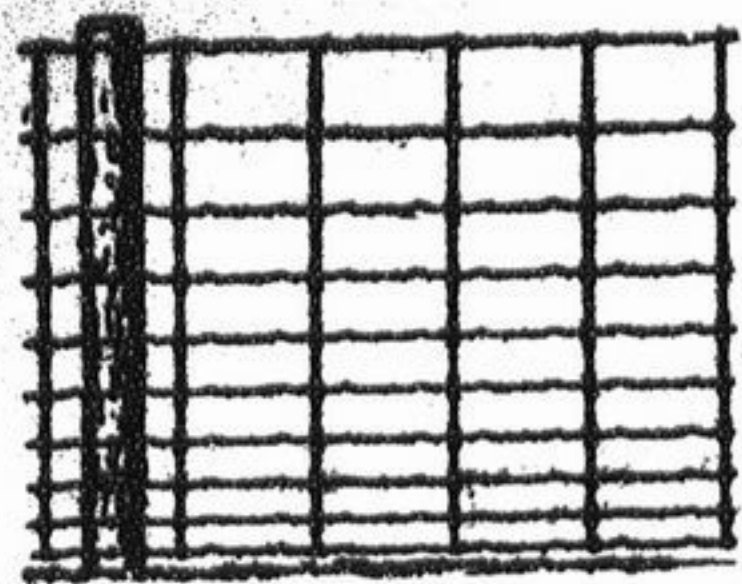


## If You Are Going to Paint



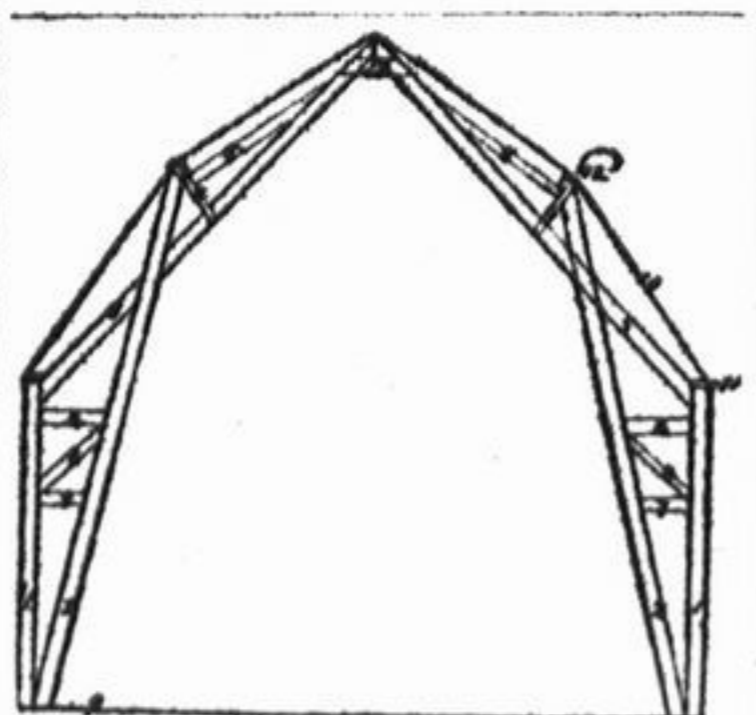
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## MERTZ AND MOCHEL

**Roof on Plank Frame.**  
The sort of frame here pictured is called the plank system and is a hip roof braced from the sill and plates without post. The sketch explains itself, but to make certain that no mistake will occur a key to the numbers is given. No. 1 is the main side post built of two pieces of 2 in. x 8 in.; No. 2, purline post built of two pieces 2 in. x 8 in.; No. 3, purline roof support, one piece 2 in. x 8 in.—10 in.; No. 4, main tie, one piece, 2 in. x 3 in.; No. 5, sub-support, one piece, 2 in. x 6 in.; No. 6, stay, two pieces, 2 in. x 4 in.; No. 7, tie, 2 in. x 8 in., or 2 in. x 6 in.; No. 8, strut, 2 in. x 6 in.; No. 9, sill or main cross tie, two pieces, 2 in. x 8 in.; No. 10, line showing pitch of roof; No. 11, main



plate, two pieces—top piece, one piece 2 in. x 19 in., and side piece, 2 in. x 8 in.; No. 12, purline plate, two pieces, 2 in. x 8 in.; No. 13, collar tie, 2 in. x 10 in., or 12 in.

**Dry Potatoes for Food.**  
Consul Frank S. Hannah sends a report to the Department of Commerce and Labor relative to some recent experiments in the drying of potatoes under the auspices of the German Imperial Interior Department, which may offer a new field for farmers. The potatoes are reduced by this process to about one-quarter of their original weight, and can be kept in a good condition in this compressed form for an indefinite length of time. The military authorities have made thorough experiments with this product and have become convinced that its nutritious value is fully equal to that of corn, and that the dried potatoes can take the place of one-third of the former ration of oats. The fact that the potatoes are reduced to one-fourth of their original weight brings about a corresponding reduction in the price of freight, so that it will pay to grow more potatoes than has formerly been the case.—Michigan Farmer.

**The Plain Farmer.**  
Speaking of farmers' institutes, one man says: "I would like to know what is in the mind of the working farmer in felt boots, who sits in the back seat." He adds: "A few people who are good talkers praise the work, but what about the silent ones who listen and say nothing?"  
The Rural New Yorker, commenting on these statements, says: "The institute speakers can not do any wiser thing than to learn how to encourage and keep just this class of farmers. The retired farmers and successful men who make up a good share of the audience are well able to take care of themselves. It is pleasant to entertain them, and their praise gives a man a thrill of satisfaction. It is a truer service to the State, however, to gain the confidence of the plain farmer and help him."

**The Work Horse in Summer.**  
Working horses from grass has never been our way, although a great many do it and keep their teams in very good fix. When there is only light work for a few days, our horses have the run of good pasture when not in the harness, but most of the time they are in the barn, where they get grain and bright hay three times a day. It seems to us they are better able to stand hot weather when on a hay ration, with grain, than when they get grain and green grass for their roughness. It probably does no more harm to a horse to sweat than it does a person. It is usually certain that when a horse is sweating freely he is taking no hurt, but a "grass sweat" can be avoided by feeding hay instead.—Twentieth Century Farmer.

**Dry Farming Fruit.**  
Dry farm fruit promises to yield an abundant crop this year in Colorado, according to E. R. Parsons, of Parker, Colo., one of the most successful dry farmers in that State. Mr. Parsons created much interest in the subject of fruit growing on non-irrigated land when he described his orchard in an address at the third dry farming congress at Cheyenne, and has promised to send an exhibit of his dry farm horticultural products to the international exposition of dry farm products when the dry farming congress holds its fourth session at Billings, Mont., October 26, 27 and 28 next.

**Spiced Currants.**  
Spiced currants make an excellent relish to serve with meats. Allow to each pound of the fruit a pound of sugar. Make the syrup in the proportion of one pint of vinegar to each four pounds of sugar, two teaspoonfuls each of mace, cinnamon and allspice, a teaspoonful each of cloves and salt. When boiling add the currants, cook twenty minutes and put up in glasses the same as jelly.

**The Flavor of Butter.**  
It has been a generally accepted theory among teachers and writers on dairy subjects that the production of good butter necessitates the development of a certain amount of acid in the cream, for two reasons—to develop a desirable flavor and to improve the keeping quality. Recent investigations by the United States Department of Agriculture indicate, however, that butter made from pasteurized sweet cream has better keeping qualities and remains free from objectionable flavors for a longer time than butter made from sour cream.

**Farmers Must Watch the Crop.**  
In order to determine what elements of plant food are deficient in a soil, it is necessary to carefully study the growing crop. Many farmers seem to be of the opinion that a chemical analysis of the soil will show the amount of plant food contained therein. This, however, is a mistaken idea. The chemist can only determine approximately the amount of nitrogen, phosphoric acid and potash in a soil, without specifically showing what proportion of these elements can be taken up by the growing plant. A large percentage of these elements is not available to plant food. Hence the necessity for them in an available form. We must turn, then, to the crop, and by watching it closely during its growth and by a careful examination when matured, see whether the soil is deficient in plant food and what elements are lacking.

**Care of Settling Hens.**  
When sitting the hens in order to keep the lice from bothering them, a good plan is to fill the nest boxes with wood shavings, preferably those that have some odor about them. Cedar shavings are excellent and so are cedar twigs, and the hens will appreciate the nest of such materials. Lice are a great drawback to a hen when she is on the nest, and many times they compel the sitter to leave her nest when she does not desire, and if there is anything the poultryman can do to keep the sitting hen comfortable he will be amply repaid for it in the end. The shavings are inexpensive and are easily destroyed. They do not pack hard in the boxes and are quite comfortable for the hen. Try some of them when sitting a hen and see how useful they really are.—Rural World.

**Live Stock and Prosperity.**  
Live stock is the chief element of agricultural prosperity. It is the foundation upon which both the present and future profits are established. We boast of our great wheat and corn crops, and we have a reason for so doing, but if we depend upon them alone we rob ourselves and our children by selling off the fertility of the soil with each year's crop. For many years the soil will continue to yield their crops, but they will get poorer and finally fail unless they are fed. How much better to make your farm richer instead of poorer; to get the benefits of the increased crops during your own lifetime and then leave a rich and valuable farm to your children after you have done with it. Live stock will do it as nothing else can.—Kansas Farmer.

**A Celery Spray.**  
Celery blight can be controlled by spraying with ammoniacal carbonate of copper. To make this, dissolve 3 ounces copper carbonate in a pint of ammonia, and add 25 gallons of water. To make copper carbonate, dissolve 5 pounds copper sulphate (blue vitriol) in 5 gallons of water, also 5 pounds carbonate of soda in 5 gallons of water. Mix the two solutions slowly, stirring well. Let the mixture stand until next day to settle, after which pour off the liquid. Pour on 10 gallons of water, let stand until next day, and repeat the operation, after which strain and dry the blue powder, which is the copper carbonate.

**Calculating Interest.**  
One of the shortest and simplest methods known for calculating interest is to multiply the principal by the number of days and divide as follows:  
For 4 per cent, divide by 90.  
For 5 per cent, divide by 72.  
For 6 per cent, divide by 60.  
For 7 per cent, divide by 52.  
For 8 per cent, divide by 45.  
Then point off four decimal places. For instance, to find interest on \$300 for 92 days at 8 per cent, multiply \$300 by 92, divide by 45 and point off four decimal places. The result is \$7.36.

**To Get Rid of Vermin.**  
My dogs got lousy last year before I knew it. I could not afford to build a new dipping tank, so I put into three quarts of hot soapuds one-half pint of kerosene oil, boiled and stirred vigorously for ten minutes. When the emulsion had cooled sufficiently I poured it through a sprinkling can along the backs and over the heads of the pigs. The ticks and lice quickly disappeared, but I repeated the dose twice more during the summer.—J. G. Barnes, Indiana.

**Fruit in Sheep.**  
There is one thing the farmer can not afford to overlook in sheep raising, and that is thrift. Thrift means health, gain in quality, quantity and productiveness, the elements out of which the profits are derived. It must be the first object of the owner to keep his sheep in thriving condition. The quality of the wool, as well as the quantity, and the general productiveness of the flock make this requirement imperative.

**Bogus Butter.**  
A recipe for making "fancy creamery butter"—of a kind—came out in the course of the prosecution of an oleomargarine case in the United States District Court in Chicago. It reads: "Take thirty pounds of white oleomargarine, sixty pounds of poor-quality butter and thirty pounds of water; mix well and add coloring matter to suit." Four truckloads of the stuff made after this formula were seized by government officers.

**There Is Profit in Sage.**  
Twenty-five cents' worth of sage seed will furnish about 1,000 plants. Enough sage can be picked the first year to pay for all the labor of sowing and picking the sage. Early in the spring the plants should be removed, set in rows 2 feet apart one way and half this distance the other. If the plants are planted in good soil and properly cultivated, they can be picked three times each year for several years.

## MAKES WORLD'S RECORD.

**Orville Wright Remains in Air One Hour and Twelve Minutes.**  
The world's aeroplane record for two men as to both time and distance, was broken Tuesday evening in a beautiful flight at Washington, D. C., of 1:12:40—upwards of fifty miles and at a speed averaging about forty miles an hour—by Orville Wright at Fort Myer, with Lieut. Frank P. Lahm of the army signal corps as passenger. The former record was made last year by the aviator's brother, Wilbur, joint inventor with him of the machine in which both achievements were performed at Le Mans, France, with Prof. Patoleve of the French Institute as passenger. The flight was 1:09:31. Wilbur was an eager spectator of Tuesday's flight by his brother.

"You just scotched your brother's record without really damaging it much," remarked a newspaper man to Orville after the flight. "That's all we meant to do," replied Orville with a smile, which his big brother appreciatively duplicated.

## MOORS KILL SPANIARDS.

**Tribesmen Attack Before Dawn and Are Repelled After Furious Battle.**  
An official statement concerning the fight between the Spaniards and the Kabyle tribesmen says that before dawn Friday morning the Moors opened a general attack on the Spanish advanced position at Mellilla, Morocco, concentrating their efforts against Sidi Musa and the garrison at Cape Moreno. The fighting was of the most furious character, but a sortie by six companies of Spanish infantry and a light field battery was successful and the enemy fell back two kilometers. In the fighting a Spanish colonel and three other officers were killed and thirteen wounded. The number of casualties among the enlisted men is not known. Newly detailed troops have been hurried to the front.

**CHECKS DEPORTING OF ALIENS.**  
Immigration Bureau Reopens Inspectors for Heavy Action.  
"Of late the arresting and deporting of aliens has increased enormously and a tendency is noted in some cases to sacrifice quality of work to quantity. This will not do. There must be no merely superficial inquiry in any cases. Officers must not submit recommendation for arrest upon irresponsible, uninvestigated accusations." This was the sharp re-uke administered in instructions which have just been sent out from Washington by the Bureau of Immigration to all commissioners in charge directing attention to the failure of investigating officers in making thorough preliminary inquiry, especially in cases of alleged violation of the alien contract labor law.

## STEEL CAR STRIKE ENDED.

**Two Thousand Employees of Standard Company Return to Work.**  
The strike at the Standard Steel Car Company's plant at Butler, Pa., was ended Monday when more than 2,000 former employees returned to their work at the company's terms. Seven of the leaders of the strike movement were discharged. Officials of the company state that hereafter American workmen will be given the preference in all departments, particularly in the construction of cars.

**Estimates Wyoming Lands.**  
Approximately 500,000 acres of land in Wyoming has been designated by Acting Secretary of the Interior Pierce as coming within the enlarged homestead act. In its date this makes a total of 11,541,000 acres of land so designated in Wyoming. The land in question is not susceptible of successful irrigation.

**Contractors Found Guilty.**  
Michael J. Mitchell, former purchasing agent for the city, and Thomas F. Maher, a contractor, were found guilty by a jury in the Superior Court in Boston of conspiracy to defraud the City of Boston of \$12,500 by signing contracts calling for excessive prices for flagstones. Sentence was deferred.

**"Adam God" Goes to Prison.**  
"Adam God," who was recently sentenced to twenty-five years in the penitentiary for the murder of Patrolman Michael Mullan, in Kansas City last December, has been taken to the penitentiary in Jefferson City.

**Boat Sinks; Passengers Saved.**  
With a big hole stove in her side and water pouring in, the packet steamer Tacoma was towed from the middle of the Ohio River to shore at Gallipolis, Ohio, in a sinking condition. The boat sank, but the passengers were taken off safely.

**Committee Sidelined at Sentencing.**  
W. S. Kerr, 35 years old, of Key West, Fla., committed suicide at a Colorado Springs sanitarium, by taking carbolic acid. Kerr was despondent because of ill health.

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