## The Manufacture of paper and paper IS

Improved methods in machinery and the great change in the character of materials used has had an important bearing upon the printing art. In the earliest mills established in You are Doubtless Suffering from this country, the raw fiber after being prepared in the beating machine. was formed into a sheet in a mold or wire sieve which was dipped from the Ferrozone. pulp vat by hand, the water drained off and the pulp left in a wet sheet in the mold. The sheets so made were turned out upon a felt press and then with incurable Bright's Disease, don,t dried by exposing to the air in single let your kidneys go without attensheets. Such mills were small and tion. Ferrozone is special remedy the output was limited. Strictly for this trouble, and never fails to hand-made paper to-day is a rarity, give prompt relief and bring about a although it exists. By the aid of the perfect cure. Foundriner machine the transforma- Mr. Gordon J. MacFarlane, of Bradtion of the fluid to stock or finished ford was cured by Ferrozone, after paper is made an automatic opera- being treated unsuccessfully by three tion. The pulp is screened from the for kidney complaint. "My kidneys vat over an apron to a moving endless were in a very bad shape," he writes, wire cloth made of closely woven and I had dreadful pains in my back fine brass wire, and supported by a and sides, and was never free from a series of small metal rolls set close dull, heavy feeling, that made life together, yet without touching each miserable. I spent a lot of money on other. In this way an even surface local doctors, but was not benefited to of the wire cloth is maintained and any extent. Then I tried Ferrozone. by preserving an unvarying flow of One box helped me so much that I the pulp and a constant forward mo- got six more, and before they were tion of the wire cloth, the thickness used I was quite well. I never used of the layer of pulp deposited was anything giving such prompt and kept uniform. By lateral motion of lasting relief as Ferrozone. It beats the supporting rolls the fibers are all other kidney cures." caused to interlace in various directions and give greater transverse strength to the texture. As the pulp ten die young. Therefore it is imis carried along on the wire cloth, much of the water drains through leaving the fiber on the meshes. This first drying is usually hastened by various devices and the moist web is carried between rolls which are covered with woolen felt and then taken from the wire cloth endless woolen felts which pass it between rolls, and then to dryers. These are large metal cylinders heated by steam. The paper has now acquired considerable strength. The water has beed evaporated and the heated cylinders complete the drying process. The paper is then given a smooth surface by the calender rolls. which are smooth-faced, heavy metal rollers. Finally the finished paper is reeled off in rolls and cut into sheets the desired size A large paper mill will make 250 tons of finished interesting and instructive papers paper a day. The most modern machinery turns out a continuous web of | tion. finished paper at the rate of 500 feet a minute. The raw materal of wood pulp is spruce, poplar, and in smaller quantities various other woods are employed. Wood pulp has to great extent superseded the use of rags, and entirely so in the manufacture of news paper. The blocks of wood are pressed hydraulically against the edge of a rapidly revolvduced to a mushy consistency.

on "Modern Aid to Printing."

## Sniffeling and Sneezing Colds.

nt used Catarrhozone get it to-day portation, as well as administrative and try it on your next cold. You'll expenses of the association. be surprised at the efficiency of this delightful inhaler treatment which pleases everyone because it cures so quickly, Complete outfit \$1.00; trial size 25c,

## The Verdict of Public Opinion.

warts.

# BACK LAME?

Diseased Kidneys-Surest Cure is

Unless you want to be stricken

People suffering from kidney disorders quickly lose strength, and ofportant to get Ferrozone at once, and be released from every symption of this baneful disease. Price 50c. a box, or six boxes for \$2.50, at all druggists, or by mail from The Ferrzone Company, Kingston, Ont.

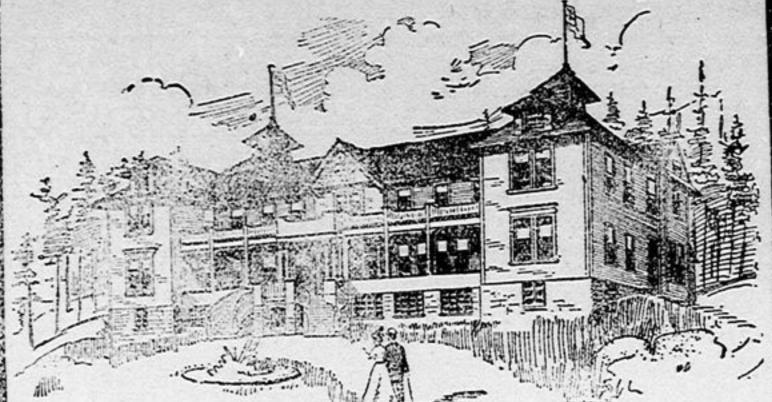
### CO-OPERATION IN FRUIT GOWING

The principle of co-operation among fruit growers, which has been strong ly advocated during the last two years by W. A. MacKinnon of the Fruit Division, Ottawa, received enthusiastic endorsation at the recent annual meeting of the Ontario Fruit Growers' Association at Leamington. The address of the president, the report of the secretary and all the most dealt with the question of co-opera-

A typical example of the practical working out of the co-operative plan was described by Mr. W. H. Owen, Catawba Island, Ohio, who is one of the recognized leaders in the movement across the line. He is manager of a co-operative fruit growers' union which does business in a very large way. The Catawba association confines its attention mostly to peaches, ing grindstone, and by attrition re- though pears and grapes are also handled. The membership is thirty-There is also a chemical process of four, controlling about one thousand making wood pulp which is largely acres, on which there are about one used. The merchantable shape of the hundred and fifty thousand peach fiber differs somewhat. Ground trees, The growers all live within wood pulp is ordinarily sold in folded seven and a half miles of the large sheets only partially dry, and is there- central packing depot. where the fore under common conditions, only grading is done under the manager's suitable for use near the locality of its supervision. The growers do their manufacture, its weight being so in- own picking, and bring in from three creased by the water as to preclude to five thousand bushels of peaches the profitable transportation of such daily. The fruit begins to arrive at a low-priced product. There are 763 central depot by two o'clock p. m. paper-making plants in the United and packing operations frequently States and the total capital is \$167, continue all night. Each grower is 507,713, giving employment to 64,186 duly credited with the amount of persons. The total cost of the mat- fruit of each grade which he contriberials used was \$70,530,236, in 1900. utes to the total amount, and he is The total value of the products was paid in accordance, as soon as sales \$127,326,162, and the total power re- are made. Under the business-like quired for running the plants was system adopted it is possible to make 764,847 horse power .- From the most of the sales direct from the Scientific American's Special Number | warehouse. Free use of the telegraph, telephone and mail service is made in collecting and disseminating information as to the quantity of each variety and grade available. In Can be stopped in a few minutes this way the fruit is disposed of pracand permanently cured in one hour tically as soon as produced. There by inhaling fragrant healing Catarrh- is no refrigerator service at the packozone, No remedy compares with ing house, but refrigerator cars are Catarrhozone for colds in the head supplied by the railways, and the and nasal catarrh. It sooths and fruit is put into them as soon as posheals the inflamed mucous mem- sible. The cost of carrying on the branes, prevents sneezing and cough- business is about seventeen to nineing, clears away the "stuffed up" teen cents per bushel of peaches, infeeling in the forehead. If you have' | cluding cost of packages and trans-

which have become apparent during perfect that a man can order a car of the twelve years that the association Texas tomatoes by grade and feel has been in existence are (1) It en- perfectly sure of getting just what he sures better prices for the fruit. (2) orders. It leaves the grower free to devote his undivided attention to the improvement of production. (3) It en-Is with the best article every time, ables buyers to purchase at a central That's why Putman's Corn Extractor point large quantities of a uniform has been in the lead for the last half grade. Thus they can select precisecentury. It cores corns painlessly in ly the sort of fruit to suit various Use only Putman's for corns and a much stronger position in dealing with commission men, merchants and

"Ganada's Greatest Charity." NOW .



## Muskoka Free Hospital for Consumptives

Not a single patient has ever been refused admittance because of his or her poverty.

FROM THE VILLO

-From Bishop of Selkirk, Caribou Crossing, Yukon: "The trifling remutance (\$10.00) herewith enclosed, is intended to express our sympathy for the sufferers in other parts rather than imply a special need for your institution here."

CONFEDURATION LIFE ASSOCIATION

-J. K. Macdonald, Esq., Managing Director Confederation Life Association, in sending cheque for \$500.00 from his Company, says: "I am pleased to be able to be the medium of helping on so good a

## Funds Urgently Needed

The financial reports for the year just ending show that to keep the doors of the Free Hospital for Consumptives open, maintaining the number of patients for which accommodation has been provided, not less than \$25,000 is required for the year now entered upon.

Since the Free Hospital was opened (18 months ago) 224 patients have been received. The help the institution has been to these people—all from the wage-earning and poorer ranks of life —cannot be estimated in human language.

-Edward D. Heddon, Solina, Ont., on leaving the Free Hospital, writes: "I cannot speak too highly of the institution from which I have received so much benefit. I can but tender my best thanks for the kindness shown."

-Minnie Linklater, Hamilton, writes: "I have spent over nine months at the Free Hospital for Consumptives. I believe I have been greatly helped, and shall never hesitate to use my influence to further that good cause."

There is no endowment, excepting the provision made by three life insurance companies for six beds for the current year. Only by the continued contributions of the Canadian public can the work be maintained.

Patients are accepted from every part of the Dominion, and there have been in residence during the past year patients from Prince Edward Island on the east to the Northwest Territories on the west.

Contributions may be sent to SIR W. R. MEREDITH, KT., Vice-President National Sanitarium Association, or Mr. W. J. Gage, Chairman of the Executive Committee, Toronto, Can.

possibly have as individual shippers. producer of poor fruit will almost (5) It provides for the proper distrib- certainly be led to improve the qualution of fruit, so that one market ity of his output. If he will not do may not be glutted at the same time this he will have to get out of the that another if left bare of supplies. association.

This latter point was emphasized by Mr. W. H. Dawson, the Toronto Commission merchant, by a reference to the co-operative system of handling the Texas tomato crop. This is handled by one man stationed at St Louis, and the system is so thorough that market demoralization is absol-Among the advantages of the plan utely avoided. The grading is so

Something has already been done along these lines in Ontario, and we are still far behind California, Ohio, Michigan and other States. · One of the most progressive co-operative associations in Canada has its headcentury. It cores corns painlessly in ly the sort of fruit to suit various quarters at Walkerton, in the cele-twenty-four hours and never fails. markets. (4) It gives the members brated Huron apple district. Mr. A. eration. Hard working men usually E. Sherrington, the manager, report- have irritable nerves and should forted that last year the association made ify their systems with a course of its first trial in the co-operative work | Ferrozone, a tonic that rebuilds and by forwarding to Manchester, Eng., revitalizes beyond all telling, Its two cars of Duchess apples, which just wonderful the strength that arrived in good condition. In addi- Ferrozone imparts to broken down tion to these three cars of winter ap- men. It forms new blood, supplies ples were packed and sold. This year the system with abundant nurishthe association has prospered beyond ment, and where formerly there was all expectations. There are now tiredness and lassitude Ferrozone esabout fifty-five members, with an tablishes a reserve of energy and vim, average of four acres of apples each. Try Ferrozone,-price 50c. per box. Fifteen cars of apples have this year been shipped on the co-opertive plan. Not only have the prices been better, but more fruit has been sold than would have been possible under the old system. Even the early varieties of apples were put upon the market in good condition. Just as soon as the Duchess, for instance, were ripe, all co-operators were notified to begin

carrying companies than they could | received from our fruit crop, the

In the course of the discussion, Dated 4th December, 1903. Mr. McKinnon said that, in his opinion, no system of co-operation would be complete which did not start at the beginning, and introduce uniform methods in the selection of varieties, in planting and topgrafting. in orchard management, including spraying, and even in the buying of sup-

Yours very truly, W. A. CLEMONS, Publication Clerk.

## The Man Who Works Hard.

Perseverance and wili-power he must have, but whether he has strength and vigor is an other consid-

## TO CONSUMPTIVES.

picking at the same time. In this way a car would be started with the fruit within two days of the time the apples were taken from the trees. If he can, said Mr. Sherrington, by this system in a said Mr. Sherrington, by this system is a said Mr. Sherrington is system increase the general returns | Rev. EDWARD A. WILSON Brooklyn New York

#### For Sale.

HELP

NOW.

Hall down stairs, stone cellar under all of the house, 3 acres of good land, school first place outside town of Durham, every-50 rods from house, 1 and one half miles thing in first-class shape, good new brick from town. Apply to C. L. GRANT, or

MRS. WM. WILLOUGHAN.

### Hogs for Sale.

THE UNDERSIGNED HAS FOR Sale a large number of Cinderilla, Cambridge and Yorkshires, which he will ship to purchasers to any point. For further particulars apply to,

OWEN HEFFERNAN, Marden P. O. Nov. 25th-tf.

## Sheep Estray.

MAME TO THE PREMISES OF the undersigned. lot 29, con. 2. E. G. R., Glenelg, one white ewe. Owner may have same by proving property, paying expenses and taking her away.

HUGH VAUGHAN, Edge Hill.

#### Park Lot For Sale.

DARK LOT NUMBER 13 NORTH of Saddler street in the Town of Duracres more or less. For terms and particu- fenced, well watered with springs and runars apply to

J. P. TELFORD,

## Farm for Sale.

DEING LOT NO. 2, CON. 5, GLEN-D elg, containing 100 acres, about 70 cleared and 25 acres of good hardwood bush and five acres of good cedar. The farm is well watered by a never failing spring creek and a well, fairly well fenced, n good state of cultivation, fit for farm machinery. Convenient to church and school, five miles from Durham Terms to suit the this colt. Matthew Scott is always in atpurchaser. For further particulars apply tendance, one door east of Crown hotel.

A. H. BURNETT, Hopeville P. O. Aug. 15th,-tf.

## NOTICE TO CREDITORS

IN THE SURROGATE COURT OF THE COUNTY OF GREY.

In the matter of the Estate of Robert Jardine, late of the Township of Glenelg in the County of Grey, Farmer, deceased.

NIOTICE is hereby given pursuant to "The Revised Statutes of Ontario" 1897, Chapter 129. Sec. 38, and amending Acts; that all persons having claims against the Estate of the said Robert Jardine, who died on or about the 23rd day of November, A. D. 1903, are requested to send by post prepaid, or to deliver to the undersigned Solicitor for the executors, on or before the

duly verified; and that after the said -Handsome 1st. by Exchange,-Hope by Leamdate last mentioned, the executors ington Lad,-Gitt, by Wilhire Lad. will proceed to distribute the assets of the deceased among the parties en- Nov. 5th, 1903-2m. titled thereto, having regard only to the claims of which they shall then have notice.

Dated the 1st day of December, A. D. 1903.

J. P. TELFORD, Solicitor for the Executors, JOHN MCARTHUR and THOMAS COOK.

## WANTED.

## Forty or Fifty Good Men

For the woods, to commence work about New Years. To good men, the highest wages current will be paid.

For particulars apply to

J. P. TELFORD, Durham.

Harvesting Machinery and farming implements of all kinds.

McCormick Binders, Mowers and Rakes.

Bissell Disc Harrows and Land

Domestic Sewing Machines.

Rollers.

Steam and Gas Piping and Fit-

Castings of all kinds made to order.

Saws gummed and fitted.

Repairing promptly attended to

## For Sale.

BRICK HOUSE, 4 ROOMS AND TYALUABLE PROPERTY SITUAT-V ED on North side of Lampton Street, house, good bank barn, 11 acres first-class land, large orchard set out last spring. A first class place for any body. Apply to

KEELER, the Jeweler, Oct. 13th, tf, Durham.

## Farms for Sale.

THE UNDERSIGNED OFFERS I for sale Lots 8 on Con. 21, Egremont, and 3 on Con. 4, S. D. R., Glenelg. Lot 8 consists of 100 acres, 90 acres cleared, well watered and fenced, 80 acres fit to run Machinery over, good large brick house and bank barn, small orchard, h mile from post office and 11 miles from school. Will be sold on easy terms. For further particulars apply to

JOHN WHITMORE, Durham P. O. Aug. 8th,-6mc.

#### Farm for Sale.

DEING EAST PARTS OF LOTS D 4 and 5, Con. 2, W. G. R., Normanby. Also part of second division of Lot 3, Con. 1. Normanby, containing in all about 110 acres, 90 acres cleared, 20 acres of mixed ham, in the county of Grey, containing 4 bush land, log house, good frame barn, well ning brooks, in good state of cultivation, fit for all kinds of agricultural machinery, convenient to church, school and mills, Vendor's Solicitor, Durham Easy terms. A good chance for quick purchaser. For further particulars apply to T. R. WHELAN, Durham P. O., or the Proprietor W. R. Rombough, 254 Borden Street, Toronto, Ont. August 8th, 1903.

#### For Service.

YOUNG CLEAR GRIT STALLION "Prince Bobs." Anyone wishing to use a horse of this kind would do well to

H. WATSON, Feb'v 26.-tf. Priceville.

## House & Lot for Sale.

HOUSE AND LOT ON QUEEN Street, the property of Mrs. J. I.. Browne. The house contains 12 rooms, coveniently situated, and quite new. Will make an excellent boarding house. For particulars apply to

J. L. BROWNE, July 10th, 1901. ti. Photographer.

## Boar for Service.

"CONCORD GENERAL."

EGISTERED PEDIGREE NO. 12377, will be kept for service during 1903-4, at Lot 26, Con. 4, N.D.R., Bentinck. Terms \$1.00. 

PEDIGREE. Farrowed March 9th, 1903; bred by Thos, Teasdale, Concord, Ont. 2nd owner, Robert Britton. Allan Park, Ont. Sire Perfection (imp. in dam) -9801-(bred by P. L. Mills, Ruddington Hall, Nottingham, Eng.) dam Maud S.-11073-(bred 25th Day of December A. D. 1903, their names, addresses, and descriptions, and full statement of particulars of their claims, and the nature of the security (if any) held by them duly verified: and that after the said

> ROBERT BRITTON, Prop. ALLAN PARK,

## Farm for Sale or to Rent on Shares.

T OTS NO. 46 AND 47, CON. 3, I S. D. R., Pentinck, containing 162 acres. Good buildings and well watered. For particulars apply on the premises.

ALEX. BEGGS, Durham P. O. Aug. 11th, 1903.—tf.

## For Sale.

T OT 3, ELGIN STREET WEST on which there is a good solid Brick House 20x30, 7 room; Barn and 1 acre of land ; good well and young orchard ; good stone basement to barn. Also lots 3 and 4, Kincardine Street west, containing 1 acre. No buildings. This property will be sold en block or separate to suit purchases. Owner going west. For terms apply to

WM. WILLIS, Durham. August 3rd.-tf.

## For Sale.

DESIRABLE PIECE OF PROP-A erty consisting of twenty-five acres one-half mile east of Corporation of the ToOn of Durham, described as South part of Lot 59, Con. 2, E G, R., Glenelg. On the premises is a comfortable brick fiveroomed cottage, a good frame barn and stable, a small bearing orchard, an abundance of the best running water. All cleared, title good. Terms easy and price Dealers in and Manufacturers of right. For further particulars apply to

THOS. DAVIS, Lot 2, Con. 3, N. D. R., Glenelg, Sept. 28, 1903. -3mos.-c. DURHAM P. O.

## First-class Farm of 212 Acres for Sale or Rent.

T OTS 2 OF 10, AND 3 OF 10. first Concession of Egremont, and Lot 23, second Concession of Egremont. These lots are in one block, although on different concessions; 180 acres cleared and in a good state of cultivation, balance good bush. Both farms are well watered with spring creeks, one creek runs close to the barn. Good-bearing orchard of two acres. Good brick house, 32x24; kitchen, 16x22, finished in first-class order. Barn, 62x73 ft., with stone basement capable of holding 53 head of cattle; also horse stable, pig pens, her house and all the building necessary tor well-equipped farm; large weigh scales as slaughter house on farm. This property well fenced, and a lane runs through cer of farm, connecting both farms, from a to second concession. Will be sold in ser ate parcels if thought advisable. Tere suit purchasers. Will be sold at a bar as the owner is giving up farming.
property is 5 miles from Durham
from Mount Forest and 3 miles from
stein, on the Garafraxa road. 8
church concenient. Apply on

safe for coughs and irritation of the throat. 10c. a box. ALL DRUGGISTS. L'EEMING, MILES & CO., 1651 Notre Dame St., Montreal, Canadian Agents

Established 1879. Whooping Cough, Croup,

Bronchitis, Coughs, Grip, Asthma, Diphtheria.

Cresolene is a boon to Asthmatics. CRESOLENE is a long established and standard remedy for the diseases indicated. It cures because the air rendered strongly antiseptic is carried over the diseased surfaces of the bronchial tubes with every breath, giving prolonged and constant treatment. Those of a consumptive tendency, or sufferers from chronic bronchitis, find immediate relief from coughs or inflamed conditions of the throat. Descriptive booklet free.

CRESOLENE ANTISEPTIC TABLETS dissolved in the mouth, are effective and