Electro-plating a Canadian Railway Operation

Photographs showing electro-plating operations at the Angus Shops, Montreal. No. 1 shows the tanks in which small articles are hung for plating, and No. 5 the lacquering process. The text below explains the other photographs fully.

Passengers on the Trans-Canada and other Canadian trains have often admired the tableware with which the dining cars are equipped, but comparatively few of the travelling public appreciate the extent to which electro-plating enters into every day use on a Railway. As a matter of fact, practically all metal hardware parts of passenger equipment interiors are plated, many of the engine parts, including the copper reflector of the head-light are plated, and various platings are used on a thousand and one articles which enter daily into the life of a railroader.

The traveller notices the silver plate perhaps more than any other, but many metals are used by the railroad companies. Gold, for instance, is used by the Canadian Pacific for plating pepper caster tops and similar articles, copper is used on lighting and other metal car fixtures, zinc on refrigerator hardware, nickel on kitchen utensils, tin on trainmen's lanterns, mercury on telegraph elements and aluminum or lead on miscellaneous articles.

At its Angus Shops, Montreal, the Canadian Pacific Railway Company has quite an extensive plant where the most of its electro-plating is carried on. The method used by this Company is a simple one but none the less effective.

The articles to be plated are first chemically cleaned, after which they are usually hung from a metal bar into a long vat where they are immersed in a chemical solution which varies with the metal to be deposited. The electric current, which is of low voltage, is connected, the positive pole to the metal plate or plates, and the negative to the bar from which the articles to be plated are suspended. As the electric current flows from the plating metal to the suspended articles, the metal is carried through the solution and deposited in the form of a thin coating over the entire surface of the required article.

This process is well illustrated in No. 2, which shows two electric headlight reflectors in the process of receiving silver plating. In this case the plate of silver is suspended in the centre of the reflector, which is filled with cyanide of potassium solution, and the electric current flows from the plate to the reflector which is, itself, the negative pole.

Illustration No. 3 shows the next step in the treatment of the headlight reflector, which, by the way, gives the highest concentration of light known. This is hand burnishing, the operator burnishing two reflectors in a working day. For articles which can be readily polished by a rotating buffing wheel, this is accomplished in the manner shown in No. 4.

Upon completion of the polishing operation, articles to be so treated are placed in a metal container and, by means of a small compressed air gun, sprayed with suitable lacquer. If it is desired to oxidise the plated article in order to make it harmonize with woodwork or other material, as is often the case with copper platings, it is exposed to heat or vapor, or immersed in some solution prior to the application of the finishing coat of lacquer.

The Canadian Pacific Railway Company was the first large corporation in Canada to instal its own electro-plating plant, but during the last few years this method of protecting metal from oxidation has developed into quite an industry and one which employs a large number of Canadian workmen.

THE SLAUGHTER OF THE INNOCENTS

(Dr. J. G. Shearer.)

Canada sacrifices 30,000 little babes under one year of age every year. Somebody said about the close of the war that the trenches in France and Flanders were a safer place for Canadian life than the cradles of Canada! What is far more serious, this is absolutely true. Canada lost 10,000 of her fine young men each year of the great war. She loses 30,000 of her little babes every year alike in peace and war.

Who slaughters the innocents? Sometimes it is the parents through ignorance. Sometimes doctors or nurses or midwives through blundering. More often it is the fault of all of us in our respective communities. We were ignorant or we were indifferent, and we allowed those in authority to slay with impunity these little ones in scores or hundreds or thousands through permitting unsanitary conditions, or by supplying impure water or impure milk to the public and therefore to the babes. Supposing your city or community is guilty of allowing impure milk or water to be supplied to its people and one hundred or one thousand babes perish through a consequent epidemic, can you say as the preachers did of old over little graves, "The Lord gave, the Lord has taken away, blessed be the name of the Lord"? Assuredly not. We can say "The Lord gave"; we cannot say "The Lord has taken away." We shall have to say, "Cursed be the name of the city or community."

Out of every thousand babes born in Canada, over one hundred—or more than one in ten—die before they reach their first birthday. In New Zealand only forty in a thousand die during the first brief year of life. Canada can have and ought to have as low an infant mortality rate as New Zealand. Toronto has in the past ten years reduced its infant mortality rate from 130 to 65, Montreal from 250 to 155, London, Calgary and other western cities have cut their infant mortality rate in two. Why ought this not be true of every city or rural community in all Canada? It is possible. It is our duty. It will not result by chance. Nothing but active, earnest, co-operative endeavor on the part of everybody will bring it about. Jesus said, "It is not the will of your father in heaven that one of these little ones should perish." He also said of all those who cause actively or passively one such little child to stumble, "It were better for him that a great millstone were hanged about his neck and he were drowned in the depths of the sea." He also said, "See that ye despise not one of these little ones, for their angels do always behold the face of my father in Heaven," and "He that receiveth one such little child in My name receiveth Me." And yet again He said, "Inasmuch as ye did it not to one of the least of these, ye did it not to Me; therefore, depart from Me, ye accursed." These are terrible words. They are the words of the meek and lowly Jesus. Let us take them to heart.

HANG BLUEBEARD'S SEVEN

Paramount Director Overcomes Difficulty in Making of "Bluebeard's Eighth Wife."

Hanging the seven wives of Bluebeard for scenes in "Bluebeard's Eighth Wife" proved to be a costly operation for the Paramount West Coast studio.

Conceded to be one of the most remarkable scenes in the picture is that when Gloria Swanson, the star, dreams the fable that has lived for ages, of Bluebeard, who took his wives to a dark chamber, where he hanged them, one by one.

Seven of the most beautiful girls in Hollywood are seen as the seven wives in the modernized version of the ancient fable, which was adapted to the screen by Sada Cowan from the play by Alfred Savoir and which comes to the Veteran Star Theatre Friday and Saturday nights of this week.

When it was necessary to make the scenes of the seven wives hanging by their necks, Director Sam Wood became thoughtful. Hanging seven girls is a ticklish affair, for a slip might mean serious injury to one of them.

Not desiring to risk the lives of the girls, Mr. Wood engaged Miliba K. Lloyd, celebrated English sculptress, who made a wax model of each. These models were used in the hanging scenes, but were so like the originals that the difference could not be distinguished and—since it was a vision Miss Swanson was having—they did as well as the originals would have done.

LOOK THEM OVER

Get the habit of looikng over our Small Classified Ads. on page 7. There may be money in it. Small Ads. too late for classification will be found on page 5. If you have anything to sell a Small Ad. may bring you a buyer. If you want to buy anything, let the public know about it in The Chronicle. An outlay of a few cents may save you a lot of trouble and make you a lot of dollars. tf

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Satisfaction Guaranteed

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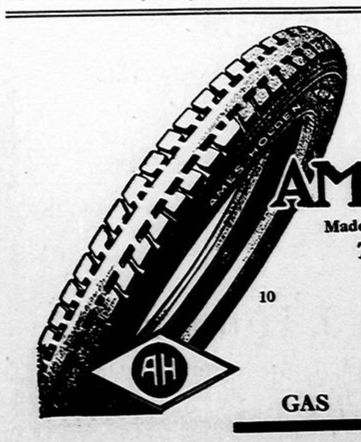

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Made by Ames Holden Tire & Rubber Co. Limited, Kitchener, Ont.

Test them with any other tires under any condition and

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SMITH BROS.

Durham's Leading Tire Shop

GAS - ACCESSORIES - OIL

"ANTIS" FOUR TO A BED

Hostess Claims They Were So Narrow She Could Pack 'Em In.

There's a good story going the rounds of the General Assembly at Owen Sound. A local woman, 'tis said, offered to billet two Commissioners. "Is that all?" enquired Rev. Mr. Pilkey.

"Yes, that's all," replied the hostess, "unless you send Anti-Unionists—I could take four of them."

"How's that?" asked her pastor, "What's the difference?"

"Why those antis are so narrow, I could put four of them in a bed," was the explanation.

Read the Classified Ads. on Page 7. It will pay you. tf

There are a few old fashioned girls left and you find them sitting against the wall at a dance.

ZAM-BUK

is the best remedy known for sunburn, heat rashes, eczema, sore feet, stings and blisters. A skin food!

All Druggists and Stores.—50c.

Specials for Saturday

9 pair Women's Bamboo Suede Strap Slippers sizes 3-7. Regular $4.50 for **$3.50**

Infant's Choco. Strap Slipper, sizes 5-7½. Regular $1.75 and $2.00 for **$1.35**

Infant's Pat. and Kid Strap Slipper, sizes 2-7½. Regular $1.50 for **90c**

Women's Black and Biege Silk Hose at **75c.**

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Two Nights Only

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This Moving Picture shows how paint is manufactured. Each step in the careful preparing of

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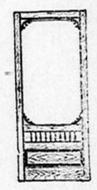

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Eight Styles to choose from

One of our specials is an 8-strand fence at **50c.**

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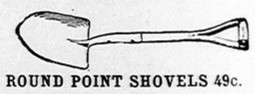

ROUND POINT SHOVELS 49c.

A. S. Hunter & Co.

Hardware and Seed Merchants - Durham

Schutz's Pump & Tile Co.

TILE ALWAYS ON HAND

Sizes 8, 10, 12, 16, 18, 24 ins.

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Agents for Renfrew Cream Separators

PUMPS & PUMP REPAIRING Promptly Attended to and all work Guaranted.

OPPOSITE HIGH SCHOOL

Phone 52

Steady Savings

McComb's

The Home of GOOD GOODS at LOW PRICES

Quality Goods

Special Sale of White Shoes This Week

Ladies' Medium covered heel, 1-strap, pair $3.19

Ladies' Baby Louis Heel, covered, 1-strap $3.19

Misses' white sandal, pat. trim. $2.19

Child's white sandal, pat. trim. $1.89

Ladies' white buck, sandal style $4.33

Get a pair of our Men's soft, light, strong work shoes at . . $3.49

Boys' Elk School Shoes at . $2.69

300 Yards Men's Shirting, good and heavy. On Sale Friday and Saturday, yd. 23c

Ladies' Black Hose, good quality, per pair ..... 25c.

Boys' Scout Shirts, neatly made with 2 pockets $1.44

Choice Prunes, 3 lbs for.. 25c

Choice Peaches, 2-lbs for 35c

A 5-string Broom with polished handle. Reg. $1. for 69c

Choice Red Salmon, flat tin 15c

Flaked Codfish, large tin 33c

Get a pound of our Orange Pekoe Tea, regular 85c. for 64c. Money back if not perfectly satisfied.

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J. L. SMITH, M. B., M. C. P. S. O.
Office and residence, corner of Countess and Lambton Streets, opposite old Post Office. Office hours: 9 to 11 a.m., 1.30 to 4 p.m., 7 to 9 p.m. (Sundays and Thursday afternoons excepted).

DR. BURT.
Late Assistant Royal London Opthalmic Hospital, England, and to Golden Square Throat and Nose Hospital. Specialist: Eye, Ear, Throat and Nose. Office: 13 Frost Street, Owen Sound.

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DR. W. C. PICKERING, DENTIST
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J. F. GRANT, D. D. S., L. D. S.
Honor Graduate University of Toronto, Graduate Royal College Dental Surgeons of Ontario. Dentistry in all its branches. Office, over D. C. Town's Jewellery Store.

Legal Directory.

MIDDLEBRO', SPEREMAN & MIDDLEBRO'
Barristers, Solicitors, Etc.
Successors to A. B. Currey.
Mr. C. C. Middlebro' is permanently located at Durham Office.

LUCAS & HENRY
Barristers, Solicitors, etc. A member of the firm will be in Durham on Tuesday of each week. Appointments may be made with the Clerk in the office.

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DAN. McLEAN
Licensed Auctioneer for County of Grey. Satisfaction guaranteed. Reasonable terms. Dates of sales made at The Chronicle Office or with himself.

ALEX. MacDONALD
Licensed Auctioneer for Co. of Grey.
Moderate terms. Arrangements for sales, as to dates, etc., may be made at The Chronicle Office, Durham. Terms on application. Address R. R. 1, Durham. 2 14 6mpd

FARMS FOR SALE

LOT 7, CON. 21, EGREMONT, containing 100 acres; 85 acres under cultivation, balance hardwood bush; convenient to school; on the premises are a frame barn 42x65 ft. with stone foundation; concrete stables; also hay barn 30x50 with stone basement; hog pen 20x40; twelve-room brick house, furnace heated, also frame woodshed; drilled well close to house, with windmill; concrete water tanks; 30 acres seeded to hay; 10 acres to sweet clover; this farm is well fenced and in a good state of cultivation. For information apply to Watson's Dairy, R.R. 4, Durham, Ontario. 10 25 23 tf

NORTH PART LOTS 7 AND 8, CON. 22, Egremont, containing 66 acres; 50 acres cleared, balance hardwood bush; in good state of cultivation; frame barn 44x50, stone basement, concrete stables; drilled well and cement tank at barn. Also Lots 6 and 7, Con. 4, S.D.R., Glenelg, containing 110 acres; 100 acres cleared and in good state of cultivation; on the premises are a brick house containing seven rooms, with good frame woodshed attached; drilled well at door; never failing springs on this farm, making a choice stock farm. This property will be sold right to quick purchaser. For particulars apply at Watson's Dairy, R.R. 4, Durham, Ont. 10 25 23 tf

COMING EVENTS

DOMINION DAY CELEBRATION AT Owen Sound. Carnival, Fireworks, Band Concerts, Baseball, Field Sports, Grandstand Performances, Acrobatic Feats, Dancing, Etc., Etc., July 1. Remember the date. M 15, 22 :J ew

THE DURHAM CLUB OF TORONTO are holding a basket picnic at High Park, Bloor street entrance, on Friday, June 20, 1924, afternoon and evening. All members and friends cordially invited.

COURT DURHAM NO. 446 C. O. F. will hold their annual church service on the evening of June 15. All brethren asked to attend.—William Bourne, C. R. 1

THE DISTRICT ANNUAL MEETING of the Women's Institutes of South Grey will be held in the Public Library, Durham, on Tuesday, June 17, at 10 a.m. and 1.45 p.m. A good program is being prepared. It is hoped that all the branches will be represented, especially as the County Convention is being held in this district shortly and plans will be made for that meeting. Durham ladies will please provide for the meeting on Tuesday.—M. McIlraith, Secy. 1