## GENERAL BARN FOR SMALL FARM

Design Such That Dairy Herd and Horses May Be Handled Under One Roof.

**ABSOLUTELY NO WASTE SPACE** 

Trussed Roof Provides for Utilization of Entire Upper Part of the Structure-Doors of Modern Build -Ventilation and Feeding Arrangements Perfect.

By WILLIAM, A. RADFORD. Mr. William A. Radford will answe uestions and give advice FREE Of OST on all subjects pertaining to the ubject of building work of the farm, for he readers of this paper. On account of wide experience as i Manufacturer, he is, without doubt the lighest authority on all these subjects. Address all inquiries to William A. Rad-ord, No. 1827 Prairie avenue, Chicago,

There are thousands of farms all over the country that are not large barns of all the various kinds that are in use, so the solution of their problem lies in the combination barn. The combination barn is designed to handle a dairy herd and the horses that back part of the barn and has a chute are needed, under the same roof. A which empties the sliage directly into the barn.

many different sizes, but as a general floor itself. rule only the smaller sizes are built, built it is better to rearrange the plans | three doors placed in it. Two of the

all of the most modern construction. Double sliding doors are used in the gable for placing hay in the mow. These doors are placed on slanting tracks close up under the eaves, where they will be protected. Being on the utside of the barn they are never in the way and do not take up valuable space in the mow.

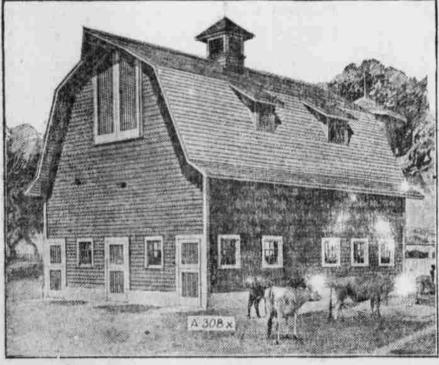
All the other doors into the stable are Dutch doors. The upper and the lower half open separately. The advantage of this type of door is more pronounced in the summer than in the winter. In the summer the upper door can be left open so as to insure a good circulation of air through the barn, and the cattle or horses can be kept inside without tying them up or placing them in the stanchions.

The ventilation is taken care of in the usual way for a barn that is arranged with the dairy cattle facing in. Intake flues for the fresh air are brought in with openings above and in front of the cows. In back of each row of cattle is an outtake flue that passes up the wall and along under the roof to the ventilator.

A litter carrier track is placed back of each row of cows, and the track for this passes out through the back of the barn to a manure pit. The entire floor of the cow stable is of concrete, but often the horse part is made with a wood block or cork floor in the stalls where the horses have to stand. Elther type of floor is easy to clean, as enough to support a complete set of it can be washed out with a hose after the cattle have gone out.

The feeding arrangement in this barn is compact and easily handled, The silo is placed up close to the heavy door separates the two parts of the feeding alley. From here it can readily be placed in the mangers, which Combination barns are made in are built of concrete the same as the

The horse stable is separated from If a large combination barn is to be the dairy barn part by a wall with as having walls aggregating over 800



and divide the animals so that the I doors are in the litter allevs and horses and the dairy cattle come under | other is in the feed alley. Three single separate roofs. This is especially stalls are placed on one side in this true if the owner intends to handle part of the barn, and across from these quite a few horses. There are, of are two wide stalls that can be used course, no real objections to combina- either for two horses or can be fintion designs as long as the two parts | ished off as box stalls. use of a wall and carefully built doors. about the right size for a 40-acre farm. Space is provided for 12 or 14 cows horses that are used around the farm. and from 5 to 7 horses.

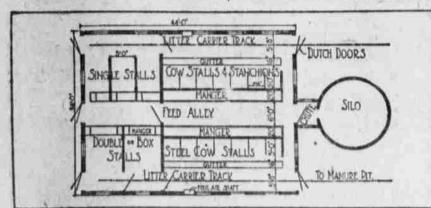
The roof is of the self-supporting type. The lower rafter or gambrel roof is 6 inches by 6 inches by 14 known American banker writes an arfeet long, while the upper rafter is 6 by ticle entitled, "The Money Side of the \$ by 12 feet long. The bracing is taken | War," in which he presents many ininches. Two of these braces are used of the nations at war. In the followfor each of the lower rafters. The hiding some of her gold:

lookout rafters are made from 2 by 4's. of the greatest factors for utilizing all Irkutsk, in the heart of Siberia, where the space in the barn for various pur- a hostile army invading from either

of the barn are kept separate by the | The entire arrangement of this barn presents an attractive design for the The combination barn shown here is man who wants a compact barn for some dairy cattle, with room for the

Russia Hiding Gold in Siberia. In the American Magazine a wellcare of by the timbers 1 inch by 8 side facts about the financial situation by each of the upper rafters and one ing extract he tells where Russia is

"Curiously enough, the Russians The trussed roof for barns has one have placed one of their gold mints at



Ground Floor of Horse and Cow Barn Design. Size, 44 by 34 Feet.

as is shown in the illustration, is the travel about two thousand miles over soon began to disappear under the commonest type, but round barns are the Russian steppes to get at that curse of European disease like mist frequently built with a braced roof. gold." Either type leaves the entire upper part of the barn entirely free from all obstructions, so that it can be most readily utilized as a haymow. The unobstructed space also allows the installation of the hay track in the peak of the roof. The track is fastened to a collar beam, which is a short beam placed between the upper rafters, and serves the double purpose of supporting the track and bracing the rafters. Many manufacturers of the equipment used furnish special hanging irons that are easily attached to the collar beams and which support the track down below. If this style of equipment is used it will save considerable time and trouble to have the collar beams all even and true. The collar beams are set as high as possible so as to bring the track well up into the peak.

The change in the appearance of barn doors is a feature of modern barns as compared with the old sheds that formerly served as barns. Anything would do for a door in the old days. The sliding doors always had at least one roller off the track and hung down with a mournful droop. The hinged doors were broken so that their only value was to bang up against the side of the barn in the wind. The excuse was often made that the doors didn't fit very well, but the cracks around them helped in ventilating the barn. Now that we have a regular street without his overcoat it does not ventilating system, broken-down doors

have no reason for existing. The doors shown in this barn are hock.-Collier's.

American Woman's Good Work.

Woman as an inventor has not come before the public very often, but in the last year Miss Grace Gassette has made her inventions invaluable to the American hospital in Neuilly. Miss Gassette's home was in Chicago before she went to Paris, where she was for years a painter and sculptor. At the beginning of the war she offered her services to the American hospital at Neuilly and soon her work became indispensable. Here she found use for her knowledge of anatomy in inventing apparatus for dressing wounds. Whenever a soldier who is seriously wounded is brought to the hospital the doctor sends for Miss Gassette, who makes a detailed sketch of the kind of instrument needed. From this the workmen construct the delicate apparatus suited to each peculiar wound.

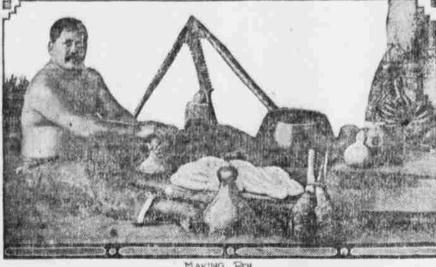
Couldn't Break Himself. Rivers-The fellow across the street always dodges me.

Bridges-Why? Rivers-Force of habit, I suppose. He once owed me \$2 for nearly five years.-Judge.

Still Possible.

Because a man walks along the necessarily follow that you are right in assuming that he has put it in





MAKING POL

cient temples upon the islands. of"? Several impressive examples of these twelfth century edifices are said to be in such a state of preservation that work upon them may be undertaken a height of 20 feet.

people doomed, seemingly, to early exdecimating disease, devastating vices ducks to water-and advice upon the importance of abstemiousness and six days work a week which has been neglected by the natives, as it is usually in balmy climates.

Primitive Conditions Changed. The Hawaiians, when their Eden was discovered, were as a race wholly unconventional, in the sense in which the term is used against what agitators of a sort term the narrowmindedness of the conventions

T IS announced that the territorial | Saxon vindicate his moral conquest of government of Hawaii will restore the people and his appropriation of to their former grandeur the an- the land unless he sticks to "in spite

Dressed in European Garb. As a result of civilization the half million has shrunk to 40,000 or so. The men who survive still are, in many

with certainty as to the correctness of cases, well proportioned, strong and the restoration. The Mookiui temple, athletic. But the women, once prolific. one of the most striking, is described are, in two cases in three, sterile. Those who have children have few. feet, with a breadth of eight feet and The men who wore, in pagan days. nothing more than a loin cloth, wear The Hawaiians are an interesting European trousers and shirts. The women whose only clothing was a tinction as a result of their contact "tapa" petticoat, made from mulberry with the invading and appropriating bark and reaching from the waist to white man who brought them, along the knee, wear the enveloping "holowith the consolations of his religion, ka," counterpart of "mother hubbard," which Christian modesty dictated. -to which the Kanakas took like Nearly everyone understands the European moral code. But the race is dving! In a little while the "Sandwich islanders" who were in many ways an unusual people, and who, because of the benign climate and their exceptional health, enjoyed a life of much singing, dancing and surf bathing with few difficulties and little dole will have gone the way of the Carib Indians under Spanish rule.

A people whose kings and great keep. chieftains were flaming robes made of



HAWAHANS AT A TEAST

which govern the relations of the | the feathers of tropical birds of resexes in nearly all civilized countries; splendent plumage, somewhat outdoconventions differing in detail, but ing in effulgence the rajahs and sulbased in common upon the require tans of "Ormuz and of Ind;" a people ment of chastity in women and fixing who builded majestic temples to obfor failure to meet that requirement sundry social penalties. There was no sons were warriors and whose daughword in the Hawalian language for ters were the mothers of many warchastity. Children bore the names of riors' sons until white men came to their mothers because that method of tell them that their way of life was naming them was the only practical wholly wrong, that their moral charone where the question of paternity acter was atrocious, and taught them was so frequently unanswerable.

"The habits of the people were ex- racial death, make an interesting tremely licentious," writes a chron-study. It is interesting at least to pericler, imbued with the spirit of the sons who are not of "missionary famispiritual conquest of the pagans by lies" resident in Hawaii and under an the Anglo-Saxon with his sturdy vir- everlasting moral obligation to vinditues of honesty, thrift and industry cate the white man's occupancy of the and his moral austerity, "but this state sugar lands. of things was greatly altered by the missionaries."

altered is indicated by figures less hopeful than the reports of the missionaries. A half million light-hearted. pleasure-loving, sport-loving, singing, garland weaving, athletic, aquatic, poses. The braced gambrel roof, such | the west or the east would have to shockingly idle and care-free Kanakas before a burning sun.

"In spite of moral and material progress," says the chronicler, "in spite of better food, better clothing, better houses and many other advan-"because of," but how shall the Anglo- ville Leader.

The restoration of their ancient temples would be commendable. It would How greatly the state of things was give Hawaii an added attraction for tourists. That is a matter in which the Honolulu promotion committee cannot fail to be interested.

scure insular gods; a people whose

a better way of life which proved to be

Not Neutral. Patriotic Belligerent-How are you going to describe and comment on this Bffair?

Press Writer-I am going to tell all important facts and put the blame where it belongs.

Patriotic Belligerent - There; 1 tages of civilization, the race is dying knew all the time that you were bitout." "In spite of" should have been | terly prejudiced against us!-Long-

"Treasure Island," Stevenson Himself Sald, "Seemed to Me Like My Right Eye."

Stevenson's "Treasure Island" has

as sin; it seemed to me like my right his own father, who "caught fire at | er kept its place by cutting down its

ishness of his original nature. life he put himself to sleep with, dealt perpetually with ships, roadside inns. robbers, old sailors and commercial

travelers before the era of steam. "He never finished one of these romances; the lucky man did not rehe recognized something kindred to at everybody I met on the street,"

FAVORITE WORK OF AUTHOR his imagination; it was his kind of picturesqueness."

Through the Solid Rock. Ogden canyon, a deep cleft through the towering Wasatch mountains, overlooking the Great Salt lake, is one been chosen by Louis Rhead for this of nature's show places, cut in the year's contribution to his illustrated solld rock by the river which runs edition of children's classics. It has through it, the rushing water, from been dramatized for the Bandbox the prehistoric times, carrying quantities ater, relates the New York Telegram. of sand and gravel which simply filed All this recalls what Stevenson him- out the present wonderful canyon. Ogself thought of his famous story. "It den river was flowing west along its seemed to me," he said, "as original present course before the lofty Wasatch mountains came into existence. The raising of the mountains went on He relates how he read it aloud to slowly for ages, so slowly that the rivonce with all the romance and child- ever-rising bed. In no other way can scientists rationally account for a riv-"His stories, that every night of his | er rising on one side of the range and flowing directly across it.

What Bothered Jay. Abher-Well, Jay, how d'ye like # up t' the city?" Jay-"Aw, it was all right enough most ways, but what quire to! But in "Treasure Island" bothered me most was tryin' to look

NATHANIEL C. FOWLER, Jr. THE RESIDENCE OF THE PARTY OF T TO ANY OF THE PROPERTY OF THE

(Copyright, 1915, by the McClure Newspaper Syndicate.) THE BEST PLACE.

The mountain top is small. There without the winecup bardly room enough there for the to pieces.

ng and for harvesting. man may be able to attach himself list of dinner guests. to the mountain ton

I am not asking you, young plains; but I am attempting to picture the dangers of steen climbing. and the liability of not being able to find a foothold at the top

Hetter, far better, be a good tiller of the soil down in the green valley than starve among the mountain's rocks

In these days of strenuous business, of liberal education, and of opportunity, the old adage that "there is always room at the top" is not as true as it used to be, for, even though there may be room at the very top. one must take fearful chances in climbing, and he will meet strenuous men en route, ready and anxious to win, not only by advancing themselves, but by pushing others down.

The tendency to go beyond one's ability, to occupy positions unnatural and difficult to hold, is responsible for many a failure, and has ruined many men who would have been successful had they been contented and industrious, with good prospect of prosper-

Ambition should be made of sterner stuff than that which drives a man out of himself into unknown regions, or into places too high for him to gain a foothold, a footing which, even if he does gain it, he may be unable to

It is your duty to do your best, to age rather than to cramp ambition, to use common sense in the making of yourself, that brand of good sense which does not allow you to stay beow your level and which will prevent you from striving to go beyond it

when, if they had remained at home. making the best of their opportunimore to themselves and to the world.

Where you are, unless it is below the surface, may be the best place in which for you to work and to stay, Certainly, you should not allow yourself to leave your base of operations until you are sure that where you are is not the place for you to be in, and until you know of a location within the probable scope of your capacity. Beware of the top, unless there is a safe road leading to it.

SOCIETY.

"I am not in society this winter, says a young society woman. "I am too busy to go into society," remarks

a voung man. What is "society" anyway, the soclety about which the foregoing was spoken? Really, I don't know, and the three big dictionaries refuse to enlighten me. At a guess, I should say that probably the young people quoted refer to the collection of persons they meet when they go out, when they are away from home, at balls, parties, and other invitation functions, and not necessarily to the individuals whom they visit. Perhaps they are unfortunate enough to belong to some alleged exclusive form or society, or to some clique or collection of conceited people, who, because they don't know where they stand, assume to stand for something about which they know nothing.

Thousands, yes, hundreds of thousands, of young people have injured their presents and discounted their futures by going into what they call 'society." Yes, many men and women have sacrificed their souls upon the altar of "society."

Young people should have friends. they should not be bookworms or gle, they should exchange experiand other games; but all this does not mean "going into society," for "soci- of Europeans.

ety" is commonly understood as siteply another word for excuss, with or

It is a significant fact that our great aw who reach its height; and, unless | merch at princes, our men of prodithose who do keep a firm foothold, gious intellect, our famous discover they may be pushed off and dashed ers and scientists, our men of mark in every walk of life, care more for The way to the mountain top is sociability than for society, and not steep and rugged, the rocks are sup- one in a hundred of them is in "so ery, and the path is full of landslides. clety." They live natural lives, make The valley is broad and fertile, and friends among their hind, and enjoy there is room enough there for plant, social intercourse. They don't "care a fig" whether Mrs Tone favites them The ordinary man can earn his liv. to her most exclusive ball, or whether ing in the valley; the extraordinary Mr. Highbrow includes them in his

Many men of wealth, and more men who haven't any, sacrifice the vitality not to travel upward, nor am I sug. of life to get into "society," and when gesting that you forever remain on the they get in they spend haif of their time keeping in. When they become old enough to know better, they go out into Nature's out-of-doors, breathe the fresh air, and mentally, and some times physically, kick themselves for the folly of their silly ambition.

Don't worry about finding your "so ciety" level. Your level will come to you, and any level you try to reach which is either above or below your proper sphere, is disastrous

Bear in mind, young man and young woman, that mere money, the ability to dance the tango, and the capacity for small talk, are not keys which will unlock the door of good society.

If your ancestors came here in the overcrowded Mayflower, or your sev eral times removed grandfather chased Indians, remember that you may not be any better than other peo ple with a bazy past, for the whole world feeds on the same kind of meat, sleeps in similar beds and wears much alike clothes, if it can get them

"Society," as it runs, starts from nowhere and ends in the Land of

Fighters Who Never See a Battle. During a sea fight the engine-room men tend the great engines of a battleship with all the care that they would bestow upon the same delicate yet

mighty mechanism in time of peace, make the most of yourself, to encour. roaming listlessly, yet with a definite purpose, around the engine room with oll cans in hand, bestowing drops of lubricant here and there as required. Theirs and the stokers' is almost-not quite-the hardest part of the whole grim drama of a naval battle, for they Thousands of men move from where are absolutely cut of from the fight. they are, dissatisfied and disgruntled, and are only cognizant of it by the maintaining the records which they and enter new and unknown fields, quivering of their ship as the great turrets over their heads fire, or as the enemy's shells thud against the is the happiest feature in the business ties. they would have been worth armor, or when some stray shot finds survey of the whole Dominion for 1915 its way through the stell wall and the and in the outlook for 1916 .- Adverbunkers to the boilers. Such an event blends a whole stokehold in one freazied orgy of death-death by exploding shell and scattering fragments of steel; death by awful wounds from flying, burning coals, or death by scalding, hissing, blinding steam as

Boy Critics.

For many years the boys of Trinity college, Dublin, made and unmade the reputation of operatic stars. They always sat in the highest gallery, and were recognized as the real critica of an opera. "I remember," says Barton McGuckin, the well-known English tenor, "there was a fellow, Thomasi or some such name, whose career was blasted by a witty gallery boy. Thomasi was anything but graceful. He had but one gesture, which consisted in bringing first one, then the other hand to his heart and letting it sang an Itali love song, working his arms as described. When he finished a voice from the gallery broke the siain't mooch of a singer, but I'll wager dience screamed with delight. Thomasi had to leave the stage.

Narcotics in Egypt.

The limited field in Egypt for the sale of manufactured tobacco other than cigarettes would hardly warrant its manufacture there on a large scale. The native smokes cigarettes and tombac. Tombac is a mixture of tobacco and other ingredients, and is der disorders. smoked in the water pipe. The local Greeks and Italians, of whom there room hermits. They should intermin are large colonies, smoke cigarettes and the cheaper grades of cigars. The ences, play games of conversation, higher grades of cigars and pipe to bacco are smoked by the better class | plications.

Fits in With the Spirit of the Times, and So, of Course, Is Given a Welcome.

It is the fashion to attribute to the automobile and the motion picture all social phenomena not otherwise accounted for. The former has undoubtedly increased our national restlessness, and it has robbed the evening lamp of its cozy bookish intimacy. The screen drama makes possible the "reading" of a story with the minimum amount of effort. A generation bred upon the movies will be impatient of the tedious methods of writers who cannot transform character by a click of the camera, but require at least 400 pages to turn the trick. It is doubt ful whether any of the quasi-historical novels that flourished 15 or 20 years ago and broke a succession of bestselling records would meet with any thing approximating the same amiable reception if launched today. A trained scenario writer, unembarrassed by literary standards and intent upon nothing but action, can best the melodra | about small things .- Selected.

WHERE THE MOVIE SCORES | matic novelist at his own game every time. A copyright novel of adventure cannot compete with the same story at five or ten cents as presented in the epileptic drama, where it lays no burden upon the beholder's visualizing sense. The recourses of the screen drama for creating thrills are inexhaustible; it draws upon the heavens above, the earth beneath, and the waters under the earth; and as nothing that can be pictured can be untrue. the screen has also the great advantage of plausibility.-Meredith Nicholson, in Atlantic Monthly.

Scientific Improvement.

A chemical hygrometer, said to be much superior to the psychrometer for measuring relative humidity, provides means of determining the moisture content of the air by volume measurements before and after contact with sulphuric acid, which completely absorbs the water vapor present in one contact. A reading can be made ir eas than two minutes.

Make it your sabit not to be critical

## TRADE REVIVAL IN WESTERN CANADA

Not a Myth but an Actuality Shown in the Returns of Agricultural Statistics and Every Department of Trade and Commerce.

The trade revival in Manitoba, Saskatchewan and Alberta is an actuality and not a myth. There is today a spirit of optimism in the air, just as two years ago there prevalled the op-

posite spirit of pessimism. A general trade revival has been felt in every department of business in the Prairie Provinces. The agriculturists are in better shape than they have ever been before in their lives. No farmers of any country are in better financial condition and in a more general state of prosperity than are the farmers of Manitoba, Saskatchewan and Alberta. The farmers have harvested a record crop-a crop which enriches them to the extent of something over \$400,000,000.

In the cities the prosperity of the country has been reflected, Everywhere business is on the hustle. The wholesalers and the retallers and the implement dealers find business good. The banks and other collection houses find collections satisfactory, and finan-cial men declare that westerners are paying up their debts. In Winnipeg the bank clearings have been the largest in history, exceeding some weeks the figures of Montreal and Toronto. The grain shipments have been the biggest in the history of Winnipeg and in the history of the twin ports, Fort William and Port Arthur. The mail order houses have had a big year, the rush of fall orders exceeding all previous years and taxing the capacity of these establishments, whose most sanguine expectations have been exceeded by the actual business done.

The tide has turned in western Canada. The people of the West are rorging ahead, forging ahead in actual production and in creation of wealth, giving generously to charitable and other funds, paying up their back debts, while going along carefully as regards any creation of new debts. They are economizing but not scrimping, acting cautiously but not miserly, The financial heads of eastern Canada, of the United States and of Europe are no longer criticizing western Canada: rather they are unstintedly offering their praise and their mpliments. The financial press recognizes that the tide has turned in western Canada. and it has been published to the world.

The condition of western Canada at the close of 1915 is one of optimistic prosperity, backed by the same determination of western people to go on increasing their productiveness and have already established.

The trade revival of western Canada tisement.

Tit for Tat.

The young couple were dawdling over a late breakfast after a night at an ultra smart party. "Was it you I kissed in the con-

the water tubes burst all around them. servatory last night?" hubby inquired. She looked at him reminiscently: 'About what time was it ""

## TAKE SALTS TO FLUSH KIDNEYS IF BACK HURTS

Says Too Much Meat Forms Uric Acid Which Clogs the Kidneys and Irritates the Bladder.

Most folks forget that the kidneys, like the bowels, get sluggish and clogged and need a flushing occasionally, else we have backache and dull misery fly back straight before him. It was in the kidney region, severe headvery much like the sort of motion a aches, rheumatic twinges, torpid liver, man would make it deep water. He acid stomach, sleeplessness and all

sorts of bladder disorders. You simply must keep your kidneys active and clean, and the moment you lence: "Ah, Misther Toomasi, you feel an ache or pain in the kidney region, get about four ounces of Jad ye'd make a foine swimmer." The au- Salts from any good drug store here, take a tablespoonful in a glass of water before breakfast for a few days and your kidneys will then act fine. This famous salts is made from the acid of grapes and lemon juice, combined with lithia, and is harmless to flush clogged kidneys and stimulate them to normal activity. It also neutralizes the acids in the urine so it no longer irritates, thus ending blad-

Jad Salts is harmless; inexpensive; makes a delightful effervescent lithiawater drink which everybody should take now and then to keep their kidnevs clean, thus avoiding serious com-

A well-known local druggist says he sells lots of Jad Salts to folks who believe in overcoming kidney trouble while it is only trouble.-Adv.

Familiar Surroundings. Grace-I've been trying for years to

get my brother to take a vacation. Harry-And he won't do it, eh? Grace-No; says he'd be lonesome away from his work. He's a chiropo-

dist, you know. Harry-A chiropodist? Why don't you suggest his spending a few days at the foot of a mountain?

For a really fine coffee at a moderate price, drink Denison's Seminole Brand, 35c the lb., in sealed cans.

Only one merchant in each town sells Seminole. If your grocer isn't the one, write the Denison Coffee Co., Chicago, for a souvenir and the name of your Seminole dealer. Buy the 3 lb. Canister Can for \$1.00.

-Adv. After a man has had occasion to em-

ploy a first-class lawyer you can't tell him that talk is cheap.

Missouri's law code is to be revised by a commission of 15 persons.