

Have Your Home Equipped With Modern Electrical Appliances

NEW FIXTURES MAY BE MOVED ABOUT

Invention Overcomes Disadvantages of Permanent Points of Illumination.

Despite the fact that its existence has never occurred to 99 of 100 users of electricity, the present method of installing electric-lighting fixtures involves one serious disadvantage. The fixtures are fastened permanently, that is, to walls and ceilings. In the home, for example, interior decorations must often be planned around the illuminating units, when it would be much better to arrange the furnishings, and subsequently place the chandeliers and bracket lights, like so many old-fashioned kerosene lamps, wherever they may be most

fittingly installed. And this very flexibility has now been made possible by the invention of a new method of connecting wires and fixtures. Flush with the surface of walls and ceilings, first of all, there are placed "little" receptacles which resemble the ordinary push-plug sockets. Now, from the base of each bracket fixture project two curved arms, like the claws of a hammer.

To attach the fixture to any of the numerous wall receptacles, the claws are simply inserted into the slots, and the fixture is brought to horizontal. Large ornamental wall fixtures are attached in the same way, except that the claws project from a plug, and the fixture is suspended from this plug much in the same manner as a hat on a hook.

In the same fashion, the ceiling plugs serve the dual purpose of electrical-contact making and weight bearing. They differ from the wall plugs, however, in that each consists of two S-shaped, pivoted claws which, after they have been inserted and moved toward each other, serve as a toggle bolt to sustain the weight of the heavy chandelier.

HOW TO MAKE AN ELECTRIC TOASTER

Device Can Be Rigged Up at Home That Will Work Satisfactorily.

For a very small sum an electric toaster can be made at home. Secure a piece of asbestos six by ten inches and one-fourth inch in thickness. Twelve holes are punched in the asbestos, six at each end, to hold electrician's bolts, which, in turn, hold six strands of electrical heating wire stretched across the asbestos, held straight in the center by running them through six round-eyed screws. The two electrical wires are connected to the two end screws at one end of the asbestos on the under side. Five small metal strips are placed between the ten remaining screws on the under side of the asbestos to complete the contact of all wires above.

The essential part or heating element of the toaster is now complete. The remaining operations are mostly a matter of choice, except for the underneath finishing, where one must be careful that no metal touches the two wires where they are attached to the outside screws. A suitable stand may be made of sheet metal held one-half inch below the asbestos by hollow posts covering long screws approximately one and three-quarter inches in length. The top to hold the toast can be made of heatproof screening stretched across four straight metal pieces, or heatproof metal wire may be inserted into the two side metal supports through drilled holes.—Popular Science.

TELEPHONE EXPERT HONORED BY CHINA

Patrick T. Carey, of New York, Decorated for Services to Government.

Patrick T. Carey, who superintended the installation of the present telephone system in China, has been decorated by the Chinese government. Carey has been made a member of the fifth class of the Joy Ho, the Chinese order of merit, as a reward for his services. The medal signifying his membership in the order was presented to him recently by Tseng Yu Chun, minister of communications. Carey, who is well known in Ameri-

can transmission circles, has been acting as instructor of telephony at the government university in Peking since 1917. In addition, he is superintendent of installation of the China Electric Company, the Chinese subsidiary of the Western Electric Company of New York. In 1909 Carey installed the south and east exchanges in Peking. These were the first common battery installations ever introduced into China. In 1912 he made additions to the services in Peking and also erected exchanges at Tientsin and Tsinanfu. The equipment in all of these exchanges was exactly the same as that used in the latest American telephone systems.

MACHINE OPENS LETTERS.

For use in the large business office there is now made a letter-opening machine which, though small and easily carried from desk to desk as required, is credited with the remarkable capacity of 500 letters a minute.

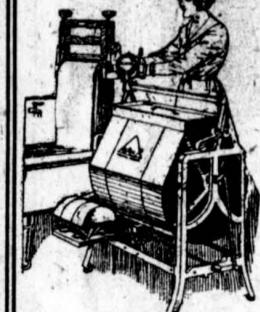
FOOT WARMER FOR OUTDOORS WORKERS

This electric foot warmer is designed for outdoor service and makes it possible, in winter weather, greatly to relieve outdoor workers obliged to remain in one spot for long periods of time from the discomfort of cold feet. Investigation as to how this

relief could be furnished by means of an electric heater resulted in the development of an electric foot warmer different from anything previously on the market. The amount of power consumed can be regulated to 200, 100 and 50 watts respectively, at 130 volts, for the different positions of the switch. Six feet of cord with a snap switch is supplied with each warmer. The rubber insulated cable enters the device through a bell-mouthed waterproof fitting mounted in the middle of one end. The resistance which constitutes the main element of the heater is of the slotted ribbon type distributed uniformly over the entire surface. The ribbons are assembled between two plates of built-up mica 0.025 inch thick, cemented together to form a unit.

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Sole Agents Pittsburgh Gas Water Heater.

NEW BATTERY CHARGER HAS MOTOR RECTIFIER

The use of a patented motor rectifier in place of the usual mercury-arc apparatus is the feature of a storage battery charger now on the market. The motor rectifier consists of a 1/4-horsepower motor of special type, with an extension shaft upon which are mounted three collector rings and two special commutators. These absorb the alternating current from a transformer, and convert it into a direct current to two separately controlled circuits. An unusually high efficiency is claimed for this mechanism because the current supplied is said to eliminate excessive "gassing" in the batteries, and so create a more rapid conversion of the active materials.



ADJUSTO-LITE, a lamp that you can attach anywhere—to bed, shaving mirror, table, desk or chair. Stands perfectly wherever an ordinary lamp is used. Throws the light exactly where you need it most. Prevents eye strain. Cuts lighting cost.

Gripping clamp is felt-faced and cannot scratch. Compact Durable. Solid brass. Guaranteed for five years—price, with bulb, \$5.75.

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Floor and table, desk, boudoir and reading lamps in great variety. Also, beautiful shades of the latest designs in silks, cretonnes, parchment and art glass. Come in—look around.

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—with DIM-A-LITE, a surprisingly inexpensive device that affords five changes of light—full, low, dim, nite-lite, out. Several types at \$1.40, \$1.50, \$1.75 and \$3.00—the latter complete for reading in bed.

Renew All Blackened and Burned-out Lamps

As the longer evenings approach, you and your family will spend more time indoors. Put your house in order by renewing all blackened and burned-out lamps with the MAZDA Lamps of Westinghouse make that we have in stock.

You will get really intelligent service if you buy ALL your electrical goods at our electrical store.

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A City in Darkness—
Twice during the past week the City of Alexandria has been in the coils of a dangerous gas famine. Lights were out and citizens were forced to revert to oil lamps and to wood fuel for lighting and cooking, due to the shortage of coal.
There's plenty of coal in the mines, but labor agitation and freight embargoes, due to congestion, keep the coal and gas-production situation in a critical state.
Users of Electricity Are Immune from Coal and Gas Famine Troubles.
If your house is wired for electricity you can depend implicitly upon bright, cheery lights at all times. You can prepare a meal for the whole family, right on the dining table, with the small, ornamental but efficient electric cooker, the toaster and the percolator. The electric range is so compact that it occupies but a foot or so of space, yet permits of three foods being prepared at once.
Lighting and cooking are only two details of electrical accomplishment—from heating the baby's milk in the wee small hours of the night to doing the family wash, the electrical way is the safe, sure, efficient labor saving way.
Call and talk over wiring as well as the advantage of electrical appliance with the demonstrators at any of the electrical shops listed in this announcement.

Washington's Leading Electrical Stores
—That Supply Every Electrical Need

- Capital Electric Co., Franklin 4582. 1829 14th St.
- Carroll Electric Co., Appliance Dept. Main 7320. 714 12th St.
- F. L. Clarke, West 2419. 1242 Wisconsin Ave.
- Edgar Morris Sales Co., Main 4626. 1305 G St. N. W.
- Howard P. Foley Co., Main 1130.1. 806 12th St.
- E. C. Gramm, Franklin 5016. 1408 Eye St.
- National Elec. Supply Co., Main 6800. 1330 N. Y. Ave.
- Joseph S. Repetti, Lincoln 235. 149 B St. S. E.
- J. E. Taylor & Co., Main 7103. 1324 Eye St.
- Zarin Bros., Main 4965. 717 12th St.
- Doubleday-Hill Elec. Co., Wholesale, Main 4681. 715 12th St.