## Consignors of Butter and Eggs

has held at the same price for some time past and is not likely to advance. Therefor our old plan of selling immediately instead of holding stock and taking chances has more money not only for ourselves but also consignors.

For good, fresh Eggs there is a big demand and as they don't improve with age ship promptly and receive prices paid for fresh stock.

Returns as usual 1st and 15th of each month.

NOTE-After November 1st we will occupy the Turner and McKeand Warehouse on 147 Bannatyne Avenue East.

PORK PACKERS COMMISSION MERCHANTS

### To Lumber Purchasers

We are manufacturing all kinds of BRITISH COLUMBIA FIR, SPRUCE and CEDAR LUMBER. We also carry in stock a full supply of Pine, Native Spruce, Building Material. Also Perfect Maple and Birch Flooring, (end matched, hollow back, bored and polished), Red and White Oak, Lath and Shingles, Sash, Doors and Mouldings, Cedar and Tamarac Posts, Building Paper, etc., etc., at bottom prices, guaranteeling satisfaction.

No trouble to show you our stock. See us before placing orders.

### THE B. C. MILLS TIMBER AND TRADING COMPANY

GEO. W. CAMPBELL, Manager.

P. O. Box 604

OFFICE AND YARD, COR. PRINCESS AND FONSECA ST., WINNIPEG, MAN.

Telephone 777.

# Apples!

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Now is the time to close your contracts for car lots. Subject to prompt acceptance by wire or letter we offer straight cars, well assorted varieties, principally colored, guaranteed equal to ex-

port pack, at \$1.50 f.o.b. Ontario, subject to 30 days terms.

Apples!

Why go to Ontario, when a reputable and

responsible Manitoba firm is prepared to protect you and see that you get what you want.

### R. A. ROGERS & COMPANY

WINNIPEG. MAN

#### Aluminum.

The first electro-chemical enterprise to be established at Niagara was that of the Pittsburg Reduction Company for the manufacture of aluminium. Aluminium is a subject in which I have always been deeply interested, having listened to Woeh-ler's account of the discovery of aluminium, having been shown by aluminium, having been shown by Heinrich Rose the aluminium which he first extracted from cryolite, having known St. Claire Deville, who first manufactured the metal on a commercial scale, having been a warm friend of Castner, who, by his cheap sodium process, at one time monopolized the manufacture of aluminium, and being the intimate triend of Hail, whose electrolytic process now produces all the aluminium of commerce.

It was a remarkable fact, after all

cess now produces all the attainment of commerce.

It was a remarkable fact, after all the attention that had been devoted to the subject of aluminium by St. Claire Deville and other chemists, that it remained for a young graduate of Oberlin college, Charles M. Hall, to devise the process by which all the aluminium in the world is now manufactured. It occurred to young Hall, whose attention was drawn to this subject while he was still a college student, that some way might be be found for extracting aluminium by electrolysis. Satisfied that it would be impossible to employ an aqueous solution, he sought for other solvents, and finally discovered that a melted bath of the double flourides of aluminium and metals more electropositive solution, he sought for other solvents, and finally discovered that a melted bath of the double flourides of aluminium and metais more electropositive than aluminium, such as sodium or calcium, was a perfect solvent for alumina, taking it up as promptly as hot water takes up sugar, and dissolving as much as 25 per cent of its weight. Having thus found an anhydrous solvent for alumina, the next step was to ascertain whether the solution would yield up the aluminium promptly to electrolysis. The most gratifying success attended his experiments, and with great intelligence and patience Hall worked out the practical application of his discovery first establishing works at Kensington. Pennsylvania, and subsequently moving to Niagara Falls. At the present time the company has two works at Niagara, one takes 5,000 electrical horse power from the Niagara Power Company, the other takes an equal The vessels or pots employed in the making of aluminium are rectangular iron boxes, thickly lined with carbon and exhibiting a cavity in the carbon about 4½ feet long by 2½ feet wide, and about six inches deep. The carbon lining constitutes the cathode. The anodes, 40 4n number, four rows of 10, consist of curbon cylinders about 3 inches in diameter, and 18 inches long when now. They are supported above the pot, dipping into the bath of fused fluorides. No external heat is employed, the heat developed by the resistance to the current being all that is necessary to maintain fusion. Aluminia is added from time to time as required. The process proceeds quicity, the resistance of fered by the bath charged with alumina being very low, but the mcnent the alumina is exhausted the resistance increases fourfold. In order that the workmen may be made agware of the

ceeds quicily, the resistance offered by the bath charged with alumina being very low, but the mcment the alumina is exhausted the resistance increases fourfold. In order that the workmen may be made aware of the state of the bath, on incandescent lamp is attached to each bath, which emits no light during the low resistance, but which shines brightly when the resistance, and consequently the electromotive force, at each bath increases sufficiently, so whonever one of the incandescent lamps begins to shine the workmen hasten to stir in a fresh supply of alumina. The process proceeds quietly day and night. It is only necessary to keep the baths supplied with alumina, and every 24 hours tap the pots and draw off the metal. There are over 100 of these pots altogether, and the yield is about 100 lb of aluminium per pot every 24 hours, or about 10,000 pounds altogether. gether.

gether.

New uses are being constantly found for aluminium. One of the most important in its application is its application to the casting of steel. It is remlarly used now in all the steel work, being added at the rate of 4-6 ounces per ton to the steel just as it is poured into the ingot mould, the result being an ingot which is perfectly solid and compact throughout its mass. The metal is also beginning to find important application as a substitute for copper as a conductor for large currents of electricity.—From address of the president of the Society of Chemical Industry 1839-1900.