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DR. C. J. DEAN

Second and Morrison Sts., Portland, Ore.

EXPLAIN SOME OLD EXPRESSIONS

Few Persons Know Real Meaning of the Words They Are Making Use Of.

There are many expressions made use of by persons every day who little know the real meaning of the words they are making use of. Why, for instance, does a 1 mean "first rate" and why does "first rate" mean something of the highest degree of excellence? A 1 is derived from the symbol denoting ships in the best condition in "Lloyd's Registry of Shipping," and "first rate" is an allusion to a warship of the highest class. To have an axe to grind is from the American backwoodsman's practice of cutting at houses ostensibly to grind an axe, but in reality to obtain a drink. Bogus: From Borghese, a swindler who about 1837 in Boston passed worthless securities. To take the cake: Allusion to the prize of a cake in negro cake-walking contests. The deuce: From the German "das daus." Possibly connected with the Celtic "dus," a wood

HELD UP ON WAY TO DOCTOR

Negro Bandit Inflicts Scalp Wound in Struggle With Blind Victim in New York.

New York.—Walter A. Green, sixty-one years old, accidentally used iodine on his eyes instead of an eye wash and was temporarily blinded. He put on a few clothes and was hurrying to the doctor's when a negro

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will make Silos, Granaries, Basements, etc., Waterproof, Rotproof, Ratproof and Fireproof. Medusa Waterproofed Portland Cement is the best for Stucco Plaster on outside for Bungalows—Does not stain and dirt can be hosed off. Write for Literature. Sold by A. McMillan & Co., 340-350 East Ankeny Street, Corner Second.

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Remainable 40c luncheon at noon.
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Davis Bros., American Shoemakers, 103 4th St.

VETERINARIAN—Cattle a Specialty

Dr. Chas. M. Anderson, Kenton, Portland.

Wedding Bouquets and Funeral Pieces

Lubliner Florists, 348 Morrison St.

Historic Date.

On June 2, 1875, while experimenting on his harmonic telegraph, Alexander Graham Bell made the discovery that led to the construction of the first telephone.

demon. To mind one's P's and Q's: A reference to the plants and quarts chalked up in country public houses against credit customers.

Habits of Land Crabs.

The land crabs are found all over the world. Those in the West Indies are fond of sugar cane. A remarkable pilgrimage is made, on the less frequented of these islands, by these purple crabs. They live for the greater part of the year upon the high lands several miles from the sea; but once a year, in May or June, they leave their holes and move at night in vast columns, often three miles long and 200 feet wide, to the sea. No obstacle stands in the way of this remarkable army on its march to the sea.

Nature Note.

In a diplomatic family the new baby always resembles the relative with the most money.

stopped him and hit him on the head, inflicting a scalp wound.

Green fought. The police say he pulled a revolver and fired one shot during the struggle. Then, they say, the negro took the pistol from him and ran away with it. Green and his wife say he had only an imitation revolver, which was a perfume sprayer. Green's head and eyes were treated in a hospital.

When mildew has developed on leather goods it should be wiped off with a damp cloth or washed off with soap and warm water, and the leather oiled lightly with castor or neat's-foot oil and well dried afterwards. These simple methods for preventing and removing mold are satisfactory and safe.

MILDEW WIPED OFF LEATHER

Damp Cloth or Soap and Warm Water Will Be Found Satisfactory—Then Oil Lightly.

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ALFALFA SEEDING IN SUMMER

Considerable Success Attained at University of Illinois in Rotation With Corn.

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WATER TROUGHS EASY TO BUILD

Good Plan to Select Well Drained Site to Prevent Stock From Making Mud Holes.

ALSO PACK AND LEVEL LAND

Cement Wash Can Be Applied With Brush or Broom and Makes Smooth Surface and Also Insures Water-Tightness.

(By W. G. Kaiser, Agricultural Engineer.)

The construction of a concrete trough like that shown in the drawing is not a difficult task and any farmer can build it.

A watering trough should be placed on well drained ground, because under the best of conditions the livestock will in time make mud holes unless a platform is built, or the holes around the trough are filled in as soon as they are made. Sometimes it is advisable to put the trough on a small knoll in order that the water will quickly drain away.

The ground under the trough should not only be drained but also leveled and packed.

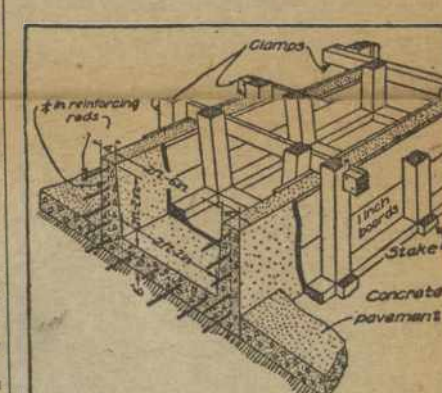
Outside Form of Trough.

The outside forms of the trough are made of one inch boards and 2 by 4-inch pieces as shown in the drawing. After these forms have been securely braced, the concrete can be deposited in the bottom to half the depth of the floor. Reinforcement consisting of 1/4 inch round rods are then placed on the partly constructed floor. These rods are bent in "U" shape so that the ends will project up into the sides and reinforce the walls. All the rods are bent to the proper shape before any concrete work is started, so that they can be quickly put in and the remainder of the concrete floor placed without delay or making any joints.

The inside form which has been made previous to mixing any of the concrete is then quickly lowered in proper place and fastened to the outside forms with clamps as shown in the drawing. Speed is necessary in order that the walls can quickly be placed so there will be a strong bond between walls and floors.

Insure Water-Tightness.

In order to insure water-tightness a 1:2:3 mixture of concrete is recommended. This means 1 sack of cement to 2 cubic feet of sand and 3 cubic



When You Get This Tank Finished It Will Last as Long as You'll Probably Ever Need It.

feet of pebbles or crushed rock. The aggregates should be free from sticks, soil or foreign material. Only enough clean water should be used in mixing to make concrete of a jelly-like consistency.

As the concrete is placed it should be spaded next to the forms in order to force the larger rocks back into the mass and let the mortar work out against the forms, resulting in a smooth, dense surface.

As soon as the concrete has hardened sufficiently to be self-sustaining, the inside form is removed and the interior of the trough given a cement wash made by mixing cement and water until it is about as thick as cream. This wash can be put on with an ordinary brush or broom. The wash will make a smooth surface and insure water-tightness.

The inside of the trough is given a slope outward toward the top. This is important because if water freezes in the tank, the pressure will lift the ice and thereby prevent the formation of crack in the walls.

For a trough of the size shown in the drawing, the following materials will be needed:

Materials Required for Tank.
Outside dimensions 3 ft. 2 in. by 3 ft.
Walls 2 ft. 8 in. high.
Floors 8 in. thick
Concrete Mixture 1:2:3
Volume of Concrete 1 1/4 cu. yd.

Materials Required.
Portland cement 2 sacks
Sand 3 cu. yd.
Pebbles or broken stone 1 cu. yd.
1/4-in. round steel rods 215 ft. (3 1/2 lb.)
For each additional foot of length add to the foregoing quantities:

Portland cement 1 sack
Sand 2 cu. ft.
Pebbles or broken stone 3 cu. ft.
1/4-in. round steel rods 22 ft. (3 1/2 lb.)

MILDEW WIPED OFF LEATHER

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BEEKEEPING OFFERS BIG OPPORTUNITIES

Clover Region Particularly Adapted to Industry.

Few Places in Which It Is Not Possible to Keep Honey Gatherers With Good Profit Under Proper Management.

(Prepared by the United States Department of Agriculture.)

The clover region of the United States offers splendid opportunities for beekeeping. These possibilities, together with the requirements necessary for the success of the undertaking, are discussed in a recent publication of the United States Department of Agriculture, Farmers' Bulletin 1215, Beekeeping in the Clover Region, by E. F. Phillips and George S. Demuth of the division of Bee-Culture Investigations. While not all parts of the clover region are equally good, there are few places, it is pointed out, in which it is not possible to keep bees with profit under proper management.

The typical clover region occupies the northeastern part of the United States, extending west into Minnesota and south approximately to the Ohio river and Mason and Dixon's line. It appears on the west coast in Washington and Oregon. In both east and west the region extends into Canada.



some of the best portions being located north of the national boundary. Limited areas of less value are found outside these boundaries.

The opportunities for beekeeping in this region, are not being utilized as completely as in some other beekeeping regions of the country. There are vast areas of the clover region not adapted to beekeeping, because of the methods of beekeeping practiced, the beekeepers are failing to produce the best possible crops.

Beekeeping to be profitable in this region must be conducted with all possible skill. Better methods, it is believed, will result in a greater development of the industry. Because of the presence of European foulbrood in some parts of the clover region,