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Drafts.

ALL KINDS OF JOB PRINTING DONE AT SHORT NOTICE. LEAVE YOUR ORDER WIT THE DISPATCH."

RUBBER IS A CONDUCTOR.

Electrical Discovery That Upsets An Old Theory.

The Washington Post contains the following with reference to a new scientific discovery made in thac city:

It has been discovered by William P.Smith superintendent of the electrotyping department of the bureau of government printing, that hard or vulcanized rupber is a conductor of electricity, and not a non-conductor, as had been heretofore believed. He has utilized his discovery by inventing a process of producing a pattern and coating it by depositing upon the surface thereof metallic nickel for the reproduction of half-tones, wood cuts, engravings or sound records.

Scientific men who have carefully inspected Mr. Smith's process have declared that it will prove to be of very great service to the electrotyping business, because of the economic principles of the process, which saves the very great waste of wax under the system in vogue, and results in obtaining a much better reproduction of half-tone and wood cuts. Mr. Smith said to the Post yesterday in

reply to a question: "In many of the processes now in vogue for the reproduction in wax of fine engravings or sound records it has been found that there is a loss from the sharpness of the original by molding the same in wax and depositing a shell of metal, say copper, by a I overcome this defect, and am enabled to deposit nickel on the non-conducting substance and obtain an exact fac-simile of the design or subject matter with all the fineness and sharpness of lines, dots and impressions that are found in the original; at the same time the nickel forms a hard matrixei, from which copies may be readily obtained with

great nicety. "In carrying out my invention I take a sheet of suitable material, for instance, hard rubber or vulcanite, and place it in a press, to which steam or hot water is admitted through a pipe for the purpose of rendering hard rubber is in a heated condition, I take other form, and press it face downward upon ney Pills Always Cure-" the rubber, whereby the rubber readily takes the impress of the former. The machine is then chilled by cutting off the flow of steam or hot water and discharging what remains in ticipates human experience, sometimes simpthe press through a pipe and opening another ly confirms and ratifies it. Is there any real pipe, and admitting cold water to the press, difficulty in understanding and accepting the this admission of cold water occurring while teaching of history in this particular case? the impression is still on the mold of hard Does it not stand to reason that it is easier to rubber, in order that any contraction of the put up prices than it is to put up wages? hard rubber while chilling may take place

while the impression is still on. "After the hard rubber has fully cooled, it is removed from the press and placed on a metal case coated with wax or paraffin, a strip of this wax being run around the hard rubber mold to cause it to be temporarily by scraping off portions of the wax to expose the metal backing of the case. When this is done, I make a pasty compound of black lead, or graphite, and alcohol, and I coat the wax mold with the same, using for this purpose a fine brush, by means of which the paste is evenly distributed over the face of the said case and mold, the alcohol soon evaporating.

"The brushing of the black lead upon the surface of the hard rubber mold and wax case, and the subsequent removal of any remaining particles of the lead, or the polishing of the face in a black lead machine, will result in the face of the hard rubber mold and wax case being completely metallized, so that they will serve to take a deposit of metal as

"The rubber mold and wax case are then washed with a solution, composed of one ounce of phosphorus to one quart of pure alcohol, which solution is then washed off with water. When this has been done they are suspended in a vat containing the well known nickel solution, by means of one or more hooks on one edge of the case, engaging a rod dition that the employer cannot have recourse or other means, constituting the negative pole or battery, the connection with this pole being through the metallic backing of the case. When the case with the hard rubber mold adhering to it is suspended in the vat, the current of electricity is turned on, and the nickel anode, which is located in the vat, opposite the metallized face of the hard rubber mold, is dissolved, and the metallic nickel is deposited in a thin film upon the whole of such surface and of the wax case, the deposit commencing first at the points where the electrical connection is made, namely, where the wax has been removed to expose the metal blacking of the case, and then gradually creeping over the entire metallized face of the hard rubber mold, the current returning through the metal backing of the

case and the suspending hooks.
"When a sufficient amount, or shell of nickel has been deposited upon the hard rubber mold, the mold is removed from the nickel vat and placed in a copper vat, and the shell is then completed with copper in the shell is then completed with copper in the usual manner, producing a shell of nickel with a copper backing, to give it stiffness. When the shell has been removed it will be found that all the fine lines, dots, and other found that all the fine lines, dots, and other works or impressions will be found exactly arith all the sharpthe same time the nickel is much harder and more durable than copper and many other metals which have been used for deposit upon

other substances.' Mr. Smith is a firm believer in his discovery, and of its ultimate adoption by all elec-trotype foundries. For the gramophone and phonograph he declares it cannot be excelled and that when used the sounds reproduced will have the clear metallic sound that is now lacking.

The only permanent cure for chronic catarrh is to thoroughly expel the poison from the system by the faithful and persistent use of Ayer's Sarsaparilla. This wonderful remedy proves successful when all other treatment has failed to relieve the sufferer.

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As the first to be laid on our table for the year 1897, we welcome the reappearance of the Dodd's Kidney Pills calander, published by The Dodds Melicine Company, Limited,

Prepossessing, beyond anything of its class hitherto published in America, though its purpose is at once obvious it has been made exceedingly pleasing by the fortunate choice of a design for the cover, which has been charmingly worked out by the artist in red and blue lithograph, the classic subject being

-Atlas supporting the world. It seems that these clever and persistent advertisers, not content with decorating the grassy hill-slopes and rugged mountain sides J. A. EDWARDS, - - Proprietor. with their mammoth letterings, seek also adroitly to seize upon imagination and assist it to account for the superhuman strength of current of electricity produced by a dynamo the heroic Atlas; suggesting the secret of his or other source of electricity. By my process power by representing him as being himself supported and relying upon a box of Dodd's Kidney Pills.

On the back of cover, in a few pithy words those previously convinced of the urgent need of kidney treatment are warned against sub- D. W. McCORMICK, - Proprietor. stitutes, imitations and counterfeits of the genuine Dodd's Kidney Pills.

Thus much as to the cover; of the book itself, we have to say; -The arguments all seem unanswerable, the proofs ample and undeniable, the whold unique, admirable and useful, not only for the coming year, but for always.

We are assured by the publishers that sufficient are being printed to go around, the hard rubber soft and pliable. While the that in due time every family in Canada will get one to their present and lifelong advantthe engraving, wood cut, sound record, or age. And as usual, adding: "Dodd's Kid-

Wages and Prices.

Common sense or reason sometimes an-Prices need only to be marked up, and with a currency decreasing in value it is absolutely necessary that the producers make a strenuous effort to put up prices in order to save themselves from loss. In doing this they meet, of course, with the resistance of the concumer; but this resistance is unorganized, spasmodic, held to the wax case. Then, by preference, I make one or more, preferably four, connections just outside of the hard rubber mold ing which leads people to continue their ordinary consumption even when prices have gone up. They must, at any rate, continue their consumption of the necessaries of life, although luxuries may me curtailed, furniture and houses be made to wear longer, and varcase and the outer face of the hard rubber lous forms of personal service be dispensed

When we come to putting up wages the reverse condition is met. The efforts of the laborers are opposed by the employers, who object to increasing their labor bill. Organized labor may succeed by striking or by threatening to strike, but generally only after considerable loss and hardship. Unorganized labor succeeds only after a long time. In the first place, it requires some time for it to realize the change that had taken place to its thing that can raise the wages of ordinary labor is the competition among employers when the increased prices are giving them abnormal profits and they are anxious to increase production as much as possible. This will happen only if they are sure that prices will continue high and on condition that there is no other supply of labor, and also on condition that the to labor-saving machinery.—"Would Free Coinage Benefit Wage-earners?" II. The Negative View. by Prof. Richard Mayo Smith in November Review of Reviews.

A Chance to Make Money.

I have made \$1,640 clear money in 87 days and attended to my household duties besides, and I think this is doing splendid for a woman inexperienced in business. Anyone can sell what everyone wants to buy, and every family wants a Dish Washer. I don't canvass at all; people come or send for the washer, and every washer that goes out sells two or three more, as they do the work to perfection. You can wash and dry the dishes in two minutes. I am going to devote my whole time to this business now and I am sure I can clear \$5,000 a year. My sister and brother have started in the business and are doing splendid. You can get complete instructions and hundreds of testimonials by addressing the Iron City Dish Washer Co., Station A, Pittsburg, Pa., and if you don't make lots of money it's your own fault.

Mrs. W. H.

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By Order of Board, J. M. JACQUES,

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