

Electric Aid for the Home at Your Service

Electric Color Music Adds to Theater Charm

Color Lighting Carried to High Degree of Perfection in Capitol Theater in New York.

Electric color music is a term that recently has been made. It is composed of electricity, of color and of music.

The development of this phase of theater lighting owes much to the genius of the manager of the Capitol theater, New York, one of the largest motion picture houses in the world.

Color lighting, through means of a large switchboard installed back stage, made Mr. Rothafel's moving picture place a place of enchantment and an interesting visiting spot for all the world. The rows of dimmers on the great switchboard place in the hands of a dozen electricians and artists absolute control of the units of blue, green and amber lights that line the vast ceilings, walls, alcoves and stage by hundreds of dozens. Shades and intensities of color, through the smooth handling of these dimmers, blend or absorb to suit the mood of the action on the stage, on the screen and in the music.

Works All Night.

Mr. Rothafel personally works out every detail of his lighting, particularly that of the overture, which, played by a celebrated orchestra of 70 musicians, thus becomes two moving works of art, combined. This indefatigable manager frequently works from 12 o'clock midnight after the last show, until 6 the next morning. He will not rest until color effects and music are properly blended to suit him.

The playing of Tchaikowsky's "1812" overture by the Capitol orchestra recently, is given as an example of the lighting of such music because it is probably the most widely-known of the Russian composer's music.

Three themes are easily recognizable in this overture; the first from the Russian hymn, "God Preserve Thy People," the second from the French Marseillaise and the third, the Russian national anthem.

Lighting Suits Theme.

At the slow and solemn introduction played by the viola and the cellos in harmony, the stage is illumined by soft pastel lights, blue predominating. Then comes the gradual approach of the French and the ominous sound of the drums beating in the distance. Here the first notes of the Marseillaise are played by the horns. At the first beat of the drums, a faint red light begins to pulsate on the stage, in the footlights, in the house lights and the lights of the proscenium arch.

As the martial notes grow louder and nearer, the red lights grow stronger; and when at last the apparent victory of the French is announced by the full sounds of the Marseillaise rising high and clear, everything is overwhelmed by a mighty blaze of red. Then the original themes merge again and the brilliant red subsides for a time, slowly pulsating. And when the Russian national anthem is introduced in the bass, growing up to the crashing finale with the bells of Moscow loudly ringing out their announcement of victory, the reds fade into a brilliant amber. The overture is closed with a great flood of gold sweeping from every direction.

Electric Drills Slice Thick Paving With Ease

Slicing the concrete streets of cities with electric drills is one of the conveniences of electricity has brought to street railway companies.

These drills are attached to great motors moved by energy that laughs at the thickest of stone, and are operated by men who, thus equipped, dig and expectorate concrete wedges of any desired width and depth in the solid street paving. Without destroying the work of street builders, street car rails can be laid in the wedges thus cut. One-way traffic, and frequently two-way, can be carried on during the transition without hindrance.

Ten years ago streets had to be torn up, bit by bit, to lay street car rails. Traffic had to stop on those streets. Hundreds of workmen tediously picked at the expensive surface of the street until they had wrecked it. Today it is different.



How Wilson Missed Talk by Wireless

Ex-President, Returning from France, Lost Opportunity to Hold First Long Distance Speech.

The "U. S. S. George Washington" was homeward bound, bearing the president of the United States after signing the Versailles treaty.

Unusual efforts had been made by the Navy department to bring the radio equipment of the "George Washington" to a point of perfection. A huge new plant had been built at New Brunswick, N. J., and apparatus capable of carrying the human voice over 1,500 miles had been installed on the president's ship.

Lieut. Walter S. Lemmon, U. S. N. R., now of the Malone-Lemmon Radio Laboratories, New York, was in charge of the radio work on ship-

Sparks

Keen interest in new radio among radio amateurs in Omaha as to who can catch the most distant sending stations. Unless one hears St. Louis, Kansas City, Schenectady or Atlanta, Ga., night, he's not in the upper crust of radio amateurs.

Last Thursday night a group of radio fans tuned in from a receiving set station WAAW in the Omaha Grain exchange and heard a musical comedy broadcast from St. Louis.

Further careful tuning and they heard this:

"This is Atlanta, Gawgah, talkin'—the Atlanta Gawgah Journal signin' off."

Some thrill!

For those amateurs interested in long distance receiving The Omaha Bee herewith prints the program of station WWJ for tonight, tomorrow and Tuesday:

WWJ—The Detroit News.

Eastern Standard Time (300 Meters).
SUNDAY, JULY 30.
2:00 p. m.—The Detroit News Orchestra.
2:05 p. m.—Herman W. Schenman's "Thy People," the second from the French Marseillaise and the third, the Russian national anthem.

WWJ—The Detroit News.

Eastern Standard Time (300 Meters).
MONDAY, JULY 31.
9:30 a. m.—"Tonight's Dinner," and a special talk by the woman's editor.

WWJ—The Detroit News.

Eastern Standard Time (300 Meters).
TUESDAY, AUGUST 1.
9:30 a. m.—"Tonight's Dinner," and a special talk by the woman's editor.

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Duck-Billed Platypus Is Received in Hawaii

Honolulu, T. H., July 29.—A duck-billed platypus, the first of its kind to be landed alive on American soil, has recently been imported from Australia and may become a part of the zoological collection now maintained by the city of Honolulu.

The duck-billed platypus is in appearance a cross between a duck and a beaver. It lays eggs, but suckles its young.

Previous attempts to establish the platypus of the equator have failed, making the proposition a risky one, particularly as the price asked for the bird-animal is \$5,000.

Fee Charged Visitors to Museums in France

Paris, July 29.—Enforcement of a new regulation requiring the payment of entrance fees to all museums and places of historic interest in France begins this month. The fee will be 50 centimes, or 1 franc, according to the importance of the national monument or collection.

Special rates will be made subscribers, students, wounded soldiers, members of large families and similar privileged classes.

Porch Important Feature of Home

Electricity Allows Entire Day's Tasks to Be performed on Porch.

The porch in summer has been termed the outdoor living room, but this designation does not begin to cover its functions.

The modern, electrically equipped porch not only serves as living room, but in many homes is used as a dining room, kitchen, sewing room, reception room and sleeping room. In fact, an entire day's tasks may be performed on the porch, and performed with more comfort and convenience than in any other part of the house.

In drawing plans for the modern porch, the architect should receive generous attention and space. As a matter of fact, it is oftentimes desirable to sacrifice the size of interior rooms in order that the porches may be sufficiently spacious.

The ideal house should have three porches—an upstairs or sleeping porch, a convenient back porch where breakfast may be served, and an extensive and spacious veranda where almost every household task may be performed.

To obtain 100 per cent efficiency from the veranda, at least four convenient outlets for electric service should be installed. These will permit the use of an electric fan, an electric grill, toaster, chafing dish, percolator, etc., an electric cleaner with its myriad uses, an electric sewing machine, iron heater or whatever appliance meets the moment's requirements.

Stone 6x3 feet is cut in 15 minutes by a stone cutting saw 100 1/2 inches in diameter and 3/4 of an inch thick.

Tasks an Electric Fan Will Do for You

- 1—Dry frosting on a cake.
- 2—Hasten the drying of varnish or paint.
- 3—Hurry along the dehydration of fruit or vegetables.
- 4—Dry quickly delicate garments suspended on a hanger, so as to prevent running of colors.
- 5—Remove dampness from clothes after ironing.
- 6—Drive stagnant air from a closet or closed room, thus compelling live air to enter.
- 7—Vitalize air by the process of stirring it up at times when windows cannot be opened.
- 8—Establish a draft in furnace when fire is slow.
- 9—Cause radiation of heat from register or steam coil in the winter.
- 10—Woo sleep for baby on hot days, or for baby's mother and father on hot nights.
- 11—Make the temperature of kitchens, laundries or other work rooms endurable to housekeepers.
- 12—Give to offices the coolness necessary to serene nerves and efficient work.

Dynamite Is Used to Destroy Monster Still

Greenville, S. C., July 29.—What is declared to be the largest and most complete distilling plant ever seized by raiding officers was captured near here by a group of federal prohibition officers.

The outfit was too large to be destroyed with axes, and two sticks of dynamite were set off under the apparatus, blowing it to bits.

The plan consisted of a large brick furnace base, over which was a steel riveted boiler having a capacity of approximately 400 gallons. Two copper condensing outfits were connected with the boiler, each having a capacity of 20 gallons. Five thousand gallons of rye beer was poured out by the officers.

New Apparatus Used to Detect Depth of Ocean

Hydrophone Takes Soundings by Measuring Time Required for Reflection of Sound from Sea Bed.

As soon as the navy's oceanographic ship Hannibal comes in from its present sounding expedition it will be equipped with the hydrophone recently perfected by the navy. Officials of the United States hydrographic office state that the new device will revolutionize their work of surveying the sea bottom by permitting the taking of soundings in a few minutes which under present methods require hours.

The depth of the ocean is obtained instantly by this device, which depends upon the time it takes for a sound to travel from a sound-creating oscillator located in the aft portion of the ship to the sea floor, and be reflected back to the receiver located in line with the transmitter, but in the forward part of the boat. The hydrophone receives only the reflected sound. The time determines the angle and the apparatus automatically computes the depth.

Highly Accurate.

The new device necessarily has a high degree of accuracy, as the velocity of sound in sea water is roughly

4,400 feet per second, a velocity too great to be measured accurately by stop-watch methods.

An error of one-fifth second results in a discrepancy of over 70 fathoms in the determining of depth.

Besides making more rapid, detailed and accurate hydrographic surveys of the ocean bottom, the new device would also be used in locating vessels at sea and supplement the radio compass. Powerful sound sources may be installed off capes and harbors. By sending radio signals and the underwater sound signals at the same instant the difference in the time of reception will give the distance the vessels are apart when the depth of the ocean is known.

Will Detect Icebergs.

The inventor, Dr. Harvey C. Hayes, physicist for the navy, believes that the new device will be able to detect the presence of icebergs by the sound reflected from the berg, and avert such disasters as befell the Titanic.

"In actual experiment it has been determined that the navigator, cruising at full speed through the fog and darkness, was certain of his position at all times and proceeded with complete confidence," said Dr. Hayes in describing one of the earlier trips with a less perfect apparatus than that which is now being used.

Radio Works Between France and New York

Paris, July 29.—Communication between America and France has been further facilitated by the opening to public use of the wireless station at Sainte-Assise, which sends directly to New York. It is said to be the most powerful wireless station yet constructed.

Safety Switch Stands Guard Over Motors

Almost human in their uncanny intelligence are the delicate devices which are developed, with the progress in mechanics for controlling machinery and "making it behave."

Most interesting among these is the safety switch that stands guard over electric motors.

Machinery, though its actions may be accountable to a hair's breadth of space and infinitesimal fraction of time under normal conditions, is still subject to many unforeseen variations of temperament when dust or grit gets in bearings, or a thread gets jammed in its rapid whirling wheels, or a bit or drill sticks or binds. Therefore there must be super-controls, sort of "power behind the throne," to stop machinery before it flies off at a tangent and injures work or workman.

The safety switch which should accompany electric motors giving energy to various tools is more than a super-control; it is almost a guardian angel. Its purpose is to automatically shut off current, at the same time throwing in resistance, the moment an operator's hand leaves a machine, thus the machine, or tool, is stopped in less than one revolution and cannot become unmanageable.

Concerts From Auto Truck.

Amherst, O., July 29.—Besides giving radio concerts at its store, the Amherst Furniture company has equipped its truck with radio-receiving apparatus and is giving radio concerts wherever the truck goes about the village.

Don't Waste a Hot Day Hoping for a Cool Evening



Phone for a Fan!

It may be cool tonight, and again, it may not. Who is going to cool your fevered brow if it isn't? Hot weather doesn't hurt anyone who takes reasonable measures to insure against its enervating effects. But just hoping for a cool night is hardly sensible. What you need, all you need, is a

Westinghouse Fan

that beautiful breeze-maker that produces comfort and coolness in a way that is healthful and inexpensive. And you are wise if you don't wait until the store is closed. Just take down the receiver, while this paper is still in your hand, and Phone for a Fan!

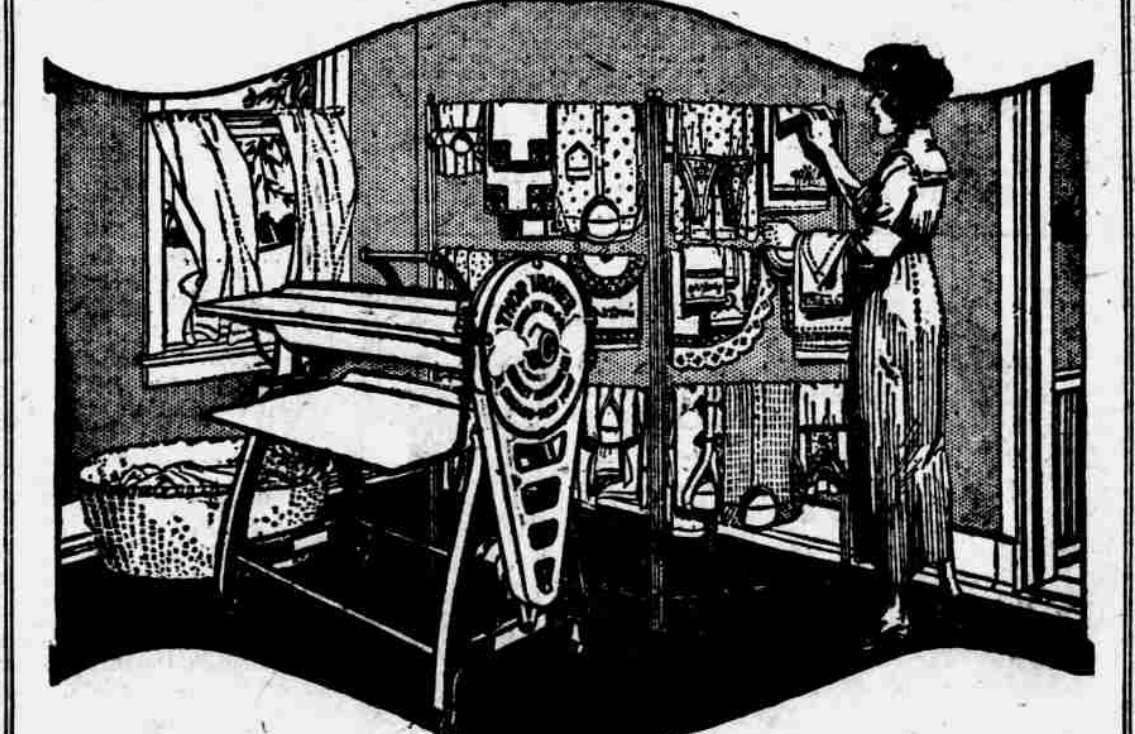
- The Following Dealers Carry a Complete Stock of Westinghouse Fans
- OMAHA
- Auburn Electric Co., 2428 Leavenworth St.; DO ugras 4407.
 - J. Burns Electric Co., 4532 S. 24th St.; MA rket 0890.
 - Thomas Durkin, 2228 Cuming St.; JA ckson 2519.
 - Kettell Electric Co., 4408 N. 24th St.; KE nwood 1424.
 - LeBron & Gray Electrical Co., 116 S. 18th St.; JA ckson 2019.
 - Le Bron Electrical Works, 318 S. 13 St.; JA ckson 2176.
 - Modern Electric Co., 5912 Military Ave.; WA lnut 6190.
 - Nebraska Power Co., 15th and Farnam Sts.; AT lantic 3100.
 - Nelson Electric Co., 406 S. 15th St.; AT lantic 7649.
 - Omaha Electric Works, 1214 Harney St.; JA ckson 1181.
 - Schneider Electric Works, 1108 Farnam St.; JA ckson 2455.
 - Wolfe Electric Co., 313 S. 17th St.; AT lantic 1414.
 - Orchard & Wilhelm Co., 414 S. 16th St.; AT lantic 3000.
 - Modern Electric Co., 2924 Leavenworth St.; HA rney 1255.
- COUNCIL BLUFFS
- Bradley Electric Co., 331 W. Broadway; Phone 393.
 - Citizens' Gas and Electric Co., 26 Pearl St.; Phone 4700.
 - Johnson Electric Works, 113 E. Broadway; Phone 373.
- OMAHA Distributors SIOUX CITY

Truly, a Banisher of Drudgery

Special!

For this week only, July 31st to August 5th

A very special offering of renewed—thoroughly overhauled—THOR IRONERS—guaranteed to be in first-class running order—while they last (the number is limited).



Number 44 Ironers

\$99.50

Also a limited number of the larger ironers—with 50-inch roll—at ONLY—

\$130

REMEMBER—this special offer on these true household servants is good ONLY during the week of JULY 31 to AUGUST 5.

BUY YOURS NOW!

Nebraska Power Co.

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Why the Standard Radio Equipment Company Should Be Your Jobber

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2. The STANDARD RADIO EQUIPMENT CO. wholesales only RADIO SUPPLIES and have an organization that knows how to help the DEALER.
3. The STANDARD RADIO EQUIPMENT CO. sells no supplies at retail, thereby assuring the dealer that his orders will be filled and inquiries referred to him.
4. The STANDARD RADIO EQUIPMENT CO. is the second oldest Radio Jobber in the Missouri river states, and carries the Largest Stock.
5. The STANDARD RADIO EQUIPMENT CO. dealers are satisfied, as our Prices, Service and Policies are Right.

Let Us Help You

Standard Radio Equipment Co.

FORT DODGE, IOWA Wholesale Only Radio 9-UL