# HOW SCIENCE HAS HELPED and safe not only against the dangers of wiring, but that of eaverdropping as well. KINKS FOR Heating Plants of Today.

Denveniences of Medern Home Besulting from Careful Research.

MEATED, COOLED, LIGHTED AND CLEANED

Buchinary Does it all Through Air, Gas and Electricity and the Drudgury is Gone from Housekeeping.

The drudgery of routine housework has ten or fifteen years through the assistance of the scientist and the mechanic. The machinery at the command of the modern housekeeper would be amazing were it less generally employed. So numerous are the

conveniences introduced into the house by the modern builder for the comfort of the family that the rising generation look upon them as a matter of course, and even the housekeeper whose girlhood knew no such luguries has come to count them necessities. And they are necessities to the modern scheme of living.

One by one these conveniences have been introduced until the modern "model" house is something remarkable to contemplate. In fact, it would be difficult to linagine how more could be done.

The modern apartment house probably affords better examples of luxurious equipment for housekeeping than even the most pretentious homes, although many homes are beginning to borrow this equipment, within is the convenience of the free dewhere it is practicable. Down in the cellar or the subcellar of many of these mod- every business and department that conern structures there are groups of ma- tributes to the comfort of the home and chinery that is never idle, furnishing power its occupants. The postman brings the and supplying these innovations in house- mail to the door not less than once and in keeping. In other houses, where the vibra- the majority of towns and cities, twice a tion might prove annoying at night, power- day, while in many sections of the cities ful storage batteries are provided to silently there are four to six deliveries a day. carry on the work while people sleep.

#### New Way of Sweeping.

Few now are unfamiliar with that throb- where people live in apartment houses, as bing, churning, noisy machine, as mysterious is the case in many larger cities, the as a circus wagon in its exterior and not mail and papers and packages are sent long since attracted a crowd of curious an automatic carrier. The laundryman apactators whanever it took up its position calls for the soiled clothes and returns In front of a building or house and ran its them again clean at the end of the week. lines of hose into the doors or windows. Packages, no matter how small or how The "housecleaning machine" it came to large are delivered by all dry goods stores, be called by small boys and others whose while the supply of milk, once one of the ourioalty impelled investigation. But when most exacting trials of the housewife, is the marvel was reported to the mother and delivered as frequently as desired, at the housewife, in nine cases out of ten that door, in carefully sealed bottles that have patient one cautioned her boy to keep away only to be emptied and rinsed and set from the thing, and perhaps against being out to be collected when the man comes over-credulous, and resumed her round of again. It is not even necessary for the sweeping and dusting quite resigned to the housewife to go to market to make her Inevitable Friday cleaning and those two purchases. The telephone serves to comweeks of discomfort to the entire familythe annual spring and fall housecleaning. The office building was the first to employ liver her purchases at her door, this substitute for the broom and duster and carpet beater, and it is an amazing fact that it had been successfully employed there for several season before there was any considerable demand for it in private houses. Today it is so generally used that the car is engaged weeks ahead, while the majority of the more pretentious of the modern homes are equipped with vacuum pleaning apparatus. Such a plant is as switch in the last year and is getting away much a part of the equipment of the new from the fancy gewgaws which have preoffice building and apartment houses as the dominated for the last few years and back heating plant or the illuminating system. to the old plan of simplicity of a colonial The building is piped as for water or gas nature. In the last few years giant strides and in each room there is a stop to which have been made in ornamental hardware a flexible hose may be attached, long until today the hardware to a house is enough to reach to the furthermost corner of the room. The vacuum is controlled by a of a home. spigot, and it is only necessary to pass the

or about the bric-a-brac and every particle a tendency to eliminate the large massive of dust is drawn up into the hose, carried doorplates and knobs and to substitute the nte the pipe and down to the cellar, where plain grip handle of a century ago, thereby may be shoveled up and taken away, obtaining the more desirable result in con-

Several Omaha homes are so equipped.

Furnaces, steam and hot water heating plants for residences are too common to onger attract attention, except when one or the other is not supplied, but improvenents are constantly being made even in these systems. Little if any evidence of he heating plant is now to be seen in the lewer buildings. The unsightly radiator and hot water pipes are completely hidden. One of the most approved methods places the radiator in a space provided in the wall Just beneath the windowwill, which was left correspondingly broad. By this plan the heat rises about the window, where the

cold commonly enters, and the result is most satisfactory. An instrument much been materially curtailed during the last like a thermometer accompanies this arrangement and it is only necessary to turn the indicator on its dial to any desired tomperature.

The introduction of water into the modern house is so ingeniously contrived nowa-days that it is available in any sportment where there would be possible occasion for its use. The ingury of some bath rooms is little short of regal. The private bath with each dressing room is no onger unusual, even in homes not counted pretentious. For supplying the other household necessities the water system is convenient in proportion. In the lavatory, the kitchen, the butler's pantry, the laundry and even in hose attachments scattered over the house for use in case of fire, one only has to turn the spigot and an abundant supply is at hand.

Free Delivery Helps.

labors easier. Supplementary to all these conveniences livery system that prevails in almost The daily papers are delivered at the house door morning and afternoon and

greatly unlike it in appearance, that not directly to their apartment by means of a man, they must present a paradise of

municate her wants to the grocer, the butcher and the baker, who in turn, de-

HARDWARE FOR HOME USES Many New and Useful Articles Shown by the Dealers in Metal

Goods. purpose. Hardware for the home has made a considered all important in the furnishing are provided and should make the careful

In many of the up-to-date homes in nozzel over the carpet, curtains, furniture Omaha it is most noticeable that there is venience and beauty. The more ornamental

Some Bovelties that Are New Frevided for Lessoning Work.

MANY IMPROVEMENTS ON OLD DESIGNS

Innovations of Many Minds Lighter the Wusk of the Housewife and Make Hes Path One of Numr Blass

Necessity being the mother of invention and the necessity of lightening the load on the shoulders of the patient housewife being very great to the man who loves his wife, there is no branch of the household duties for which more utensils are constantly being invented than for the kitchen, by which it is intended to include the cooking, washing, laundry and other branches that have their headquarters around the back door. Nor do the inventive minds stop at necessities when they find it a paying field in which to operate their genius, but they go on thinking up all sorts of fancy things no housewife would ever think of by herself, with the result that the shelves of the hardware and crockery dealers are loaded down with numberless little trinkets and big ones as well, some to aid her in presenting a more enticing meal to her busi-

ness-worried husband when he comes home at night and others to make her

So many and so varied are the contrivances in this direction that it requires an expert to pass from counter to counter in any hardware store and be able to tell the use of each article seen. In fact the manager of the hardware department in an Omaha store remarked last week that he is obliged to look up the pamphlets in dozens of instances before he is able to explain what many of his articles displayed for sale were manufactured for.

Woman Understands Them. Bewildering as the different tins, pots and peculiarly shaped dishes might be to possibilities to a woman. New material for cooking utenails, new and pretty shapes for molds of different kinds, new instruments for doing all the irksome, disagreeable things in connection with preparing meals are shown. Sanitation is the watchword in the manu

facture of all cooking utensils and to this end vessels with a smooth pollshed surface are favorite. Most of them are of foreign make. There are a number of different materials used in the outside finish, given various names, but steel for the inside to give strength and shape is mostly used. The so-called granite ware is one of these with which the public is best acquainted. but a new article has recently been introduced from Luxemberg, Germany, of a brown shade on the outside and the inner

bowl coated with a white treatment, for which, special hygicals properties are laim

A full set of these brown vessels present a handsome sight and they are in almost every shape and size for almost every They withstand a great deal of heat and can be placed in the hot oven or on the stove in direct contact with the hot metal without injury, but will not stand the fire direct. There are handsome custard cups, shirred agg dishes, casseroles, both oval and round, egg friers and fancy molds of many shapes and sizes, all of the same appearance and material. Whole sets of crockery and dishes for the kitchen cabinet

housewife swell with pride and admiration. Labels on the Utensils.

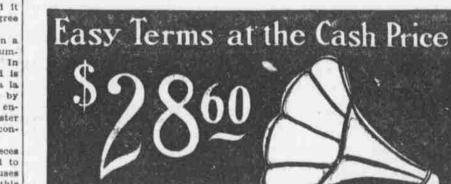
Then there are other enamelied wares made under other patents just as good, enough to allow any woman to follow her particular tastes. Some manufacturers put

has been bolled, pounded and strained it MAKING STATUES OF SAINTS is thinned down, according to the degree of fluidity which the modeller requires. A Prosperous Industry Which Centers The first thing, of course, is to obtain a in One Quarter of fthe mould in two parts, from which any num-French Capital. ber of copies may afterward be cast. In

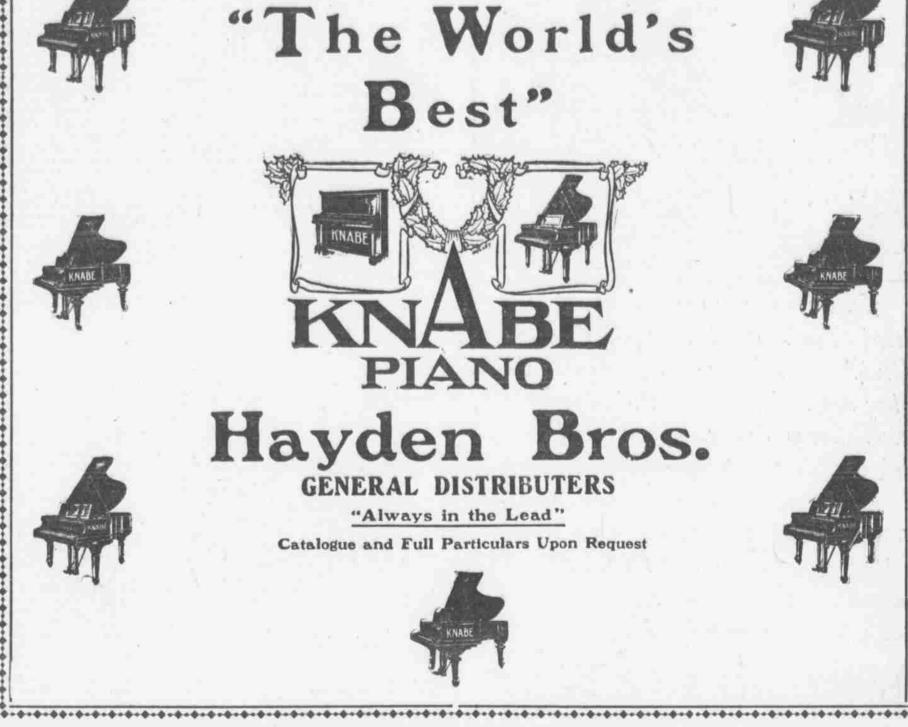
the case of a life-size statue a mould is All the world knows that Paris is the obtained in two ways-a bon creux or a la world's art center; but there is no more gelatine. In order to produce a mould by curious phase of it than the moulding of the first named method the original is enthose gorgeous and often jey od statues tirely covered with little bits of pinster which one sees in Catholic churches all four or five centimeters thick, thus conthe world over, from London to Buenos stituting the mould.

Ayres and from New York to Sydney. Church of Saint Sulpice, in the neighbor- prevent these falling apart the artist uses The cleaning of the air is another luxury trimmings were a nuisance to clean and a out vessels of the sanitary virtues with hood of the Rue de Rennes and the Odeon. an outer envelope of plaster. When this not uncommon in many of the larger east- bother to the good housewife and the maid, pretty letters on to indicate the contents At one time the big religious statue was a made of all one color, except for the in- could afford to place such works of art in tail. side, which is always white enamelled, the churches. Nowadays it is different, number of copies of a costly original may be made, so that the humblest church may Perhaps the greatest dealer in all Paris serhaps the greatest authority on hagiology alive. Such a man is wealthy enough to commission Auguste Rodin himself to execute a statue of angel or saint at a figure running into tens of thousands of dollars. The right to reproduce in any size and material is bought from the artist.

The dimensions and form of the pieces This craft is carried on around the old vary with the lines of the model, and to



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air circulated through these buildings is trouble to care for. first passed through a machine that cleanses it of all dust and impurities.

## Keeping a House Cool.

The house refrigerating system is another of the modern marvels that while not generally used promises to become popular. This, too, originated in the apartment house, where tall buildings frequently interfere with the circulation of air or the weather strips are unnecessary. Nothing breeze, and it is perhaps most practicable there. The house is piped much as the firmly reinferred against the onslaughts cold storage houses are, though not so extensively. The coils are arranged inside the wall up next the ceiling and are locks. protected in a way that insures against damage to the walls. The cooling fluid is forced through the pipes, cooling the walls and so lowering the temperature of the room as desired, this being regulated by a stop that may be turned on or off just as heat is regulated. The same plant supplies the refrigerators eliminating the nuisance incidental to the delivery of quite independent of outside conditions or hindrances.

## Electricity in the Home.

mirror.

Nothing has profited more by the introduction of electricity than the modern in designs to match other house hardware home. continued delights of the housekeeper and dows or windows far above the floor. every nook and corner until there is no with acrews to match. Wardrobe hooks longer need of a single dark place in the may be had as fancy as one would desire, house. The electrolier as a means of 11- single or double, for sides or ceiling. Towel lumination is scarcely less a joy as a and tollet hooks are manufactured with decorative feature. The drop light or read- reference to use on wood or marble for ing lamp is no less an ornament, while the bath room. For screen doors fancy the swinging bulb may be carried about catches and bolts may be had with ornain any part of a room or into the depths mental screen door brackets for relieving of the blackest closet without danger, and the corners. For front screen doors moranchored to a hook or a nall while nocas. time locks are especially prepared. These sary. In some of the newer houses the work like a night latch on a heavy door, closets are equipped with electric lights When the door is looked it may be opened which turn on or off automatically as from the outside by a key only, but when the door opens or closes. Sockets are also the stop is not in use the knob will work provided in shadowy places in the cellar the latch from both sides. or attin to which a bulb on a long wire may be attached when desirable.

For cooking purposes electricity and mas are quite as practical as for illuminating. In the modern kitchen the coal range is becoming more and more a stranger and in its place, the clean, quick and quite as economical gas or electric range Even the warming oven has has come. been perfected to the point where the top of the old stove is no longer missed. The possibility of interruption in the electrie current prejudices many in favor of blown from the pivot by accident. They gas for all purposes, and except for the are flyproof and the screens are stronger danger of fire from contact with the flame, and will outlast a sliding screen. it is as convenient as electricity. A cold room is no longer excusable in any house the claim is made that outside shutters do piped for gas, for the little gas heater not in any way interfere with the screens. can quickly overcome this difficulty.

#### Phones in the House.

The convenience and the value of the telsphone can only be estimated by those to exert a slight pressure to one side. It comparatively few occasions when this is claimed that screen fabrics can be remeans of communication is out of order. And what the long-distance talephones sides of the frame are made in two parts, means to the business man, the house tele- one working within the other and of such phone is coming to mean to the mistressos shape that as the parts are drawn together of large establishments. The old-fashioned with the screws the screen cloth is stretched speaking tube once counted such a luxury perfectly tight. has been almost entirely supplanted by the house 'phone, which is much surer and be accomplished with no other tool than a juleter and which admits of no possibility screwdriver. of transmitting odors or noise through the ouse. The stables or garage, or even the man in the greenhouse may be communicated with direct from the mistress' boudoir, as well as the cook in the kitchen, the laundress down stairs or the maid busy gold and silver is most effective, and so are on the floor above. The system is simple black draperies over gold.

ern hotels and apartment houses. All the while the simpler are just as rich and no they are supposed to contain. Some are very costly luxury, and only the wealthy New devices of all kinds are being pat-

ented each year in the way of locks and and others have the enamel running over for thanks to mechanical progress any fastenings. This year a new window fas- the side making a white border. A tendency in fancy cooking is to give tener is out which is warranted to be bur-

glar proof. By merely opening or shutting all sorts of proity shapes to gelatines, pud- buy a statue of its patron saint. the window from top or bottom it will dings and the like, and to facilitate this lock itself automatically at the desired matter all sorts of molds in all materials is Pacheu, himself a practical artist, and point. It prevents rattling and drafts and down to plain tin, are offered. Dealers can show rows of nothing but molds for can be done to pick this lock and it is these purposes and certainly any taste ought to find its own Certain firms which make a specialty of of the burglar's jimmle. It fits new or old windows and does away with center sash such small cooking tools publish little

booklets, to be given out gratis, showing Another firm has a lock which is said to the use of their products, with illustrabe a wonder in its simplicity, as the only tions of their fancy waffle irons, pastry and ple trimmers, rosette irons for wafers weakening to the door is by four small holes which are put through. Machine for all purposes, rubber bags and tubes for decorating and also recipes for mixing acrows are used and it carries out the new

wafers, with, what is perhaps more pracidea in hardware of simplicity. Glass knobs, cut and otherwise, are used tical, colored pictures of what the products quite extensively in some of the more should look like when completed. Thus coutly houses, adding a richness not found asparagus on waters, strawberries, marin brass or bronze, especially when on guerites with peaches, poached egg proice and insuring an even temperature milady's door on which is a full length ductions, all decorated with greens or cream in the daintlest ways possible, are

shown "in action." The only trouble with Many small novelties in hardware have presented themselves for the choice of the the pictures is that they make the dishes look too good to be eaten and thus spoiled. home builder. Nobby sash lifts are made But any woman should be delighted to own The electric light is one of the and are especially desirable for heavy win- the apparatus with which she might be able to turn out such appetizing dainties. By for her convenience it has been put into Shutter bars are made in varied designs their aid the commonest dishes are turned into the appearance of studied desorts.

Improvements in Ranges. The use of gas as an easy and cleanly cooking accessory is now common, and now come advanced improvements in ranges, both for coal and gas. Ranges are ande with high ovens, standing even with the head, so it is not necessary to bend over in order to look at what is cooking inside, a heretofore very inconvenient and inpleasant act. The top of the slove is as formerly, but the heat is carried to the oven by means of flues. There is also the table stove, with side oven and broller, which others might prefer, but the former An adjustable metal frame window screen

take up much less space. is now manufactured and is coming into A recent invention is the "fireless cooklarge use. A swinging screen is also on stove." The name should make every the market. It does away with the objecwoman who bakes her own bread look up tionable disadvantages of sliding half screens. It has no pieces which might split and notice. But the name carries too broad a meaning, though it indicates an off from the grooved sides of a screen. article that should be a valuable addition There also is an absence of springs and to every kitchen. The work of this stove slide strips which might interfere with is merely to finish cooking what has alstorm windows, and no parts to loosen or ready been started and has its value in replace when making the change from the fact that it need not be watched nor screen to storm such. The hanging screens any fire kept going. Food is placed on a do not stick, cannot be raised, pushed or fire as usual and heated to a boiling temperature. This may be done in the morning, directly after breakfast, if the wife expects to be busy during the forenoon,

The steel frames are made to order and either to go to church or to clean up the house, so she has not time to stand over the stove and cook. They travel in metal guides, screening only After all the foods which are to be cooked

half the window at a time. To remove the have been placed in the stove there is screens from the guides it is only necessary nothing to be done but close it up and then go about other business. When the time comes to eat open the stove and the newed with the greatest case since the food will be found thoroughly cooked, but never overdone, by its own heat, and all ready to be served. The woman who finds herself short of time should be able to make good use of such a contrivance.

It is said that the whole operation can No Lae. "I hear you use hypnotism," said the woman, "and I want you to try it on my husband. He's suffering dreadfully." "All right," responded the dentist, "bring him in."

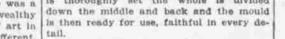
Jewel Fancies.

"Bring him in? Why, say, unless you hypnotize him first he can't be dragged within ten blocks of your office." "Absent treatment is out of my line," re-sponded the professional man There is a fancy for violet stones in jewelry, amythysts being more in vogue than anything except diamonds and turquoise. Figured chiffon laid over cloth of sponded the professional man, somewhat coldly.-Philadelphia Ledger

In some cases the sculptor will merely Even when the replica comes forth from design a statue on paper and Pacheu's own staff will execute it in stone, plaster or wood. Some of the artists on the manu facturer's staff, by the way, draw salaries up to \$7,000 a year. priest in Andalusia or southern Chile.

Last, but not least, it must be borne in Russia is one of Pacheu's largest custo mind that in spite of this duplication the ners and every year he sells hundreds of original statue retains at least some of its thousands of gayly jeweled ikons to ortho value as a work of art. Pacheu and two dox churches all over the empire, from the or three of the other large dealers in these German frontier to eastern Siberia. And quaint objects sustain severe losses occa- often enough, when the statue reaches a sionally by, following their own judgment rich Siberian town, like Irkutsk or Tobolsk, in the matter of buying and then finding the plaster crown will be removed and one of pure gold substituted, set with magnifithat their purchase fails to find favor. There is a good deal of secrecy about the cent uncut diamonds and emeralds .- New business, especially in the matter of the York Sun.

ngredients of this material are known only Now is the time to make your wants to the principal of the house, and after it known through The Bee Want Ad page.



But even after the mould has been se cured in this way there is a good deal to be done, for the copy is covered with plaster ridges where there are joinings in the mould. These imperfections must be emoved by another artist.

To model a la gelatine the artist first takes an outer casing of plaster, then susends the original statue upside down and uts the casing in such a position as almost touch the sides of the model. The narw space in botween is then filled in with iquid gelatine, which when hard produces perfect mould.

the mould and its glaring imperfections are softened down much remains to be done It must be colored, glided or equipped in accordance with the ideas of a parish

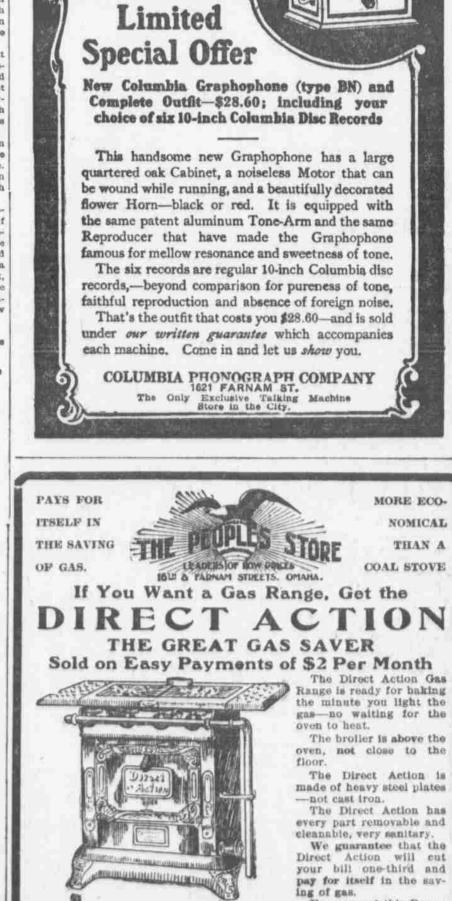
composition of the modeling plaster. The



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