

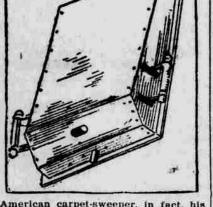
To Test Sanitary Piping.

or lest this rate of feeding 75 tons would feed ing sanitary piping in a house, of which the use of oil of peppermint and smoke are the most common. The smoke test shows the location of a leak by escaping smoke. The latest apparatus consists of a smoke generating chamber and bellows. The smoke generating chamber is sealed by water, which not only provides a seal against the escape of smoke from the apparatus, but keeps the smoke chamber cool. In this chamber oily waste, tar paper or other material adapted for producing a dense smoke outlet and carried to one of the inlets or outlets of a plumbing system. Sometimes the hose taking the smoke from the machine is carried to the nure. fresh air inlet, and the smoke is driven up through the building until every pipe connected with the drainage system is filled with dense smoke.

a man passing by. The call for a match comes from out of the holdover hay and a small grain ration a cow fifty times every day. About 95 per should have about 35 pounds of silage cent of the men and women who find up' from the match do so from the per day for a period of 180 days. At their way into the city jail are smek-

cigarette and a crowd gathers about him with papers and tobacco. The man strikes the match with great deliteration and those who can't 'light

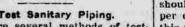
of any writing machine, and under the severest tests of actual business it wears like an anvil. The Smith Premier Typewriter Co. Cor. 17th and Farnam St., OMAHA, NEB.



appliance in general appearance very much resembles a sweeper.

companied by means of live steam applied by flexible hose attachment in a closed receptacle. This has an open face surrounded by a flexible flange or rim. The actual removal of the paper is accomplished by means of scraping blades actuated by handles projecting through the receptacle. The debris is retained within the de-rice, and emptied at intervals without taking any appreciable dirt.

of corn silage. In addition to good hay and a small grain ration a cow



Gas Versus Electricity.

The incandescent mantle has saved the gas industry, and not only saved It but placed it in such a position that gas lighting by modern method: of high pressure incandescence, inverted burners, and so forth, threatens to outstrip electricity for general lighting purposes. This is no exaggeration when it is remembered that invariably the finest streets in the great cities of Europe are now lighted with incandescent gas burners, and if the high-pressure incandescent lamps be compared with the electric arc lights at some of the busy street crossings in London there can be no question of the great superiority of the incandescent gas system. In fact, in several places the electric arc lights may as well not be in use in the face of the brilliant penetrating light of the incandescent mantle. Nor is it on the large scale alone that gas is seriously rivaling electricity. The inverted incandescent gas burner is hardly distinguishable in appearance from the incandescent electric light in the artistic lighting of domestic rooms.

Ether Waves.

One of the characteristics of ether waves, such as those of light and heat, is that they produce a distinct pressure in the direction they travel. in the case of the earth this outward pressure from the sun is said to be 70,000 tons, but this is a mere triffe compared with the vast gravitational attraction toward the sun.

23 cows during the winter months.

Manure Pit Beneath Stable Floor. F. R.-1. If manure from a herd of by a man who has but a few cents is cows were stored in a pit beneath the floor of the stable during the winter season, would it pollute the atmosphere of the stable? 2. Could a concrete floor be built on planks several feet above ground?

1. If the floor of the stable were tight, the trap-door close fitting, and the sides of the pit were open so that the wind may blow through, the atthe wind may blow through, the at-mosphere of the stable should not be **Port** polluted by the gasses from the ma

2. A floor of cement could be built on a plank floor, but it would require very firm foundation timbers in order to prevent cracking. A cheaper and more suitable floor for an elevated

stable would consist of sawed cedar blocks, laid in hot coal tar, with sand and tar filled in between the blocks. A floor carefully laid in this way would be water tight, durable and quite inexpensive.

Lumber Required for Two Rooms. A. H.-How much lumber would be required to build a room 12x20 feet. also a kitchen 8x10 feet long, weather boards, lining, rafters and shingles?

Your house would require 800 feet of 2x4-inch scantling for rafters, plates and studding; 600 feet of sheet ing for roof; 1,600 feet for weather boards and inside lining; six squares of shingles, 650 feet for flooring and front of veranda. The above estimate is based on this plan.

Cost of Windmill.

A. H. M .- What would it cost to put up a windmill to pump from a well in which the water is 25 feet from the top; the water to be forced 25 feet to the house and 450 feet to the barn over level ground?

An eight-foot windmill on a 30-foot lower would cost approximately \$75. If galvanized pipe were used it would cost about ten cents per foot, covering the distance in which the water is car ried. An efficient pump to work in connection with the windmill would cost anywhere from \$10 to \$15.

ers. They have tobacco, or usually a Ingnied few cents with which they can buy Everybody gets a smoke off of one it. They seldom buy matches, though, match. Those on the outside of the because spending money for matches cells are accommodating to those on

considered extravagance. 'You can't imagine how many ways the prisoners contrive to save and get matches." said Jailer Emmons.

have seen forty prisoners light cigarettes from a single match. On a day when matches are scarce a prisoner | to the hole in the door so a woman on

match. He will split it up into four 'Kansas City Journal.

the inside. "The women, too, often want matches. The women are in a separate apartment, but there is a small hole through the door between the two rooms, and it is nothing uncomm see a man hold a lighted cigarette up

cigarettes

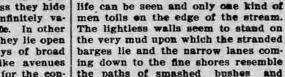
will never think of wasting a whole the other side can get her light."-



This stretch of the Thames from | Nantes, or Bordeaux, or even old Rouen, where the night watchmen of London bridge to the Albert docks is ships, elbows on rail, gaze at shop to other watersides of river ports what windows and brilliant cafes and see a virgin forest would be to a garden, the audience go in and come out of says a writer in the Metropolitan. It the opera house. But London, the is a thing grown up, not made. It oldest and greatest of river ports, does recalls a jungle by the confused and not possess as much as 100 yards of impenetrable aspect of the buildings quays upon its river front. Dark and that line the shore, not according to a impenetrable at night, like the face of planned purpose, but as if by accia forest, is the London waterside. dent, from scattered seeds.

It is the waterside of watersides, Like the matted growth of bushes and creepers veiling the silent depth where only one aspect of the world's of an unexplored wilderness they hide the depths of London's infinitely varied, vigorous, seething life. In other river ports it is not so. They lie open to their stream with quays of broad ciearings, with streets like avenues cut through thick timber for the con-

venience of trade. I am thinking now of river ports I have seen; of Antwerp, for instance, of streams.



the paths of smashed bushes and crumbled earth where big game comes to drink on the bank of tropical

-Minna Irving, in Leslie's Weekly.



unfurled And the wake is a smother of snow; or the pleasure a canter on horseback affords. A silvery song while we eat. We linger a while under blossor We linger a while under blossomy boughs, An armful of fragrance to steal From apple trees freighted with dewy

affords. Or a day with the rod and the reel: But give me the reach of a long, level road. pink buds, Then away in the automobile.

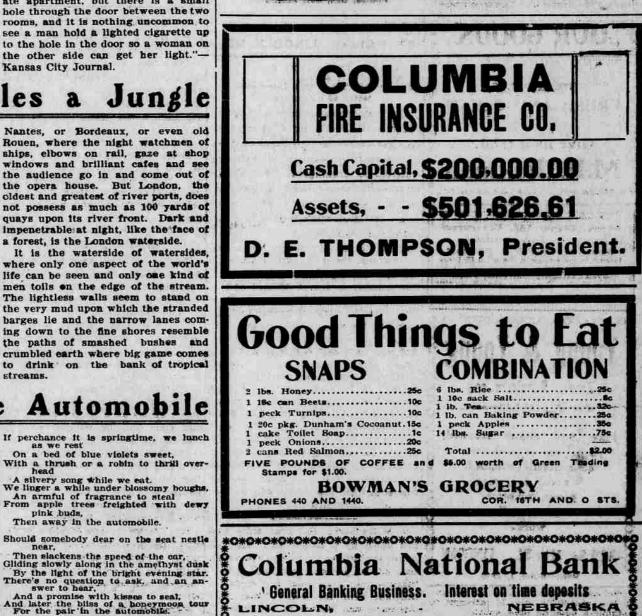
And a seat in an automobile!

How the miles rush away from the tire-less machine!

less machine! How houses and fences fly past! The town is a blur, and the orchards and woods In ribbons of green follow fast. It's adieu to the carriage we meet as we

And farewell to the swift-moving wheel, And good-bye to the trolley car we soon

when out in an automobile.



LINCOLN, NEBRASKA