1902.

om Britain.

d Mammoth Long

ellow.

Globe.

ange.

MERICAN SEEDS y, Orchard Grass. an, Teares, Grass ease, Rye, Buck-

d and Field Corn. asges. Short White.

Broad Leafed Sow. feeding Rape you

eed Meal, Cattle Phosphate, Wind-

AM, ONTARIO.

SOURCE CONTROL

rets. Our secret and it prrying. The 's lose money made and sold it? Consider rices. Make

late styles. ain in Can-

epairing.

MAN

200000000000000

w Machinery.

ust added a new cleaning machinaction from rolls, for steaming the and are now preo furnish a fine f flour. Give us and be convinced.

eakfast Food.

also got our new in first class order, and have quantity of Chopn. Wheat, etc. on Give our Break. trial. It's good.

AN.

100000000000

machinery so rost & Wood gency for the o extensively ssary to say ng. however, xamining our See 'them.

Market. ampion Seed

ning a farmer ndard Sewing Everybody | Gray Buggies We have the National White & Son.

n, Ont.

0000000000

The Plant at Durham a Manymoth Establishment with the most Modern Equipment and has made the Town Hum.

GREAT FUTURE FOR THE PRODUCT boots and neglects his heels, and I'll

Cement the Building Material of the Future-A Canadian out for the heels, and obscure point-Company Developing a Canadian Industry from Canadian Raw Materials.

grounds, saving them thousands of

dollars. The foundations are built

to the proportion of 5 of gravel to 3

packing it between boards in any

shape or width required, pull away

the boards in a few days, and there

Superintendent Layton, as he picked

concrete. The splinters flew, but the

That's the difference between an

NOT ONLY STRONG BUT CHEAP.

of her great buildings before the va-

lue, durability, cheapness, and vital-

ity of concrete was known, and the

National Portland Cement Company

pany's strong box in their new-made

was once a farmhouse but is now

A TOWERING MONSTER.

PATRONIZED HOME INDUSTRY.

the Dominion, notably the rotaries,

which are used for calcinating. These

Your correspondent has noted with

30 feet of solid concrete.

"That's a ripe foundation," said

is the foundation complete,

was as hard as flint.

apple and a concrete wall.

(Frem the Toronto Daily Star.)

Durham, May 10 .- " Gee, haw there." As Henry Burnett spoke the horses obeyed, and turned to the right or to the left at will, and as he followed the plow in this field near the town of Durham, he left behind a straight, deep furrow. In the distance the hillside, and the cattle out to nip the first spring grass, and the sheep were running up and down the

Presto, change!

The horses have gone, and the voice of the yeoman has fled. There are no cattle on the hill, no sheep run down the lane. in its place is the voice of the builder, the bustle of business, the sound of the saw, the steam engine, and the musical echo of the hammer, as it makes solid the iron rivets. And from the field where the farmer plowed not long ago is rising the most complete cement plant in the world, and the world is \$25,000 miles around.

DURHAM THRILLS WITH PRIDE.

have proven that it can save money This is a proud boast for Canada, by using the article it advocates. but it is a prouder boast for Durham. The town is already feeling the new wave of good time has touched the complete within a month." adjoining villages, and they are singing the same chorus, lots of work and blocks." plenty of money to do it with. And those who know say that the establishment of the cement plant is largely responsible for the whole business.

When your correspondent met Herr and much more attractive in appear-V. Hahn, proprietor of the Mildaugh ance than brick. House, that gentleman was explaining that every room in his hotel was taken, that gentleman was explaining that every room in his hotel was taken, but that he had a few stretch left. It's a case of come early if you want a front seat in the Durham hotels to-day.

A VISIT TO THE PLANT.

It was 8.30 in the morning when concrete vault in their office, which we reached the site.

Just stop a minute! Turn back the pages of time a few days. On the 26th of September last, ence. quietly, unostentatiously, the first commencement of the works. Thirty The smokestack is a huge affair; it Scientists say that unless the sky- light given, by these natural forces. five days after a line of railway was will reach towards the blue nearly scrapers have their steel work cover- This would mean an immense saving. completed from the Grand Trunk to 200 feet, and will be one of the tallest ed with cement the life of the buildthe grounds. From that day over in Ontario. This stack is of steel. ing is shortened and catastrophe 400 car loads of material have arrived and will stand alone, without so invited. So steel is really dependent for the carrying on of the construct much as a single guy. And in the upon cement. This granted, the bus-

Four hundred cars!

Say it slow. That's a lot. Ten times more train lengths than that wagons and mysterious cages. Four its way through a town. The wind in this present year nearly 1,200,000 up by machinery, and by machinery to follow. Some of the material ows of the works, and the entire It is gratifying to notice that the it is at last emptied into barrels, and comes in a tiny box you could put in your vest pocket. Some of it comes resting on two cars. one could'n carry it. Sampson himself wouldn't be town wags say: one one, two, three in lifting it.

than ever." And this is the spot where coment automatically, by the magic of mach- erect by its foundations of concrete, barrels and seventeen million con-

much of the cheapness with which slabs in God's acre. Americans produce their manufactured articles, how they filood the world at will. Here the best plants pleasure that the company has purwill be met and checkmated in their machinery, however, is not made in pany's stock was placed many technical terms

and so they have built their founda- shaped like cannon, and hollow at tions of cement. No building is shaped like cannon, and hollow at the brokers did not even get a slice loaded on cars by specially construcstronger than its foundation, and each end. Here the marl and clay of it. The same old story of push ted machinery, in which compressed their foundations are imperishable. meet the fire for the first time, and and enterprize, veni, vidi, vici, and air pays an important part. of cement are the cheapest, and that These rotaries are eight in number so I am informed, could easily be subthese foundations are the strongest, Great and grim they stood, as if anand consistently built, according to xious to begin to whirl. Grim be- shareholders in the company, all mouth of the receiving hopper, where

on as rapidly as possible. This spring massive that and the of life, lawyers, doctors, members of comes into contact with machinery

the scarcity of men. Hundreds of tons of concrete are represented in the foundations. Some of them are 18 feet deep and 2 to 10 feet wide. The laugh at time the idlers upon which they revolve is which they are interested. nature has been good to the National Another massive machine is the springing as it were, into the public the same trestle on which the marl is Portland Cement Company, and given Krupp Ball Mills, which came from eye for the first time through the received large hoppers are provided them all they require on their own Essen, Germany, and which is set on medium of this communication, it is for receiving the clay. This is done

buy or the world produce.

A SPLENDID SYSTEM.

"I den't care a rap about your strong points : guard the weak ones. was the advice a Northern general gave the colonel of a regiment planning a strategic move.

The National Portland Cement Com pany have been paying attention to all possible leaks.

"Show me a man who cleans his show you a man without a guiding purpose," is the utterance of a modern sage. The company are looking of the business. The machine shop, which is fully constructed, is selfcontaining. If any part of the plant becomes deranged it is not necessary to send the broken part away.

It is a case of Johnny on the spot. and fixed at once. The stock room is also under careful supervision, and of sand and one of cement. It is every part kept in account, down to simply a case of mixing it up and the smallest screw.

A BRIGHT FUTURE.

This is the age of cement.

pointing to the pyramids, said : up a big stone and hurled it at the

missile left no mark. The concrete you.'

Napoleon has passed, but the pyramids still stand inexorable, mysteri-The older an apple gets the riper and softer it becomes; the older a con ous, defiant, laughing at the sun, the wind or rain. crete foundation gets the harder it

But they don't an-Time knocks.

This is an age of cement, and because it is, buildings are being erected with foundations as sure as those The United States has built many | cf the pyramids, now solid stone.

The uses to which cement may be foundation work. put are innumerable. Canada is now awakening from her Rip Van Winkle slumber, is beginning to realize the vast posibilities for this article, and, taking a leaf from the book of the "See that building?" said Chief older nations, is utilizing the results throb of life which a large industry Engineer Bogardus, pointing to the of their experiments for berown benalways brings in its wake. Houses auxiliary power house. "There is efit upon her latent resources. Cemare scarce, there is not an idle ma a building with dimensions 105x73. ent is now being used in all manner in the place, and every one has the Those foundations were hard in three of forms, and many believe that the price in his pocket. Not only is Dur- and a half days. Had they been built business is but in its infancy. Railham unusually prosperous, but the of stone they would not have been way corporations, who know no friends, save the dollar, have tired of "They are made of hollow cement the immense sums necessary for the maintenance of repairs, and are building their culverts of the solid article, Thus the National Portland Cemwhile monoliths of concrete have ent people claim that by using cemtaken the place of the steel and iron ent they have structures at 35 per bridges. Great skyscrapers, touching cent. less cost, 100 per cent. stronger to the fringes of the clouds, are made of cement; mansions and humble homes, and then back to railroad ties As the foundations are unique in again. The list in which cement may the history of factory building in now be used is startling; locks dams Canada, so is the plant. It is all of sewers, culverts, breakwaters, retainthe newest description. Much of it ing walls, piling, crib and gutter is of the original designs of Enginee work, barn floors, barns, silos, reser-Bogardus, and cannot be duplicated, voirs, chimneys, and even roofs, and as the plans for its construction are a much greater list might easily be carefully locked away in the com- mentioned.

A PHENOMENAL GROWTH.

The growth of the cement industry taking to itself the dignity of red has been one of the tusiness phenoink, rulers, plans, and the accessories mena of the present age.

Steel has made tremen leus strides of the strenuous mercantile exist-So has cement.

They go hand in hand,

erection of the stack the utility of iness in Canada is but in its infancy.

neighborhood visited the site the wholesome sentiment, "All things all without the touch of human hand. next day expecting to see the stack equal, support home industry," is beprostrate. But it was there, and the ing recognized among the cement consuming public of Canada.

"The gol darn thing's straighter Germany with an area less than Ontario, has 80 Portland cement facbut the very fence posts are moulded sumed at home. In the United States A morvellous thing this, a tribute from it, the factory grounds of 20 a similar growth has been noticed, to the best brains of this 20th cent- acres will be enclosed by these posts, running from two million barrels in The world has been hearing which are as enduring as the marble 1890 to 12,000,000 in 1900, and with barrels a year.

A CANADIAN CONCERN.

The National Portland Cement Com not advertised in the sense of the Portland Cement Company will prothe stock has been all subscribed and From the marl bed to the works is

concrete foundations 21 feet 6 inches interesting to note the strong person- in a manner similar to which the high. This mill is a mysterious look- ality of the directorate. Mr. A. F. marl is handled, the clay being dising affair to the man whose know. McLaren. M. P., Stratford, Ont., pres. charged by gravity into storage hopledge of machinery is limited, but ident of the Imperial Cheese Com- pers, and into a disintegrator, which the company claim it is the most pany, Limited; Barlow Comberland, granulates the clay. This clay is perfect of its kind that money can vice-president Niagara Navagation then dredged, and conveyed to the Company, Toronto, Ont ; P W. Stan- mixing mill, where it first meets the hope, Ontario manager of the Mc- marl. Provision has been made so Cormick Harvesting Machine Co., that chemists can obtain an accurate Toronto. Ont.; W. F. Cowham. man- analysis of the clay and marl, so that aging director of the Peninsular a proper amount of each may be de-Portland Cement Company, Jackson. termined for each mix. Means are Mich; Gilbert McKechnie, ex-M. P. also provided so that analysis of the P., merchant, Durham, Ont.

THE SECRET OF : UCCESS. Carnagie says: "If you want to succeed, surround yourself with specialists smarter than yourself."

It is pleasing to note without rflection upon the directorate. that they have acted on Carnegie's advice, and have in all dedartments of the construction work on the Durham mili secured the first men in America.

This is the day of specialists, and the men engaged in the erection of the big plant here are specialists. The plans have been so accurately followed out that the heaviest machinery has been set in place without so much as stripping a thread in a bolt.

On W. B. Bogardus, chief engineer, falls much of the mantle of praise. Mr. Bogardus is a young man, but has already crowded more experience Napoleon, the maker of empires into his life than many men do in an and the unmaker of kings, sat on his entire existence. He is a geniushorse under the Egypian sky and, that's all there is about it. Mr. Bo- from the Essen Krupp Gun Works. gardus has already erected nine of Germany. From there, the material "Men, 4,000 years look down on the largest plants in America. Mr. is automatically carried to tube mills Bogardus knows the business from for finishing, and from there it is the ground floor up, from A to Z, from taken to the warehouse automaticalhim in the engineering staff M. De or, W. H. Sutliff and A. Laidlaw.

OWN THEIR OWN ROAD.

pany own their own road, cars and night and day, steam being turned engine, and have been incorporated on for the first time to-day. under Government charter with full railroad privileges. The line was constructed by Barnabas Gibson, for over 30 years connected with the Grand Trunk Railway, and while the McRONALD-In Bentinck, near Vickers, road is not as long as the Trunk, it is, so Mr. Gibson boasts, just as strong and just as wide, It runs out to the marl bed, where the supply is absolutely inexhaustable.

The other specialists who have charge of the various branches of construction are: G. McGrane, machinery; H. Weiner, carpenter on buildings; W. Neufer, carpenter on foundation and templets.

THE SITE OF IT ALL.

Nature has been good to the company, and besides giving them sand and gravel for building, she has produced a splendid flow of water, close at hand. Taking advantage of the kindly law of gravitation, and the gentle incline from the marl bed to the mill, the cars of marl will run without appreciable power to their destination, thus at one stroke lopping off a considerable item of expenditure. Gas and oil are distinctly traceable on the company's land, and your correspondent would not be surprised if in the future the entire plant would be run, power generated, and

The way that the cement will be manufactured in Durham is little short of the marvelous. A few years ago it would have been looked upon cement is again shown, it will be held Twelve years ago, if your corres- as incaedible, and even to-day, with by anchor bolts that are fastened into pondent is correctly informed, there the most perfected methods on every was no Portland cement manufact- side, it will rank as the only mill in In Uucle Sam's land a tornado tore ured in Canada. It is expected that the world where the marl is scooped tore off roofs and blew in the wind- barrels will have been consumed here. carried on and conjured with, until

> All the human hand has to do with it is to tie up the bag, or put the head in the barrel.

Besides a great saving of labor, the cement is in this way made of a uni-Not only will the stack be held tories, with exports of three million form grade, for, as one of the leading directors said, machines never tire; they don't strike, don't get moody; they will not neglect their work, and when it is remembered that some Canadian cements have not been uniform in gra e or satisfactory in test, the adpotion of machinery is looked upon as a shrew and successful business move.

IN PLAIN ENGLISH.

usual page advertisements in the lead duce their article. The marl is Company believe that what is sauce in simply means have steel affairs 70 usual page advertisements in the lead duce their article. The marl is

cause they looked like immense can- Canadians, all sanguinge, all hopeful they are automatically emptied. All last fall the work was pushed nons; great because they are so of the future of their country. The These cars have a capacity of 70,000 on as rapidly as possible. This spring massive that they have had to be shareholders are men from all walks pounds, and from the hopper the marl are the largest, most up-to-date ro- lative Assembly, farmers and city again dropped by gravity into storage taries in the world, and some idea of men. Men who will be personally bins, which each contains enough to their weight may be gained when it interested, and in many cases able to make 200 barrels. These bins are is said that the combined weight of assist in the sale of the article in again discharged by gravity along into special mixing mills, where the In view of this gigantic concern proper amount of clay is added. On

mixture is checked, to be sure that a proper mixture has been made before it is finally burned. This mixture goes into large storage tanks, which each contains a capacity of 200 barrels. This goes through tube mills, where the material is ground so fine that 88 per cent. of it will pass Lawn Mowers through a sleve of 10,000 meshes to the square inch.

From these special grinding mills the material is taken to another row of large storage tanks, where a storage capacity of 1,600 barrels, besides that already mentioned, is provided. Paints Then the stuff is taken by machinery and fed by automatic feeders into gigantic rotary kilns. From these rotary kilns, in which the marl and clay are united by fusion, at a temperature of 3.000 degrees Fahrenheit, they discharge from the kilns into a conveyor, and are transported to the Clauss Razor grinding building, where the clinker is ground in the machines purchased

stem to gudgeon, and has assisting ly. These automatic carriages will Sheep Shears distribute the cement to any bin in Lano, Jr., W. J. Maytham, J. Train- the warehouse, and in the passage from the bin to the car mechanism is Mr C. E. Layton has been a valu- again called in use; and so from the able aid to the engineering depart- time it is marl to the moment it bement, and is also an expert by reason comes cement, and is placed in the of having assisted in the construction warehouse, no human hand really Bicycles of many leading American plants. takes part in the making. The whole He has charge of all concrete and process is upon the American linethe elimination of labor.

Electric light is now installed at The National Portland Cement Com | the plant, and shifts are working

BORN.

Thursday, May 15th, to Mr. and Mrs. Jas. McRonald, a son.

MARRIED.

HUNT-CUFF-At the residence of the bride's father, on Wednesday, May 14, by Rev. Rural Dean Ryan, Mr. Herb. Hunt, of Vickers, to Miss Margaret Cuff,

Coughs, colds, hoarseness, and other throat ailments are quickly relieved by Vapo-Cresolene tablets, ten cents per box. All druggists

Come and deal at the Hardware store where you can get everything you require from a Needle to an Anchor.

Every lawn in town can be made a great attraction by using one of our Lawn Mowers.

Our weekly supply of Ready-Mixed Paints has arrived. Do not buy inferior paints when you can get Sherwin-Williams.

Every man his own barber by using a Clauss Razor. There is nothing to equal it.

Secure a pair of our Sheep Shears and you can get a good price for your wool.

Two very fine Ladies' Bicycles for sale cheap. See them.

Miscellaneous

Just to hand an immense shipment of Carpet Beaters, Carpet Sweepers, Bicycle Supplies. Fishing Tackle, Churns, Wheel Barrows, Etc.

SECONDO CONTRACTOR

JAS. IRELAND

REMEMBER THE PLACE - - LAIDLAW'S OLD STAND.

.. The 24th ..

Is when you want your new Hat; and we're going to help you get it, too. We've prepared a surprise for you in the Millinery Department, and for the remainder of this week we are selling our Trimmed Millinery at very unusual bargains.

> We can give a Neat, Pretty Trimmed Hat at One Dollar, or any price above that.

HATS! HATS!

Ready-to-Wears.

At very special prices. \$2.25 Ready-to-Wears going at \$1.65. \$2 Ready-to-Wears going at \$1.45. Ready-to-Wear Hats that are cheap at \$1.50 and \$1.60 will be sold for \$1.15. Black Walking Hats were \$1.00 and \$1.25 are now 75c and 85c.

> White Walking Hats with Fancy Drape were \$1.25 now 75c. Call and see them.

.. This Week..

JAS. IRELAND

REMEMBER THE PLACE - - LAIDLAW'S OLD STAND.