEAR'S SILKS.

For the remaking of last year's black silks, may be recommended an excellent mode of cleaning. Rub each broadth carefully with a weelen cloth to get the dust from the surface, then sponge it fall off in from the surface, then sponge it fall off in water in wich one or two black kid gloves have been boiled, a quart of water for a pair of gloves; iron while wet, with extremely hot irons, on the wrong side. For coloured silks the same colored gloves to be hoiled. For this purpose it is well to save old kid gloves of all colors. Another mode tried with great success is the same process of rubbing off the dirt with a wooller rag, then mix an equal quantity of strong rag, then mix an equal quantity of strong tea and vinegar with which the silk is washed by rubbing it with a piece of flannel. It must be made very wet. Smooth the silk carefully, folding it, and in about fifteen minutes iron it on the wrong side with very hot irons. This applies only to black silk, black ribbons, cravats, etc., but might be injurious to colors. injurious to colors.

USE OF TOBBACCO.

Tabacco belongs to the class of narcotic and exciting substances, and has no food value. Stimulation means abstracted, not added, force. It involves the narcotic paralysis of a portion of the functions, the activity of which is essential to healthy life. It will be said that tobacco soothes and cheers the weary toiler, and solaces the overworked brain. Such may be its momentary effects, but the sequel cannot be ignored. All such expedients are fallacious. When a certain amount of brain-work or hand-work has been performed, nature must have space to recuperate, and all de-vices for escaping from this necessity will fail. It is a bad policy to set the house on fire to warm our hands by the blaze. Let it, then, the clearly understood that the temporary excitement produced by tobactemporary excitement produced by tobac-co is gained by the destruction of vital force and that it contains absolutely nothing which can be of use to the tissues of the body. Tobacco adds no potential strength to the human frame. It may spur a weary brain or feeble arm to undue exertion for a short time, but its work is destructive, not constructive. It cannot add one molecule to the plasm out of which our bodies are daily built up. On the contrary, it exerts upon it a most deleterious influence. It does not supply, but dumnishes, vital force. It has been denied that tobacco leads to organic disease, but the evidence is very strong the other way and it would be very remarkable if centimued functional derangement. ment did not ultimately lead to chronic derangement of the organs; that it causes functional disturbance, no one droams of denying; indeed, it has been remarked that no habitual smoker can be said to have a day's perfect heal.h.—Popular Science Monthly.

It is the peculiar work of the Spirit to open the eyes and enlighten the soul by an effective illumination, and discover to us the evidence of Divine truths; nor can the pro-posal of the object with the greatest cer-tainty evidence, or by mortal reason cause men to discern spiritual things spiritually; since there must be a supernatuaral light, and suiting of the visive faculty to the object.—Fleming.

Paper made from the papyrus plant last-ed from 1822 years before the Christian Era to the Eighth Century. Egypt was in-vaded by the Arabians and her trade de-stroyed. It was then, for the first time, that cotton paper was imported from China by the Arabians, who, two or three centu-ries afterward, supplied as threugh Turkey. The manufacture of their flax paper was so saccessful that cotton paper was complete-ly laid saids until file commencement of the present century, when once mote it ex-patical from the manufacture in the paper.

yetled-kom the market the linen paper-

Groceries.

JAMES SHIELDS & CO.,

IMPORTERS OF

GROCERIES.

And Manufacturers of

BISCUITS AND CONFECTIONERY

Corner of Yenge and Temperance Sto.,

TOPONTO.

Miscellancous.

ESTABLISHED 1854.

A. MACDONALD, Renovator and Dyer, Of Gentleman's Wearing Apparel, No. 24 Albert Street, Cor. of James,

TORONTO.

R. A. REEVE, B.A., M.D., OCULIST & AURIST,

22 Shuter Street, corner of Victoria, TORONTO.

CANADA STAINED GLASS WORKS, ESTABLISHED 1856

FIRST PRIZE AT PROVINCIAL EXHIBITION, 1871-72. Ecciesiastical and Domestic Stained Glass Win dows execut A in the bost style.

BANNERS AND FLAGS PAINTED TO ORDER JOSEPH McCAUSLAND, PROPRIETOR,

D. S. KEITH & CO.,

PLUMBERS, GAS & STEAM FITTERS BRASS FOUNDERS AND FINISHERS,

Manufacturors of

PETROLEUM GAS WORKS,

Engineers and Plumbers' Brass Work, &c., Conservatory and Green House Heating.

Importers and Wholesale Dealers in Iron and Lead Pipes and Plumbers Materials.

109 KING STREET WEST, TORONTO

GRAND DESIDERATUM.



A NEW, LIGHT, DURABLE, AND DESIRABLE

SPECTACLES

Long practice in the sale of Speet has convinced me that the want of a line article, viz: A and durable frame, especially for Ladies' wear, long been felt. The undersigned has the pleasur to offer at a reasonable price this combination in a Spectacle sate with Leness, manufactured from Minnto Crystal Poblica meltod togother, producing a clear and distinct vision.

The extensive assortment enables no to suit all sights and rea fitted on the most scientific principle: A call is most respectfully solicited and satisfaction guaranteed by

W. WHARIN,

W. WHARIN, Joweller and Optician King Street West Toronto.

SPRING FASHIONS, 1874.

NEW YORK PATTERN HOUSES, 110 and 284 Youge Street, Toronto.

MILLINERY, DRESS MAKING,

And Ladies' Outfitting Establishment.

Mantles, Staple and Fancy Dry Goods, Berlin Wool, &c UNDER-CLOTHING MADE TO ORDER.

J. SUTHERLAND, Agent for Mme. Demorest's Rehable Patterns The assertment comprises all the standard and useful Styles, together with New and Elegant Designs in Spring Goods.

SCOTCH LAMB'S WOOL

UNDERGLOTHINGI

CRAWFORD & SMITH Bog to intimate that they have received, or stram-ship Polynesism, direct from the manufacturers,

ONE CASE VERY FINE

LAMB'S WOOL SHIRTS & DRAWERS,

Also special lot very heavy

Scotch Winter Merino Shirts, Drawers and Socks,

Manufactured specially for this market. The attention of gentlemen is directed to this let, as they are not to be found elsewhere.

91 KING STREET EAST.

Music.

MASON & CABINET

For Churches and

THE ONLY American Masters Instrument of extraordinary and recognized excellence ps to command a vide sale in Europe notwith tending competition there with products of cheap labor.

ALWAYS awarded highest premiums, including the Mr Mr Ar and Pauls Exposition, besides having been preferred above all the other Organs at the Industrial Exhibitions in America.

HINVERSALLY recommended by eminent Musicians, at processing excellencies not attained in any otoess. See opinions of ONE THOUSAND MUSICIANS in Testimonial Circular.

ILLUSTRATED CATALOGUE and TESTIMONIAL ORGANS which may save purchasers from disless instruments or payments of high prices,

Mason, Risch,

GENERAL AGENTS FOR CANADA.

Mardware.

HARDWARE.

RODGERS' Ivory handled Table and Dessert Knives RODGERS' Setts, Carvers and Steels. DLECTRO-PLATE

Table,

Dessert,

Tea Spoons Table Mats, Toa Bells, &c., &c., &c.

and

RICE **LEMIS** HARDWARE MERCHANTS, TORONTO

Andertaking.

STONE,

UNDERTAKER,

847 Yonge Street, Toronto-1

Trunorals furnished to order. Fisk's Metalic Burial Cases always on hand, Refingeration Corress supplied whom required.

YOUNG,

Late from G, | Armstrong's undertaking Establishment [Moutreal.]

> UNDERTAKER, 351 YONGE ST. TORONTO.

A Funerals furnished with every requisited Agent for Fisk's Patent Metallic Burial Cases

PIANOS.

THE MATHUSHEK

Is endorsed by the most noted artists of the day as the BEST PIANO MADE.

THE FISHER,

Is thoroughly made, and a most do lightful Parlour Instrument.

THE BEAUTY

Seven octave, overstrung, rosewood, all round corners, three mouldings, back finished like front carved legs, at 2525. Endorsed by Jules Benedict, Pianist to the Queen, Thaiberg, &c., and awarded gold medal at the Renselat Institute

PRINCE ORGANS,

The best in the market. All Instru-ments who is sale and retail, and warranted five years. We are in a position to supply bend dealers in every part of the Dominion at manufacturers' lovest wholesale

NORRIS & SOPER

ADELAIDE-ST., TORONTO.

YORKSHIES / CATTLE FEEDER

For fattening and bringing into condition Horses Cows, Calves, Sheep and Pics—used and recom-mended by first-class Brooders - Milk Cattle pro-duce more milk and butter.

It fattens in one fourth the usual time, and saves food. A DOLLAR BUX CONTAINS TWO HUNDRAL PELDS.

HUGH MILLER & CO.,

Agricultural Chemists, 167 King St. East, Toronto. For sale by Druggists everywhere.

TICKS ON SHEEP.

Miller's Tick Destroyer promotes the growth of the wool destroye the Ticks, and improves the condi-tion of the animat. A SE, low will clean 20 sheep or 30 ambs. Sold by Druggists and Storokeepers. HUGH MILLER & CO., Proprietors, Toronto.



Fide-toxed low priced, warranted; Ot unlars sent BLYMYRR MANUFACTURING UMPANY,

Successors to Blynnyer, Norton & Ob., Cincinnath, O Office and Works 804-894 West Eighth St.

Music.

HAMLIN ORGANS.

he Family Circle,

EXCLUSIVELY employing several important real improvement.

THE MOST EXTENSIVE and complete factoring in the world, producing better work at less cost than otherwise

PRICES as low as consistent with computates employment of only best material and workmanthip. Ministers and Churches literally

CIRCULAR, with Important Information about appointment in purchase of inferior or wort. sent free.

& NEWCOMBE

81 KING STREET EAST, TORONTO.

Medical and Dental.

R. G. TROTTER, DENTIST,

53 King Street East, Opposite Toronto Street

Toronto, Out.

W. ELLIOT, DENTIST.

Uses his own new PATENT FILLERS: EXTRACTORS, and MOULDING-FLASKS.
43 and 45 King st. West, over I. Hooper & Co.
Druggists.

JAS. BASTEDO, SURGEON DEN

Tist,
34 King St cet West, Hamilton, Ont
RESIDINCE—77 Bay Street North where appoint
ments can be made.

Books.

BEAUTIFULLY ILLUSTRATED

MONTHLY MAGAZINES FOR THE YOUNG THE ADVISER-Religious and temperance

THE BAND OF HOPE REVIEW-Ro THE CHILD'S OWN MAGAZINE-

Each of the above costs 25 cents per annum for single copy; ten copies and under 100, 15 cents per copy; 100 copies and over, 14c per copy, including postage.

THE S. S. MESSENGER, 12j cents per copy to schools, when not less than 10 copies are taken. Send for Specimens.

F. E. GRAFTON,

Dominion Sunday School Drifot,
Montreal. The British Workman," "Cottager" "Child" Comp'ion," "Children's Friend," "Infant's Magazine," and a variety of others at 45c. single

Littell's Living Age.

A weekly magazine of sixty-four pages, The Living Age gives more than there and a 40° Age.

The Thousand double-column octave pages of reading matter yearly. Forming four large volumes. Hypresends in an inexponsive form, considering its great amount of matter, with freshness, owing to its weekly fesue, and with a satisfactory completeness attempted by no other publication, the best Exasy, Reviews, Centuisms, Tales, Poetry, Scientify, Higgsphace, Historical, and Political Information, from the entire body of Foreign Periodical Literature.

A NEW SERIES

Was begin Jan. 1, 1873, with entirely now Tales already embracing Serat and Short Stories by distinguished English, French, German, and Russian authors; viz., Loof Lytton (Bulwer), Erckmany-Chatrion, Iran Turguenieff, Mis. Thackeray, Mrs. Oliphant, Frat. Reder, Mrs. Parr ("unther of "Percity Fox.") Julia Kananagh, &c.

During the coming year, as heretofore, the choicest serial and short stories by the Leading Fareign Authors will be given, together with an amount mapping the best literary and scientific matter of the day, from the pens of the above-named and other foremest Essayits, Scientists, Critics, Discoverers and Editors, representing every department of knowledge and progress.

The importance of THE LIVING AGE to overy American reader, as the only complete as well as fresh compilation of a generally inaccessible but indispensable current literature, anti-pensable because it embraces the productions of THE ABLEST LIVING WRITEES in all branches of Literature Science, Art, and Politics,—Issufficiently indicated by the following

orinions.

Reproduces the best thoughts of the best minds of the civilized world, upon all topics of fiving interest "-Philindelphin Inquirer.

"In no other single publication can there be found so much of sterling library excellence."-N. F. F. c. nin " Prot. "The best of all our electic publications."—The Nation, New York.

"And the charkest. A incutally that comes every new?"—The Advance. (This age, "The about essays, the most entertaining stories the facet poorty of the English language, are here gathered togother."—This state Journal.

"With the alone a radge may fairly been un with

"With it alone a reader may fairly keep up with all that is important in the literature, history, politics, and science of the day."—The Mcthedist,

tics, and science of the day."—The Methodist, New York.
"In view of all the competitors in the field, I should certainly aboosen "The Living Ago."—Rev. Henry Ward Beecher. "The best periodical in America."-Rev. Dr.

Husno equal in any country."-Phila Press. "indispensable revery one who desires a therough composition of all that is admirable and noteworthy in the literary world." Resten Post. This Living Aug is sout a year (32 numbers), forf-faid, on receipt of \$8; or, six copies for \$40.

WEXTRA OFFERS FOR 1874.

To now anharribers, now remitting \$8 for the year 1874, the last six numbers of 1873 pill be sent gradic; or, to those wishing to begin with the NEW SERIES, the numbers of 1873 and 1874 (104 numbers), will be sent for \$18; or, to those preferring, the publishers ranke the following

Club Prices for the best Home and Foreign

("Presented of The Living Ann and one or other of our vivations American monthlies, a subscriber with the whole signals on susment of the whole signals on the subscriber signals of the whole signals on the subscriber signals of the subscriber signals o

Typographicat.

BOOK AND

JOB PRINTING,

BOOK - BINDING

ALL KINDS.

DONE AT THE

British American Presbyterian

OFFICE,

102 BAY STREET

Remember the above announcement and favour us with your patronage.

TORONTO.

ACCURACY,

NEATNESS,

PROMPTNESS,

BILLS

assured to all. Proofs carefully read. work done quickly, and your package sent by the first train.

CARDS,

CIRCULARS.

TICKETS,

SERMONS

CATALOGUES,

MINUTES OF PRESBYTERIES.

SYNODS AND ASSEMBLIES.

BLANKS, LETTER HEADS

BILL HEADS

ILLUSTRATED, EMBELLISHED OR PLAIN.

Particular attention paid to

BOOK WORK,

ALSO TO

PRINTING IN COLOURS.

Every description of BOOK-BINDING

executed promptly, and at the usual

We ask our friends, far and near, to

give us their patronage. Our facilities enable us to do the work on terms as favorable as any parties can give you.

Work sent to any place, however

only one side of the paper, and in plain letters and figures. Give your directions in plain language, stating whether or not you

wish the proof sert to you for cor-

Write the matter to be printed

Send orders to

rection.

C. BLACKETT ROBINSON, 102 Bay Street,

Turonto Oct

hard ive to kaep plied

17.77 tion the nt fo ny ing

tes, live hos rks fal. 15 n dei and lity into eby icta i na

luni lere. , er g no luma aist.

ned.

spect a na-ell is , the hree Tè• ginal od is

ar. 1 the and that nd of pre-ithe −Di. ren's

ibject con of of the cotch int. rinter

inge, most

the or and adjes

thin ition ı-l up

st of anics they , are