# HOW A CHROMO IS MADE.

### An Interesting Process with Which Few People Are Familiar.

We see tens of thousands of chromos, which are given away by every enterprising business man, yet I venture the assertion that very few know how they are produced. To properly produce a chromo the lithographer must be en rapport with the artist. He must analyze the picture, fully realize the combinations of colors and the spirit of the work. Having determined just how many basic colors enter into the picture, the artist commences his work by preparing a lithographic stone for each separate color. The artist commences his work by making a delicate and elaborate ink tracing of the picture; not only its general outlines, but the minute and intricate touches and shades of color of which it is composed. The tracing paper is chemically prepared, so that the lines upon it can be readily transferred to stone. A press is employed to transfer the impressions on the paper to the stone, considerable pressure being used. Thousands of impressions can then be taken from the stone by simply running an ink roller over it.

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The tracing thus transferred forms what is known as the key stone. Suppose there are twenty colors in the chromo. This number of impressions is taken from the key stone and each carefully dusted with red chalk. A dira offset of the entire tracing is then pressed on each one of these stones.

The drawing then begins, and often occupies many months. Each stone is to be printed in a separate color, and therefore must contain not only all that is necessary of that color of the picture, to the minutest detail, but all of the compound colors, made by printing one or more over others. A variety of gradations of color from its full strength to the faintest tinting can be produced on each stone, just as in using an ordinary pencil or crayon on drawing paper. These various colors are, of course, worked up in black by the artist, and it is the printer who applies the colors. The lines on each separate stone are etched with the wash of nitric acid and gum arabic, and are ready for the presses.

The printer must be as skillful as the artist in applying his colors, and must fully realize the blending and effect of each color. As fast as each color is printed it is submitted to the artist, who has thus a progressive proof of the work.

It has been probably noticed that lines cross each other on the margin of a chromo, These are the registering marks; and enable the printer to place the sheet in the same relative position every time a new stone is used and a new color applied. These lines are drawn in the original tracing and appear on each stone. When the first color is printed very small holes are punctured in each sheet at the intersection of these lines, very fine holes are also drilled in corresponding positions on each of the subsequent stones, and the holes in the paper are to correspond precisely with the holes in the stone, and thus as each additional color is put on a perfect register is secured and each color falls just where it belongs.

The next process is to make the chromo have a rough surface like an oil painting. A stone is now prepared which has a rough surface, sin...... to canvas. The chromo is then laid upon it and passed through a press with heavy pressure. When it comes forth it is an exact imitation of the painting. It is then varnished, and thus you have the chromo ready for the market.

The world is yet practically dependent on one quarry in Bavaria for its lithographic stone. Stones have been found in France, England, Canada and the United States, but none possess the qualities of the best German stones. A bed of lithographic stone has been found in Sequatchie valley, not far from Chattanooga, and the investigations so far indicat - that it will yield stone of a very fine quality. If it should prove so, it will be literally a gold mine. The finer quality of

# ELECTRICITY IS THE LIFE

When properly applied and thoroughly dividual in the haman system: but this, when artificially applied, must be done under the direction and able guidance of those who are by practice experienced in its use and applicability to the various dis-cases incident to nature, and with a care-ful provision as to the constitutional conful provision as to the constitutional condition of the patient. Hence the wonderfal success Dr. Darrin has over disease with the use of electricity and medicine. as the following almost miraculous cures will show. If they were not people well known in this community it would be hard to believe such cures possible. George Smith, Astoria, deafness cured.

Rev. J E. Coenour, Portland, Or., skin disease, cured.

Miss Maggie Sy hoest, La Grande, Or., ross eye cured. Isaac Thompson, La Center, Wash., deaf-

ness, cured in five minutes. W. T. Binkley, Centralia, Wash., sciatic rheumatism, restored.

J. T. George, Gleneden, Wash., chronic rheumatism, five years, cured. Mrs. Mary A. Johnson, McM nnville, Or., deafness many years, restored. C. F. Mayhew, 183 D street, Portland, rheumatism in its worst form, cured.

Henry Van Helms, Sandy, Or., cancer of the nose and catarrh, cured.

Mrs. C. Sandstone, corner Water and urry sta. Couth Portland, deafness, cured. Mrs. J. Ellis, 325 Clay street, Portland, Or ., deafness and diseases peculiar to her sex, cured.

#### Drs. Darrin's New Place of Business.

Drs. Darrin can be con-ulted fre- at the Washington building, corner of Washington and Fourth streets, Portland, Rooms 16 17, 22 and 23, third floor. Ask the elevator boy for room 18. Office hours, from 10 to 4 o'c'ork daily; evenings, 7 to 8; Sundays, 10 to 12. All curable chronic diseases, loss of manhood, blood taints, syphilis, gleet, gonorrhoea stricture, sperm atorrhos, seminal weakness, or loss of desire of sexual power, in man or woman, catarrh and deatness, are confidentially and succ ssfully treated. Cures of private diseases guaranteed and never published in the papers. Most cases can receive home treatment after a visit to the doctor's office. Inquiries answered and cir-culars sent free. (Parties writing will please mention paper.)

Every man calleth that which pleaseth, and is delightful to himself, good, and that evil which displeaseth him.



(From Medical Journal).

"The four greatest medical centres of the world are London, Paris, Berlin and Vienna. These cities have immense hospitals teeming with suffering humanity. Crowds of students throng the wards studying under the Professors in charge. The most renowned physicians of the world teach a: d practice here, and the institutions are storehouses of medical knowledge and experience. With a view of making this experience available to the public the Hospital Remedy Co. at great expense secured the prescriptions of the hospitals, prepared the specifics, and although it would cost from \$25 to \$100 to secure the attention of their distinguished originators, yet in this way these valuable medicines are sold at the price of the quack patent medicines that flood the market and absurdly claim to cure every ill from a single bottle. The want always feit for a reliable class of domestic remedies is now filled with perfect satisfaction. The hospital Remedies make no un-reasonable claims. The specific for Catarrh cures that and nothing else; so with the specific for Bron-chitis, Consumption and Lung Troubles; Rheuma-tism is cured by No. 3, while troubles of Digestian, Stomach, Liver and Kidneys have their own cure. To these is added a specific for Fever and Ague, one for female weakness—a general tonic and blood-maker that makes blood and gives form and fullness, and an incomparable remedy for Nervous Debility." These remedies are all sold on an absolute guarantee to do what is claimed for them. A circular describing this new method of treating disease is sent free on application by Hospiral Ras-son Compary, Toronto, Canada, Sole Proprietors. price of the quack patent medicines that flood the

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### The Grave [Sets Tired Yawning.

Seemingly, for certain wretched invalids who toddle feebly along, though always looking as if they were going to die, but omitting to do it. They dry up, wither, dwindle away finally, but in the mean time new r having robust health, know nothing of the physical enjoymeut, the rest of that existence to which they elling with such remarkable tenacity. They are always to be found trying to mend by tinkering at them-selves with some trashy remedy, tonic or "pick me up" to give a fillip to digestion, or "help the liver." If such misguided folks would re-sort and athere to Hostetter's Stomach Bitters it would be well with them. This superb in-vigorant supplies the staminia that the foeble require, by permanently reinforcing direction and assimilation. If overcomes nervousness, inces, constipation, the unsatisfy ad doing a They dry up, wither, dwindle away finally, but

Genius seems to be the faculty of doing a thing excellently well that nobody supposed could be done at all. .....

It is on part of religion to pray to God for material accumulations, as man can obtain them for and by himself.

#### Don't Miss a Good Thing.

You want an elegant collection of artis tic novelties, which can be procured by anyone You will be astonished at the

variety, beauty and oddity. To get these buy a b x of the genuine Dr. C. McLane's Celebrated Liver Pills, price 25 cents, and mail us the outside wrapper with your address plainly written and 4 cents in stamps. We will then mail you the above list with an elegant package of oleographic and chromati.

Address Fleming Bros., Pittsburg Pa.

The snakes a man sees when he is wrestling rith a severe attack of delirium tremens are ot "water snakes." with

#### Children Starving to Death

Children Starving to Death On account of their inability to digest food, will find a most marvelous food and remedy in Scott's Remulsion of Pure Cod Liver Olt with Hypophosphites. Very palatable and easily digested. Dr. S. W. CORES, of Waco Texas, says: "I have used your emulsion in in-fantile wasting with good results. It not only restores wasted tissues, but gives strongth and increases the appetite. I am gled to use such a reliable art cle."

The pashuns are like the wick ov a lighted they don't die out until they are burnt out. - -

Tha man or woman who is p ofitably employed is generally happy. If you are not happy it may be because you have not found your proper work. We earnestly urge all such persons to write to B. F. Johnson & Co., 1009 Main strict, Richmond, Va., and they can show you a work in which you can be happily and profitably employed.

He who laughs last may laugh best, but he is in danger of being accused of being very slow to see the joke.

For Thront Disenses and Coughs use "Brown's Branchial Troches." Price 25 cts. Sold only in boxes.

Those who assume to correct all the so called errors of their friends will soon have so small a circle of friends that the task will be easy.

## SURE CURE FOR PILES.

Sure cure for blind, bleeding and itching Piles One box has cured the worst cases of ten years standing. No one need suffer ten minutes after using Kirk's German Pile Ointment. It absorbs umors, allays the itching, acts as a poulice, gives relief. Dr. Kirk's German Pile Ointment is prepared only for Piles and itching of the private parts, and nothing else. Every box is warranted. Sold by Druggists and sent by mail on receipt of price, \$1.00 per box. J. J. Mack & Co., Whole-sale Agents, San Francisco.

Man's highest happiness will not be reached till he is doing all he can for man.

#### A Sure Cure for Drunkenness.

Dr Livingston's antidote for the liquor habit is doing more to lift up the fallen than all other means combined. It will cure the worst cases in from three to ten days, without effecting diet or business. The antidote is never sold in drug stores. Address: Livingston's Chemical Company, rooms 10, 11 and 12, 229 First street, stlead, Oracon

### A MOTHRE'S LOVE SAVES HER TEN YEAR OLD CHILD.

My little girl, ten years of age, had Bright's disease. Her ankles, feet and eyes were terribly swolen. Four of our best physicians attended her, but her life was despaired of. A mother's love surmount all difficulties, and I determined to try Dr. David Kenndy's Favorite Remedy, made at Rondont, N. Y. Bright's di-ase! How happy I am that I determined upon to is course -for one by one the well known symptoms of the disease left her. Words fail to express my gratitude, and I cannot too earcestly recom-mend the Favorite Remedy. Her recovery was entirely due to the Favorite remined, which was abandoned by the physicians-Mrs. Laura A. Kempton, West Rutland, Vermont. Dr. KENNEDY S FAVORITE REMENT, made at

DR. KENNEDY'S FAVORITE RENEDY, made at londout, N. Y. \$1:6 for \$5. Send for book, how to cure Kidney, Liver and Blood disorders.

We have no desire for a future that is not laden with great things and developments now unthought of by man.

The Old. Old Story.

A little cough; a teeling ill; A headache oft; a daily chill A headache oft; a daily chill; A slower walk; a quickwend breath; A frequent taik of coming death. No strength to rise from day to day : From loving eves he fades away. Now liftsho more the weary head, The straggle's o'er, the man is doad. Such is the fatal progress of consumption. How often is repeated the old, old story. Yet not half so often as it was before the knowledge came to mankind that there was a discovery in medical science by which the dread disease could be arrosted in its carly stages and the pa-tient restored to headth. This wonderful rem-edy is Dr. Pierce's tolden Medical Discovery.

Thousands of cures follow the use of Dr. Sage's



H. T. HUDSON.

Guns. - Ammunition - and - Sporting - Goods. 93 First Street, Port'and, Or. Send for Circular



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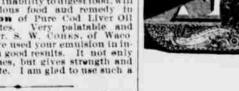
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SEED ANNUAL

D. M. FERRY & CO. DETROIT, MICH.







U. M. C. Breech-Loading Shot Gun Has all modern improvements, \$20,00.

stone is today worth thirteen cents per pound. and is very scarce -- Nashville (Tenn.) Times.

### Sparing Their Strength.

"Look at these men," exclaimed Harry Delmar, as he pointed to some trackmen at "It takes six of them to carry that work iron rail, and they move like snails."

"They are sparing their strength," remarked the father.

"Well, I should say so," declared Harry. "Four of them could carry that rail with ease.

"Perhaps they could," replied his father. "They are sparing their strength, and they are wise."

Harry looked at his father, a faint expression of surprise on his face.

"I notice that the foreman does not reprove them," continued his father. "He is satisfied that they are doing an honest day's work. If they worked as you seem to think they ought to work, it is likely they would not be here to-morrow, or not on the next day, at least. They would break down. They must husband their strength so that they can work day after day without abatement. There is speed in method, though it may seem tedious. A quick fire soon burns itself out. The tortoise beat the hare in the race. A rocket makes a big fuss, but comes down a stick. A volcano creates a great uproar, but it remains still a long while afterward. Tremendous efforts are soon spent. The 'pitching in' process does not last long. It is wise for us, my son, to spare our strength, whether we labor with our hands or brains. It is the secret of long sustained effort. The energy in reserve is often the energy that wins and wears."

"I see now, papa, that I spoke too hastily," Harry said. "The men are not shirking their work. Yes, they are wise."-Harper's Young People.

#### An Astonished Setter.

I do not youch for the truth of the tale, but a man, whose reputation for veracity is at least reasonably good, declares that he saw on the street in Boston, the other day, an electric wire accident which was certainly singular. His attention was attracted by the barking of a red Irish setter to an English sparrow, which was perched upon an electric light wire high above the beast's head. The animal had evidently been amusing himself in the fruitless sport of chasing the bird, and when it had taken refuge on high had endeavored to get some consolation out of velping The day was windy, and the wire lustily. swayed to and fro, the sparrow apparently enjoying its swing, until in a fatal moment the tail of the bird came in contact with another wire near by. Then, in the twinkling of an eye, the unlucky sparrow came tumbling down stone dead at the feet of the noisy dog, who was so astonished at this sudden turn of affairs that he did not offer to pick the creature up, but simply stopped barking and stood staring at his prey in astonishment.-Boston Letter in Providence Journal,

#### Life a Dream.

Our waking life is but a connected dream. The self is an unknown which gives birth to an infinite number of unknowns by a fatality of its nature. Science is summed up in the consciousness that nothing exists but consciousness. In other words, the intelligent issues from the unintelligible in order to return to it, or rather the ego explains itself by the hypothesis of the non-ego, while in reality it is but a dream, dreaming itself. - Penri Frederic Amiel.

WOMEN AS COLLECTORS.

### New Avenue of Employment Opened to the Weaker Sex.

The avenues of employment for womon are constantly increasing. Already she has proved herself a good clerk, a zood book-keeper and a good typewriter, and the latest is a female collector. At least a dozen houses in Kansas City are employing women in this capacity, and their number seems to be constantly inmeasing.

A woman may be a book-keeper or a ypewriter and yet be the most feminine reature imaginable, despite her business relations, but the female dunner would seem to be another kind of business woman, and she brings forward very promptly the question of how much distinction must be made between a woman and a man in the same business. One thing is certain, one can not kick a

lady collector out of the office. The female collectors are for the most

part young women, and, according to their employers, they are as persistent and as successful in their business as men. Their mode of operation, however, is somewhat peculiar, and they do not seem to go about the collection of a bill the same way as a man. A reporter happened in an office yesterday where fifteen or twenty young men were working. While he was talking with the manager a well-dressed young woman walked in and inquired for one of the young men. He was pointed out to her, and while the whole office watched her she walked over to his desk and began a Conversation with him in a tone so low that no one could hear. After talking for a few moments she turned to go, and, raising her voice, said:

"If you don't come in and settle I'll be around again on Saturday."

When she was gone the young man came in for an unmerciful guying, and it is safe to say he made a desperate effort to pay the bill before Saturday. She was the collector for a jewelry firm. A merchant who had adopted the new

scheme was asked about it, and said: "I find that my lady collector is persistent, faithful and trustworthy, and has great success in making some very bad collections, and I don't see why a lady should not be permitted to ask for the payment of a bill if she can do almost every thing else about an office."-Kansas City Star.

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There are intelligent people, in their right minds, apparently, who still believe in the Keely motor. Some of them declare they have seen it work, and that it really does what Keely claims, but how they cannot tell. A gentleman, who agrees with Professor Hyland Kirk that the human body is a storage battery for electricity, suggests that possibly the force may be electricity and may come from Keely himself, he being presumably a powerful battery, unknown even to himself, with electricity enough in him to run a threshing machine.

rtlaud, Oregon.

God's greatest gift to man is his thought power, and to weaken it or interfere with its regular advancement is an insulting offense to the bestower of the gift.

All that we can say as to the merits of Dobins' Electric Soap, pales into nothing-ness before the story it will tell you *itself*, of its own *perfect* quality, if you will give it one trial. Don't take imitation. There are but a of them it one trial. Dor are lots of them

The most dangerous charactors in the world are those who live in the suburbs of virtuethey are rotton ice.

A"Chicago druggist retailed over 100,000 'Tansill's Punch" 5c. Cigarsin four months.

The antagonism between capital and labor may be very great, but it dosen't compare in intensity to that between capital and capital.

TRY GERMEA for breakfast.

Most peofle are polite, not so much from any particular goodness of heart, as from a vanity to be called polite.



The Chief Reason for the great success of Hond's Sarsanarilla is found in the fact that Morit Wins. It is the best blood purifier and actually accompliance all that is claimed for L. repared only by C. I. Hood & Co., Lowell. Mass.



Uncle Remus on Tobacco.

Uncle Remus on Tobacco. You can't fool dis chile wid your trashto backy. Ismoke Skal, and don't you forget it. Some smokers think that anything that makes smoke is good enough to go into a pipe. They will find by a little experience that there is a yast difference in Smoking Tobaccos. Just try "Skal of NORTH CAROLINA." and you will see the difference between it and the imitations.



CAPTAIN S. GREENWOOD, Master of the Steamship Kanawha.

Mailer of the Steamship Kanawha. About a year ago he observed a strained change in his feedings. He felt tired fa-stead of vigorous; nervous instead of strong. His appetite became poor and his sleep broken. He tried to overcome these endings, but they would not go. He then noticed pains and irritation in the water often thick and with a seum on top or a briek dust sediment at the bottom. All has always been considered incurable, and his descent to sure symptoms of that fear-ful disease, Catarrh of the Stadder, which has always been considered incurable, and ha terrible conditions. But he fis the picture of kealth and vigor to-day, and he owes it entirely to that wounderful medicine, hunt's Remedy, Cast, Greenwood says; "I am so certain of the great value of Hunt's Remedy, that I alway carry a sup ply on shipboard for the uses of my med, and I prescribe it whenever they are alling, After curing me as it did, and restoring my wite, (whom the best physicians of New york said was dying of camor,) to perfect health. I swear by it." "This Great Remedy accounted y cures all kidney, Liver and Urinary Diseases."

For Sale by all Dealers. C. N. CRITTENTON, General Agent, 115 Fulton St., N. Y.

and for parighted to the Hund's Remody Co., Prod-



# Cured by the "Favorite Prescription."

A standard remedy for the peculiar ills incident to that critical period in a girl's life when she is just entering upon her "teens," is found in Dr. Pierce's Favorite Prescription. Young ladies' boardingschools have sent their pupils home rosy-cheeked, romping lasses, like the three beautiful maidens in the above illustration, when they have resorted to the use of "Favorite Prescription" for building up and regulating the systems of those delicate, pale, sickly girls, just approaching puberty, who need a generous, supporting tonic and a quieting, strengthening nervine-free from alcohol and injurious drugs, Whether in boarding-schools or homes, it is guaranteed to correct all those delicate derangements and weaknesses incident to females. WORLD'S DISPENSARY MEDICAL ASSOCIATION, Manufacturers, 663 Main Street, Buffalo, N. Y.



