### THE OMAHA DAILY BEE: THURSDAY, MAY 7, 1908

# Show is the Wonder of Admiring Thousands

Very Latest Development in Modern ing by this plan is much less than by still in the experimental stage; but it n. Experimental Science.

## TEGETATION BY ARC LIGHT that have been made the writers in the

#### Hadto-Culture is the Name that is Given to the New System of Supplanting the Rays of the Sun.

"Electrically repend strawberries." "Try our are-lamp lettuces;"""Insist on having lamp suspended outside and lighted by the electrically grown violets: do not be im- ordinary street system could illuminate one posed upon by the sun-raised flower." such may be some of the announcements the day the whole house was exposed to which may meet the eye of the system of daylight, but when night came one complant growing under electric light de- partment was flooded with electric light wribed by Messrs. S. L. Bastin and G. and the other remained in a state of dark-Clarke Nuttall, B.Sc., in the World's Work ness, \* \* \* After 11 o'clock at night both (London) for April, develops the commercial possibilities of which it gives promise. As long ago as 1980 the eminent English

scientist, Sir William Siemens, exhibited to a meeting of the Royal society some strawberries which had been brought to dinary way. Violets, dalajes and other terfection by the rays of an arc lamp, and flowers bloomed more profusely and coninter Prof. Lemstrom demonstrated that siderably earlier when stimulated for some not only the flowers, but the root also of Lours nightly by the electric light. plants could be powerfully stimulated by the electric current. Hithorto, however, investigations in this field have been mainly confined to the laboratory, and neither the market gardener nor the wealthy amateur plant grower has taken up the matter se-The method described in the TIOUSIN'. World's Work is that of Mr. B. W. Thwalls, a civil engineer of many years' experience, and it is heraided in the foly lowing glowing terms

#### Substitute for Sunlight.

a doubt that the beams from an electric are lamp form a reasonable substitute for sunlight and a very good one at that, Under this new system the productiveness of the plant is enormously increased, especially during the winter months. \* \* \* The production of a plant in November and December is increased four and eight and one-half times respectively. The significance of this cannot be gainsaid, for under this system the exceedingly and far outstripped their congrower is placed practically on the same temporaries in the normal class, while they footing as his envied competitor in Call- were poles apart from the plants that had fernia. Should these rosy expectations be been assigned to the blue light, which had realized in actual practice, the prospect made no appreciable growth. \* \* \* In opened is surely a most alluring one. The the green glass-house plants took up an luge importations of foreign material intermediate position; sometimes they were yould be almost unwarranted in a country larger, sometimes smaller, than the normal; which had an unlimited store of artificial mostly they were inferior either in stockisunshine at his command. The British grower would be placed in a strong position that he could view with the utmost composure the efforts of his rivals to get the best of him on the markets-in fact. omething like a millennium in the horticultural world would have been reached." them. It has also been found that the The chief characteristic of Mr. Thwaite's production of scent by a plant can be conproject is its extreme simplicity, while at siderably increased by colored rays of light. the same time it is far and away the most most powerful strawberry odor, far sur practical that has yet been advanced. 4t appears that the feeding, heating and light- passing that of the normal fruits, while the little crassula, which has naturally litling of the plants are all accomplished by means of a gas engine. A water jacket on the or no scent to boast of, has a de the engine provides the heat and the per- licious fragrance almost like that of

oct illumination of each part of every

SUN YIELDS TO ELECTRICITY plant is secured by the aid of an are lamp, the plants are gathered and placest ouse and which can be placed in any po-Radio-culture, as this system of plant sition. It is claimed that the cost of heatgrowing under colored glass is called,

he ordinary furnace and boller. Interesting Tests at Cornell.

in speaking of the numerous experime World's Work refer to the notable series ant still, as blue light is found to preserve onducted at the Cornell University Agriultural station

"Here a variety of market-garden plants, such as lettuce, endive, radiaties, beets, spinsch, cauliflower, were selected for op- ally blooming and keep them for longer or cration and placed in a cool glass house. This house was divided into two compart- Why not retarding, rather than forcing ments in such a way that a large electric

LIGHT compartment and not the other. During Five Experiments are in progress at the New

compartments were dark till daybreak. \* The best results were obtained with lettuce, and spinach was in a month 10 to 15 per cent better than that grown in the orthat their hospital tries every device which hours nightly by the electric light.

What Has Been Done in Paris. In Paris some experiments were conducted under very different conditions. A selection of plants, such as the water lily, sycamore, pea, strawberry, electric light of 500 candle power, focused gerantum. maize, etc., was kept in the covered market

ness or health.

Power to Change Nature.

It was also found possible to change the

the rays of the spectrum that illuminated

"In red light strawberry fruits have

banana. \* \* \* The scent remains

turned upon the seat of pain for fifteen or hall under suitable conditions as regards ventilation and moisture. The arc lamps twenty minutes at a time, and much care were then turned on and kept alight un- has to be taken to prevent the burning of ceasingly for six months. The results the flesh. The treatment is repeated two proved that continuous light tended not to or three times at intervals of three or stimulate, but to stunt the plants. One four hours, and in many cases the pain "It has been proved beyond a shadow of very curious condition was, however, in- is reduced or driven away for several duced-all the plants were intensely green. hours afterward.

So far the hospital physicians say they This question of color is dealt with by Mr. Clarke Nuttall in a separate paper in the cannot explain in what way the light acts. same number of the World's Work. They do not think it has any therapeutic All kinds of plants, such as oaks, maine, value aside from the relief from pain, but

continue the experiments.

geraniums, flax and strawberries, were they find it very useful for that. One of grown under red, green and blue glass and them said that he tried it upon himself for a raging toothache, and had found it in the ordinary transparent glass house. "The net results of all experiments was drove the pain away for several hours .that in the red light the plants flourished New York Times.

The

wher

New Cable in New York Harbor. A government cable was laid, replacing the damaged cable from the New York barge office to Castle William, last week by the cable ship Cyrus W. Field. It took the Field twenty-two minutes to run out the 3,400 feet of cable, and thirty-five minutes to haul the old damaged cable in. The

ready suggests the building of red-colore

glass-houses for forcing. The light itself

will supply the stimulus without additional

heating and manuring. And, more-import-

"Instead of attempting to force plants

into maturity out of due season, might i

not be possible to take them when matur-

shorter times unchanged by its means.

Hundred Candle Power

Not Do.

York Skin and Cancer hospital for the al-

eviation of pain by the use of intense

light. So far the physicians are unwilling

o express any definite opinions as to its

efficacy, and content themselves by saying

promises to be of assistance in curing or al-

leviating cancer. The results with the

'light cure," however, have been suffi-

ciently satisfactory to induce them to

The patient is subjected to what is known

as the lucidescent light. It is the ordinary

by parabolic reflectors on two spots. It is

Medicine

FOR

Will

PAIN

Does

the plants in a stationary condition.

CURE

What

Field is an odd looking craft, with a huge reel aft for the winding on of cables. patrols the coast from Maine to Fort Monroe, with the sole duty of looking out for color, shape, and size of leaves by varying the government cables. The craft belongs to what might be termed the army's navy -for the secretary of war has a mighty fleet under him

**Best Show Is** 

**Electrical Show** 

Your Lofty Sentiments Are Expressed Through

Your Home Furnishings

O----

Buy a beautiful Art Canopy for the dining room

Ask about this one-There's a special price on it

---

---It's a dandy, too, 6 lights-24-inch spread

# Exclusive Lamp Designs

Time does not fade the beauty of the truly artistic --- long association with an object which possesses this characteristic brings a fuller appreciation

of its perfection. And we love instinctively the article which shows the master touch--- that attribute in which lie individuality and charm.

In the great Eastern shops---factories which we represent exclusively --- artist workmen have fashioned into enhancing form their beautiful conceptions for the Evening Lamp. Every one is a realization in metal of an artistic life thought, and the story is told but once--- there are no duplicates.

The sentiment of the evening lamp---best illustrated in our display of these distinctive forms--will afford interest for those who value exclusiveness and individuality in selections for the home.

You'll find you have made a mistake if you fail to select your fixtures before building. Let us give you some of our ideas---fixtures is our business---all our time is devoted to this line---our advice is valuable and it's free.

We take this opportunity to inform the public our business has grown to such proportions that it can no longer be con-

ducted in our present quarters. We have therefore leased the west onethird of the new three-story building at 1507-09-11 Howard street. The Omaha Gas Co. will occupy the east two-thirds.

All our stock is offered at ridiculously low prices from now until date of moving, June 1st.

The low marks on our stock will surprise you and we will say to those who contemplate purchasing fixtures of any description that, though you are not quite ready to use them, you may avail yourself of this sale and articles thus purchased will be cared for until you need them. It will pay

### prospective purchasers to bear this in mind and act accordingly.

Eastern factories have consigned to us, for exhibition at the Electrical Show, a large number of the finest Domes, Canopies and Electric Lamps ever shown in the west.

We are authorized to dispose of these at specially low prices when the show is concluded. See them in Booth A at the Electric Show.







FTER THE BUSINESS man or manufacturer has acquainted himself with the usefulness and practicability of electricity in the home, thorough examination of our exhibit, it will pay him to let us figure on furnishing him electric power for business.

It is even more practical and useful here than in the home, And so much cheaper than other power.

Omaha Electric Light @ Power Company

THE VOTE ON THE Independent Franchise At South Omaha yesterday was: 1558 For **123 Against** 

This shows how the people feel and which company is getting the business.

Go to the Electrical show and see the Automatic switchboards work. You will then understand why everyone wants our secret service.

Independent **Telephone** Co. ELECTRIC AND ALL KINDS OF SIGNS FOR EVERY PURPOSE THE **OMAHA** GUNNING SYSTEM PROMOTERS \_\_OF\_\_\_ **OUT-DOOR** PUBLICITY 1409 HARNEY ST.