THE OMAHA SUNDAY BEE: OCTOBER 17, 1909

Thoughts on Furnace Management By C. M. Eston.

C

TRNACE management consists (possible. Almost everyone shakes their very largely in knowing some- grates too much, thus wasting a large thing about the furnace you are amount of fuel which is shaken down trying to use. A large percent- through in the form of red hot coals. Alage of the trouble in operating ways take up your ashes before shaking a furnace is in not knowing or touching your grates. Much of the ether your furnace was originally made disagreeable odor through your house can burn wood, soft coal or hard coal. If be avoided by following this simple rule doubt telephons to someone who is The ashes shaken down this morning are in expected to know, giving the number, date, cold and odorless if taken out tomorrow name and maker of your furnace, and morning. The fresh ashes shaken down start out right, with the proper fuel are hot, full of fire and emit for several hours a very disagreeable odor, which goes adapted to your furnace. A furnace to work satisfactorily must be all over your house.

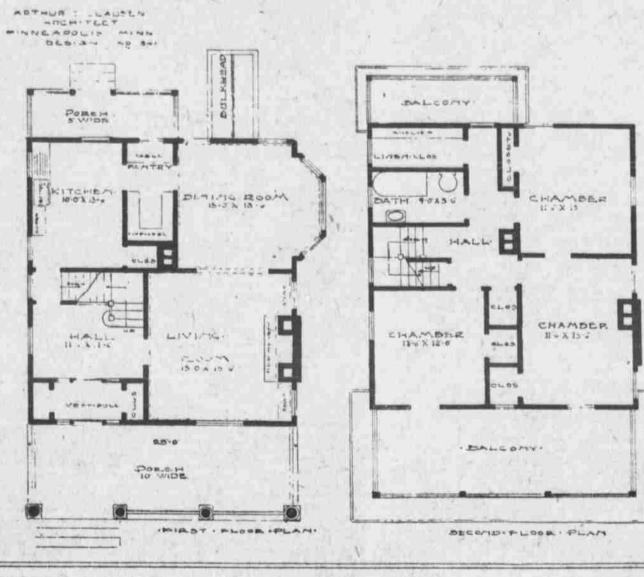
kept clean. In Lurning any kind of fuel Every cellar should have ventilation from the following suggestions will be valuable, two sides, so that the cellar will always Never open the feed door until you are be sweet and clean. In the spring take sure the back check damper is closed and down your smoke pipe, clean it out and if a direct draft damper is used see that leave it down all summer. If it is left up It is open or upright and he sure that the clean out your furnace, put a piece of ash pit door is closed. When you open unslacked lime as large as your head on the feed door do not open it with a quick the grate, leave the ash pit door, feed jerk; if you do the accumulation of gas door and back check open. The lime will or smoke in front of the feed door will absorb moleture and help keep the cellar by suction be drawn out into the cellar air pure.

and you may in a few moments hear a Most furnaces are now made with a very gentle call from upstairs asking what you large check draft in the rear. This must are doing. To avoid this open the feed be used with great care. If fresh coal is foor an inch or so, allowing the current put in the furnace, either soft or hard. of air or druft to carry off the products and if the check draft is opened full width of combustion to the rear of the furnace you are carrying into the smoke pipe all and up the chimney. Care should be used the air the pipe can carry off, and as the in putting in fresh coal. In filling up the furnace is manufacturing smoke and gas fire chamber put fresh coal in front and there is no way for it to be carried off gradually fill it up to back. If soft coal is and the result is that it is forced out into used fill it up only from center and keep the cellar and forced out through cemented fresh fire burning around the outside of joints, and you wonder what the trouble firebox. This is done so as to not smother is with your furnace. The trouble is with your fire. I always put fresh coal in a you and not your furnace.

furnace before shaking or touching the It is surprising how many people take grate, especially when using hard cost. If their trouble to their coal dealer and blame coal is put on first and then you shake him for all the gas, smoke and soot that your grate the whole mass settles down gets up into the rooms. Why not take together and makes a better fire and your trouble to your furnace man, if you kindles much more quickly. Hard coal have done everything that can be done must not be disturbed by putting a poker and your furnace still gives you trouble. in through the feed door and punching or Over half of the complaints made can be otherwise disturbing the fire. If clinkers traced almost directly to the mistise of the have to be removed do it as carefully as furnace







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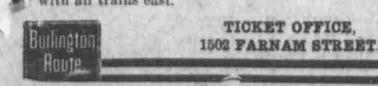
It is brilliantly lighted by electricity generated by a dynamo in charge of the train electrician-

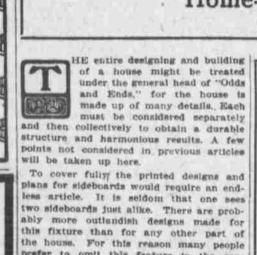
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prefer to omit this feature in the contruction of the house, merely providing r a receas into which a movable sidepard can be placed. In each should be rovided many drawers for knives, forks, napkins, etc., and a cupboard with shelves for tablecloths and dollies. Above shelves for cut glass and decorated china. A row of small cupboards at the top, the middle portion being brought out into a bay is a good arrangement; the doors of these little cupboards should have small square cop-

pered glass lights. Placing columns in interior doorways as decorative feature is commendable under appropriate circumstances. The columns should always be in exact proportion regardless of the height. They can be of any order of architecture, but are usually

Ionic, Corinthian, composite or of Italian renaissance. The caps are either hand sarved wood or composition, a durable naterial moulded in imitation of wood carving that can be bought at a low price. An allptical opening is graceful if made 'string method" should always be insisted

upon, as it is the only practical one and will bring good results. A neat finish for kitchen or bathroom is obtained by using cement plaster on wire or metal lath marked off and enamled in imitation of tile. A closet dresser built in at one or both ends of the closet

as desired, there should be at least two compartments for hats, one or two small the sills are of stone be sure that a groove tion as joist. is cut under the overhanging edge to drip

off the rain.

THE BEE'S PLAN BOOK

Arthur C. Clauses, Architect.

Through an arrangement with Ar-thur C. Clausen, architect, the read-ers of The Omaha Bee can obtain a copy of his beautiful book,

"THE ART, SCIENCE AND SEN-TIMENT OF ROMEBUILD-ING," for One Dollar.

This book contains forty-six chap-ters and 300 illustrations, printed on paper, with cover stamped in gold. It deals with the practical side of homebuilding, giv-ing complete information on the planning and designing of every kind of home. There is nothing more practical than making the home ar-sistle, building it on scientific lines and warmth. The author of the book alms to give the intending home-buying the lot, planning the home, itting the contract, choosing the doors, windows, statrways, fire-places, exteriors, interior finish, etc., windows, sistirways, fire-places, exteriors, interior finish, etc., with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions that could be anticipated with good common serse. Nearly at uestions the book should prove a great help to those who are observed and the book should prove a great help to those who are observed and the book should prove a great help to those who are observed and the book should prove a great help to those who are observed and the book should prove a great help to those who are observed and the book should prove a great help to those who are observed and the book should prove a great help to those who are observed and the book should prove a great help to those the book should prove a great help to those the book should prove a great help to those the book should prove a great help to

will pay for itself in a short time by a saving of funl. This method is far better than back plastering.

The basement sill inside should slant down instead of being carried out flat. The right. In making an eliptical arch the latter method is a dirt catcher and cuts off considerable light. There should be a cellar under the entire house, as it costs but little more than a smaller one, the space can always be used, and it makes a

house dryer and warmer when there is a heating plant. The cellar should be from seven (never less) to eight feet high, and it is best to plaster the ceiling with hard can be made any number of drawers high plaster on wire or metal lath, thus making a fairly good fire stop. The side walls should be whitewashed with two coats drawers for gloves, necktles and other The floor should be of good concrete, at small articles, and a small drawer at the least four inches thick, with an inch of bottom for shoes, shoe blacking, etc., those cement (one part cement, two parts sand) above (any number of them) should be on top. Cellar walls, whether of stone or the full width of the dresser for skirt, brick, should have an inch of cement on rousers, etc. It is not best to make these the outside to keep out moisture. Cellar last named drawers too deep. The best wall should not be less than twelve inches make the side walls of cedar flooring. eighteen inches if of rubble stone. Each They are then vermin proof and you can thickness should be increased four inches put hooks and shelves in them anywhere if the house above is of brick or brick closets should never be painted or var- should always be laid in cement mortar, have windows and also ventilation. Use nished. More or less dust and soot always never lime. Each pair of floor joist should open plumbing only. A water closet sep- best to let the contract for your entire

and roof are best. A substitute being fir Laundry tube in cellar, kitchen sink what you may have been told to the con The best method of making a frame shingles never the basawood shingles, directly over them and bath room over trary. As Mark Twain puts it, "Put all house cool in summer and warm in winter. Cedar shingles, if allowed to weather, be- that. Don't forget a good sixed linen your eggs in one basket and watch that is as follows: On the inside of the stud- come a pleasing gray. It it is desired to closet with an outside window ding is the ordinary hard plastering on stain them use a crossole stain. It is best A hot water heating plant is best, steam

wood lath, on the outside put one thick- to dip the shingles in the stain and place next and then furnace. Hot water cost ness of pine sheathing, then stringed tar on the roof when dry. Matchod boards or the most and hot air the least. There felt paper (for wind and vermin), another ship iso make a better and warmer job should be fresh air ventilation in several thickness of sheathing, then rosin paper than plain boards. Horizontal sheathing parts of the house. A good heating man have a better and warmer job should be fresh all ventilation in several the winds blow over this tree it gives out futelike sounds, playing away to the will describe in detail to you the advant derness for hours at a time, strange, weind four-inch laps for paper. The cost of the paper is too small to con-or birch is more expensive, but better. An such a chefter, and the extra layer of sheathing oak floor, because of fits open grain, is and should not be in the contractor's con-

harder to keep in good condition than maple. All flooring should be "blind nailed;" that is, the nails should be driven into the tongue of each strip as it is laid. Floaring should be absolutely dry, klin dried, before laying, and then finished as soon as possible. The kfichen floor should be finished in oil, so that it can be scrubbed often. A felt deadening is advisable between the under and top flooring of the second floor. A wide porch costs a little more than a narrow one, eight to twelve feet wide is about right for the average house. Sap lumber should never be almatched boards for porched floor a good about an eighth of an inch apart. This will prevent warping and an uneven floor The porch floor should have about a two-inch slant from the house to the outside edge. Porch steps should be one and a quarter inch thick. Make all outside door sills of white oak. If there is no stairway to attic, provide a scuttle to it. A closet being a good place for it. Some cities require this precaution to make easy access for firemen if ever needed. If the rafters of a roof are plastered with brown, rough plastering, your attic will be warmer in winter and cooler in summer. Provide a dormer or window in gables for light and ventilation to attic. Chimneys should be built from the ground up (some cities require this). A terra cotta or burnt clay flue lining is the best. Floor joist should not rest in chimney walls, but on headers outside of them. Metal lath is more expensive than wood, but serves admigably as a guard against the passage of fire; it

also prevents the passage of rats, mice etc. Have plenty of windows and us them. Sunlight and air (winter and sum mer) is the best preventive, as well as cure for consumption and pulmonary troubles. Have a uniformity of height for your doors and windows.

leaves you free to select hardware, as locks for doors and windows, sash lifts, hinges, Don't forget to put storm sash, window screens and screen doors in your building etc., as suits your taste. Don't place gas contract. Patent sliding screens on the fixtures behind doors or close to windows lower half of windows are the best; they near the curtains. Do not arrange doors can be easily placed and removed and the and windows so that wall space can not windows can always be washed. Shutters be found for necessary furniture, as beds, or "blinds" always look well on colonial dressers, sideboards, etc. Study the swing houses and have several advantages, of your doors so that they will not swing Small windows in closets where they do onto stationary furniture. Don't swing not interfere with the exterior design of the doors onti the closet, swing them outthe house are of an advantage. A ven- ward. Leave room for a bedroom dresses tilating flue in the kitchen chimney is a near a window, but not opposite. Place splendid thing and costs little. It is alyour radiators or registers near windows finish for the interior of a closet is to thick of good, hard brick, or concrete, and the floor for bath room is best. If a wood the cold air as it enters the bead of your most a necessity in a sanitary home. A (under them is best), where they will heat floor is used have water-proof paper placed place a radiator near the head of your under the top flooring. Porcelain or bed or on wall space available for neceswithout breaking the plastering. Cedar veneer. Cellar walls of stone or brick ordered bath room. All bath rooms should pantry door is a good thing. enamel iron tubs are a necessity for a well sary wall furniture. In conclusion it may be stated that it is

gathers on a sull and when it rains it will be "cross-bridged" every five or six feet arate from the bath room is convenient, house (except heating and plumbing) to streak down the side of the house if it is in their length. Put double joist under but it should be adjoining the latter, hav- one general contractor. It saves you muc not dripped off in some manner. When all partitions running in the same direc- ing, however, a separate entrance and an needless worry, and is far cheaper that outside window. It is cheaper to have "day labor," separate contracts fo Cedar or cypress shingles for side walls your plumbing in a perpendicular line. various parts of the work regardless of

binket.

Whistling and Weeping Trees.

Among the curtosities of tree life is the sofar, or whistling tree of Nubia. When the winds blow over this tree it gives out

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which an insect bores in the spines of the

branches. The weeping tree of the Canary islands is another arboreal fruit. This tree is the dryest weather will rain down showers from its leaves and the natives gather up the water from the pool formed at the foot of the irunia and find it pure and fresh. The tree exudes the water from in-numerable pores at the ends of the leaves. "Chicago fournat." -Chicago Journal