

German Invents Cell to Convert Light to Power

Photo-electric Device Also Expected to Aid Talking Pictures and Television

Berlin.—Using of energy of sunlight for running small machinery is a possibility, forecast by the invention of a photo-electric cell capable of converting light directly into power in useful amounts. The new cell is the invention of Dr. B. Lange, of the Kaiser Wilhelm Institute of Silicate Investigation. Many schemes have been advanced for using sunlight energy for power purposes, but they have all been heat appliances, while the new method is an electrical one.

The device consists of a thin layer of copper oxide placed between two outer layers of copper and may also prove to be a revolutionary improvement in television and talking moving pictures as well as in other phases of scientific application.

The usual photo-electric cells, in which a coating of potassium or caesium is placed on the inner surface of a partially or totally evacuated bulb, can be operated only with auxiliary sources of electric currents. When light falls on these types of cells, the coatings emit electrons which may be collected with a charged electrode, which is also placed inside.

However, with the new Lange cell the light falls on one of the thin laminations of copper and electrons are driven off it and pass through the copper oxide layer, which is of extreme thinness, only a few layers of molecules deep. When these electrons reach the second copper layer they are converted into an electric current. This current follows the light variations without appreciable lag, due to the short distance they have to travel through the thin layers.

In recent tests with the cell, rapidly flickering lights were caused to play on it and the resultant currents were fed into a loud speaker to produce audible "tone" that followed the rate of flickering perfectly.

Dr. Lange estimates that his cell is more than ten times as efficient as the earlier types, and states that its other advantages are that it does not show fatigue; that it can be opened indefinitely without loss of efficiency, and that it is much more sensitive to the infra-red or invisible rays at the longer end of the light spectrum.

Canada the Best?

Ottawa.—Of all countries in the world, Canada is the best place to live in at the present time, declared Lord Willingdon, Governor-General, recently. His Excellency referred to the approaching end of his tenure as Governor-General and paid a tribute to the people of Canada for the great kindness and spirit of generous friendship in which he said he and Lady Willingdon had been always received.

Lord Willingdon said he had been an agriculturist in the old days. "On occasions like this I sometimes think to myself, 'You would have been a much happier man if you had not undertaken all the other jobs you have had in the past 25 years.'" No country had a brighter future than Canada, His Excellency said, and in a very few years the Dominion would go forward to increased prosperity. In his recent visits he had been struck by the evidences of more satisfactory farming conditions than he had witnessed since coming to Canada.

A Good Brand of Lubricant

"Come smiling." Only two words, a dozen letters, but what a volume they speak. They were "one executive's brief description of how a messenger boy responded to a call. It was the significant thing to the person who sent for him that he "came smiling." He also may have come running and out of breath but the fact that his face bore a smile made the big impression.

Smiles are not a commodity that may be monopolized by any one individual or group of individuals. They are the inherent property of every man, woman and child. Their source is inexhaustible. No matter how much one may smile and smile, there are plenty of smiles left for to-morrow, next week and next year. They are limited in output only by the individual who uses them. They don't wear out—in fact they keep other things from wearing out, for they are among the best lubricants. And there are enough in the world to oil the path and lighten the burdens for everybody.

And so whatever and wherever may be the activity, and whoever the person may be, he widens his field of helpfulness if it can be said of him that he "came smiling." Whether in greeting the other members of the family at the breakfast table, or his neighbor awaiting the street car at the corner, or his fellow workers at shop, store or office, if he "came smiling" he helped himself and helped them on the road to an easier and better day of accomplishment.

Boy Scout Camps

The camp property now owned by the Boy Scouts of America totals 50,000 acres, with a valuation of more than \$1,000,000.

Red Rose Tea

Effective Immediately

15c per pound reduction on Red Label Tea.

5c per pound reduction on Other Grades.

You can now buy from your grocer at these reduced prices the Red Rose Tea he has in stock. We refund to the grocer the drop in the price. We bear the loss.

T. H. ESTABROOKS CO. Limited
TORONTO, ONTARIO

Midnight Mission Mends Boots Of Indigent Overnight Guests

Unique in efficiency, paramount in service, hospitable in welcome, complete in its activities, is the "Midnight Mission" of Los Angeles. This enterprise is founded on the highest ideals of co-operative helpfulness and is completely equipped in its every detail, to care for the wanderers who come to its door.

About 1500 men are fed each day under this roof, and lodging is provided for many. Each overnight guest has a regular routine to go through after his entrance into the mission. First he is fed, then divested of his clothing, next refreshed by a warm bath, and so by these steps made ready for the clean and comfortable bed awaiting him.

During the night (hence the name "Midnight Mission"), an experienced man is at work on the guests' shoes, repairing them in whatever manner

is necessary. In a large and commodious laundry a large corps of workers are washing and ironing the clothing, which is then mended and repaired, even new collar bands being added to the shirts needing them.

If the recipient of this loving care has any work in view for next day, after his bountiful breakfast he is started off to his work, provided with lunch and cartfare.

Supplies to aid in this good work come in great quantities and from many sources. A leading hotel sends its beautifully monogrammed dishes which have become nicked from use; materials sent the food they have left after the day's business is over and they have closed their doors for the night; a canning factory sends the canned goods which have lost the labels; bakeries send their second-day supplies of baked goods; a cracker manufacturer sends broken cookies and crackers. Hundreds of families in the city send their discarded clothing.

This worth-while charity, is made possible because almost all of Los Angeles shares in its maintenance and gives fully, freely and continuously. All this working together make a complete and harmonious whole, wide in the scope of its activities and blessing many of the homeless, destitute and friendless.

The hoof of a horse is really a hard shell filled with flesh and blood. The section of the hoof into which the shoe nail is driven is only about one-eighth to three-eighths of an inch thick.

Learn Watchmaking
Light Interesting Work
Good Watchmakers (either sex) can earn good money
For information, write the
CENTRAL TECHNICAL SCHOOL
Toronto

Nurses Wanted

The Toronto Hospital for Incurables, in affiliation with Bellevue and Allard Hospitals, New York City, offers a Three Year's Course of Training to Young Women, having the required education, and desirous of becoming nurses. This Hospital has adopted the eight-hour system. The pupils receive uniforms of the School, a monthly allowance and travelling expenses to and from New York. For further particulars write or apply to the Superintendent.



Just a tasteless dose of Phillips' Milk of Magnesia in water. That is an alkali, effective, yet harmless. It has been the standard antacid for 50 years among physicians everywhere. One spoonful will neutralize at once many times its volume in acid. It is the right way, the quick, pleasant and efficient way to kill the excess acid. The stomach becomes sweet, the pain

Sour Stomach

departs. You are happy again in five minutes. Don't depend on crude methods. Employ the best way yet evolved in all the years of searching. That is Phillips' Milk of Magnesia. Be sure to get the genuine Phillips' Milk of Magnesia prescribed by physicians for 50 years in correcting excess acids. Each bottle contains full directions—any drugstore.

Sassafras

The sassafras upon the rock. The bushes in the seam. The moss where edges interlock. Confront us, sunk in dream.

The fugitive white butterfly. Is as the ancient crow; Alike they wander in from sky. Alike, impassive, go.

But silver-fish that make a splash, And ripples sliding under, Have power to startle like a crash Of February thunder.

Oblivious to the ticking clock And us who go and come, The colored light rows up the rock, The ant pursues its crumb.

THE REASON WHY

Thin, Weak Children Need Baby's Own Tablets.

Malnutrition, or inability to derive nourishment from food, is a common trouble with little children and is entirely due to stomach and bowel weakness. Another cause of loss of flesh and sleep is worms.

To correct stomach and bowel troubles and thus banish constipation and indigestion; break up colds and simple fevers; expel worms and allay the pain which accompanies the cutting of teeth is what Baby's Own Tablets were designed for. They never fail to be of aid and can be given with safety to the youngest babe.

Baby's Own Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

UNFINISHED
Jones had started the day very badly. Getting out of bed that morning, he had stubbed his best corn on the bedpost.

Arriving down to breakfast he found that his post consisted of an income-tax form and a number of tradesmen's bills.

During the meal he grumbled at the weakness of the porridge and the age of the eggs, and complained that the toast was like a cluder.

Mrs. Jones, however, smiled serenely and remained silent. At last Jones was ready to depart for the office. Snatching up his umbrella, he dashed for the door without giving his wife the usual morning kiss.

Barely had he left the front garden than his wife opened the door and called to him.

"Well, what is it?" he snapped irritably from outside the gate.

"You've forgotten something, dear," she coolly replied.

"Have I?" he asked, mystified.

"What is it?"

"Darling," answered Mrs. Jones, putting on one of her best smiles, "you forgot to slam the door!"

Punishment-Wise Or Otherwise

Leona Bailey
Joan was having a delightful time entertaining her cousins, Elizabeth and Ben, and two little neighbors, Louise and Jimmy.

The five children had played games, eaten ice-cream and plain cake, and now were resting in the cool shade of the plum trees.

"Oh, dear, look at the spots on my dress," said Louise.

"Will your mother spank you?" asked Elizabeth.

"No-o-o-o. I don't think so."

"Course she won't spank you unless she gets mad with you 'cause she will have to wash the dress," remarked Jimmy.

"My daddy doesn't whip me unless he catches me doing something bad," volunteered Ben, "so I sure try to keep him from finding out what I do."

"My father spanked me yesterday 'cause I took some of his tobacco for Roy and Peter. I don't think he should be so mean. He had a lot of tobacco and I know he couldn't miss what I took," was Jimmy's contribution.

"Oh, but he punished you so you'd remember not to take what didn't belong to you," explained Joan.

"Aw, no, he didn't! He just 'cause he wanted the tobacco all for himself. When I get as big as he is I'll take all I want, and I bet he won't whip me."

"Mother got mad and spanked me because I didn't know she wanted me to watch the baby and he pulled a knife off of the cabinet and cut his finger," thoughtfully said Louise.

"Well," said Elizabeth, "Mother sure did spank me last week for losing her riding whip, and I had never touched it. She found it in the parlor rack where she had put it herself."

"Mother hardly ever spanks me," said the little hostess, "and then it is just to make me remember not to do the bad things again. She hates to do it, too."

"Oh, gee, my mother doesn't hate to," interrupted Jimmy. "She just gets mad and takes her spite out on me over just anything."

"We both cry when my mother has to spank me. We don't either of us like it. But it sure makes me remember not to do things she tells me are wrong," continued Joan.

All were silent for a few minutes thinking the thoughts of little people about the unfairness of adults, perhaps.

"Let's play tag some more!" suddenly exclaimed Elizabeth. "You are it, Jimmy," and away they went—childish philosophy forgotten for the moment.

Of the five, one, only, had any mentally wholesome idea of the value of punishment.—Issued by the National Kindergarten Association, 3 West 40th Street, New York City. These articles are appearing weekly in our columns.

What Is Highbrow? Too Much Education?

"A highbrow is one who has been educated above his intelligence," was the answer given by Ivor Brown, dramatic critic, to a question by Sir Ernest Wild, K.C., the Recorder, during a mock trial held recently at the London School of Economics.

The "trial" was of James Agate, dramatic critic of the British Broadcasting Company, who was charged with "falsely pretending to be a highbrow." He was found "not guilty."

The Humming-Bird

A flash of harmless lightning, A mist of rainbow dyes, The burnished sunbeams brightening, From flower to flower he flies; While wakes the nodding blossom, But just too late to see What lip hath touched her bosom And drained her nectary.

Use Minard's for Burns.

THE ANAEMIC GIRL

Who Has Lost Her Charm and Beauty

"She seems to be losing her looks." This remark is often heard about girls who were once noted for their sparkling eyes, their rosy cheeks and their vitality. The cause is not far to seek—they have become anaemic; that accounts for the pallor and the loss of charm. The anaemic girl, if she neglects her health, may be a sufferer all her life.

Take heed, you pale, anaemic girls. Plenty of fresh air, nourishing food and rest will help you, but what you need most is good blood. Those wretched headaches; that fickle appetite and those terrible heart palpitations can only be banished if the blood is rich, red and pure.

Good blood—the kind that brings good health, is created by Dr. Williams' Pink Pills. The whole mission of these Pills is to build rich, red, health-giving blood. The Pills are sold by all dealers in medicine or by mail at 50 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

"A Scottish Backwoodsman Speaks of the Woodland Kirk"

By D. P. Graham, aged 12
Canna ye hear the blueb's singin'?
Canna ye hear the Birds' Choir singin'?
Canna ye hear the Jack-in-the-Pulpit Preach his sermon to many a culprit?

The bluebells are ringin'
To wake Wake-Robin;
The mourning dove's in ecstasies,
Her heart's jist throbbin'
Here ye have the Woodland Kirk Underneath the shady birk.
Ye canna do this?
Hoot, Mon!! come on and live!

Women in Alberta
According to an act passed by the Alberta Legislature, women are now eligible to hold any civil or judicial post.

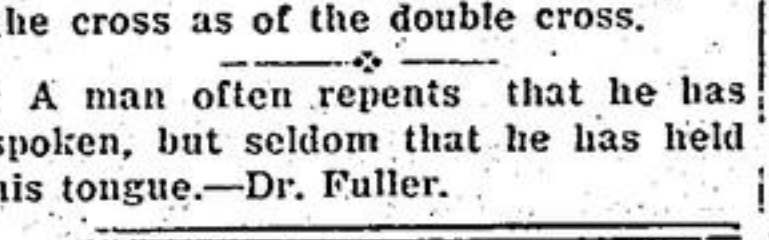
Irrigation in India
About 26,000,000 acres of land in India have been brought into productivity through state irrigation works.

Judging from his frequent changes of allegiance, "the Christian general" in China isn't so much a soldier of the cross as of the double cross.

A man often repeats that he has spoken, but seldom that he has held his tongue.—Dr. Fuller.

First-Aid

For all pains and aches, foot troubles, cuts and bruises, or general massaging purposes. Minard's simply can't be beaten.



DO YOU SUFFER WITH HEADACHE?

So easy to get quick relief and prevent an attack in the future. Avoid bromides and dope. They relieve temporarily but affect the heart and are very dangerous. They are depressing and only give temporary relief, the cause of the headache still remains within.

The sane and harmless way. First correct the cause, sweeten the sour and acid stomach, relieve the intestines of the decayed and poisonous food matter, gently stimulate the liver, start the bile flowing and the bowels pass off the waste matter which causes your headache. Try Carter's Little Liver Pills. Druggists 25c red pkgs.



Do Not Hesitate to Try It

"Your Vegetable Compound is a good medicine. Anyone who is in poor health should not hesitate to try it. When I was taking the Vegetable Compound I tried the sample Liver Pills I found in the package. I have taken them every night since and I can feel myself improving. I am so thankful for the good they do me that I have told several women about it."

Mrs. G. W. Postiff, 263 Huron St., Stratford, Ontario.

Lydia E. Pinkham's Vegetable Compound

Lydia E. Pinkham Med. Co., Lynn, Mass., U.S.A.

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USED BICYCLES, 510 UP. VARSITY Cycle Works, 413 Spadina Avenue, Toronto.

AI BABY CHICKS—WE HATCHED 215,000 last year in four varieties. Write for free catalogue. A. E. Switzer, Granton, Ont.

SINGLE COMB WHITE LEGHORN and Barred Plymouth Rock Baby Chicks, wonderful winter layers. We have been hatching for 27 years. Delaware Poultry Farm, Stratford, Ont. 10.

TRENT MAY AND JUNE Chicks, always popular. Rocks, Wyandottes, Leghorns. Free folder. "Pin Money" describes why their breeding "tells in the nest." Order early and save. Trent Electric Hatchery, Trenton, Ont.

GUILD'S A1 CHICKS
ROCKS, MAY, 15c; JUNE, 17c; LEGHORN, MAY, 17c; JUNE, 16c. 100% live delivery guaranteed. Express prepaid on 200 or more chicks. 5 week old pullets \$1.40 each up. Catalogue free. L. B. Guild and Sons, Box B, Rockwood, Ontario.

FOR SALE
FIVE D.C. MOTORS
1/2, 1, 1 1/2, 4 and 8 Horsepower, all in good condition. Cheap for immediate sale. H. Watkins, 73 Adelaide Street West, Toronto.

NO MORE STOMACH TROUBLE
"No more stomach trouble. Can eat anything," writes Mrs. E. White. Thousands say indigestion, heartburn, gas vanish like magic with "Fruit-Lax." Constipation, sick headache, end overnight. Nerves, heart quiet, sound sleep all come. Rheumatism flies away. Complexion clears quick. Get "Fruit-Lax" from druggist today.

DADDY CAN NOW EAT ANYTHING

He dearly loved a rich tit-bit. The spirit was willing, but the flesh was weak. Whenever he ate anything rich, his boys used to say, "Poor dad, he will pay the penalty to-morrow." Read the sequel in his own words:

"Since taking the regular dose of Kruschen Salts it is quite different, and my boys enjoy themselves seeing me eat what I dare not touch before. My eldest son was the same, but since he has taken Kruschen Salts he can eat and enjoy whatever is put in front of him."

Modern artificial conditions, errors of diet, overwork, lack of exercise, and so on, are bound to have injurious effects in the long run, providing due precaution is not taken.

Kruschen Salts should be your safeguard. Besides cleansing the body of impurities gently, surely and painlessly, they possess a vital power of giving new life and vitality to the countless millions of cells of which every body is composed.

That is why physicians never hesitate to recommend Kruschen Salts.

"Skinny! I Gained 11 Lbs. in 8 Weeks and Boy Friend"

"After trying several tonics I tried Ironized Yeast. In 8 weeks I gained 11 lbs., new complexion, rounded limbs; best of all a boy friend."—S. M. Salino.

Men and women are amazed at gain of 5 to 15 lbs. in 3 weeks. Ugly hollows vanish. Bony limbs round out. Sallow, blemished skin gets clear and rosy like magic. Nervousness, indigestion, constipation disappear overnight. Sound sleep. New pep from very first day.

Two great tonics in one—special weight-building malt yeast and strengthening iron. Pleasant little tablets. Far stronger than unmedicated yeast. Results in 1/2 time. No nasty taste, no gas.

Don't get round "skinny" ugly, unattractive. Get Ironized Yeast from druggist today. Feel great tomorrow. Money back from manufacturer if not delighted with results.

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The upsets of Children

All children are subject to little upsets. They come at unexpected times. They seem twice as serious in the dead of night. But there's one form of comfort on which a mother can always rely; good old Castoria. This pure vegetable preparation can't harm the tiniest infant. Yet mild as it is, it soothes a restless, fretful baby like nothing else. Its quick relief soon sees the youngster comfortable once more, back to sleep. Even an attack of

colic, or diarrhoea, yields to the soothing influence of Castoria.

Keep Castoria in mind, and keep a bottle in the house—always. Give a few drops to any child whose tongue is coated, or whose breath is bad. Continue with Castoria until the child is grown! Every drugstore has Castoria; the genuine has Chas. H. Fletcher's signature on the wrapper.

