down the roof. Some tiles are made with a projection to answer the purpose of the pins. but in continuously machine-made tiles holes and pins are necessary. As each row of tiles is hung, the part to be covered by the sue ceeding tile is plastered with mortar, which is cut or scraped off even with the edge of the f tile; the joints are all broken, and when finished there is no butter to of for effective purposes than a tile l roof: but they are subject to some drawbacks. They are expensive, and require skilled labour to put them on; they to support them; they must be made of so strong a clay as not to chip or shiver with the frest, and they must not travel too for for fe u of breakage. In the old country, even on their good roads, tiles are seldom carried farther than four or five miles. This kind of tile is made by machinery, like drain tiles, but flat instead of circular. The clay must be equal to pottery clay, and one that varities sufficiently to give resistance to the foot. whilst at the same time it must be impervious to the wet. Almost all our Canada claywould have to be washed an 1 chatricted in o a proper fineness and free lon fron lim. stone before they could be used. Lime-tone spoils all baked clay.

There is a cheaper kind of tile, called pantiles, used in the old country; these are waved and curved on one edge, so that in lauging them the curved edge of one covers the straight edge of the next, and no break of joint is required. These pantiles are also laid in mortar, and where made of good in iterials and of sufficient strength, form a most excellent roof. Being all curved, they form a kind of series of spouls, extending from top of the roof to the bottom, each channel carrying its own quota of rain to the eaves. For covering farm buildings in the old country they dispense with the morter; but for all house purposes the mortar is necessary Many old houses in London, England, are pantiled.

There is another kind of tile, heavier and stronger, flat, with the edges turned up, and the edges are covered by narrower tiles fitting one into the other. These tiles, like all others, lap over one another, but they do not break joint. Unlike the pantiles, the joints are covered by a separate formation. None of the tiled roofs will bear people on them with safety, and one of the most serious offences which boys can commit where they are used. is climbing on and over the roofs.

All tiles are burned in kilns, like bricks. Sometimes when bricks are burned in clamps (as is usually the case in Canada) the tiles are burned in the interior of the kiln, and near the arches, where they will be exposed to a vitrifying heat. They are packed in sixes on their edges, and each separat · parcel angling a little over the others, so as to prevent slip ping and crushing.

We are not far from the tiling age, and in a very little while tile kilns will be a very common institution. We shall leave other materials of roof covering for a future occasion.

## Mouschold.

## Preserving Ice.

It would be well if those farmers who intend to make butter while gress is plenty. took a little pains to save some ice for sumhouses have been greatly modified of late! years, and it is found that ice can be kept i are beavy, and a strong frame is necessary just as well in any building as in an expensively constructed ice house. Fix up a corner 12 feet square in the woolshed, or any other oubuilding that can be spaced, or put up a small house near the dairy for the purpose. It may be under by milling with straw, cover the thor of the building. which may be bure ear h, with first about a cor of said, then by rails or poles on it. and cover them with a thick layer of straw. cut your ice in blocks of about 2 feet square, -paces with pounded ice, and pour in some water to make it solid. Leave a space of about two feet between the wall and the ice all round, and when the ice is all in, fill that through the roof for ventilation. When ire is to be taken out, shut the door when you go in, remove the straw on top of the ice. take out a block and cover up with straw again before opening the door to take out the ice. Some prefer to have the house made partly in a hill side facing the north, with the roof only above ground. Stone walls are preferable to boards, but the main thing is to have straw enough; good rye straw is best; clean chaff is still better, if enough can be had; sawdust or tan bark will answer the purpose of protecting ice equally well, and would be best if they can be readily procured, as the same material can be used several years in succession, while straw requires to be renewed with each crop of ice put in the house. If the building is too much exposed to the sun, plant come evergreens on the south side, or place green pine boughs on the roof in summer. Where the cellar is large and but little ice is needed, a small ice room may be made in it, the floor to be dug 18 inches below the level of the cellar, and the walls made of brick one brick thick; the poles on which the floor of straw is taid are placed at the level of the cellar floor, leaving the space below for drainage of the water from ice that may melt, and the ice, when packed in, need only have a space of one foot between it and the walls, to be use the suds when boiling; let them be luke-

must be a window for ventilation, which may also be made large enough to allow of the blocks of ice being put through it when filling up the room. The goodness of the ice will depend greatly on the time it is taken into the ice house. If the ice is very hard and solid, and the weather has been very cold for some time previously to to being put up, it will keep much better than if it is taken up mer use. The ideas on the subject of ice in mild weather, or af er a thaw has set in. The lower the temperature at which ice is formed, the longer it will keep.

> Kenwyo Farm. J. M.

## Vine ar from Maple Sap.

To the Editor.

Sig.-I noticed in your December number rough boards close together on apright an article headed "Economical Vinegar," posts; on the top of the posts Ley a sill, and the writer of which seems to have forgotten put poles or boards across from wall to wall; that vinegar could be made of other material then put or the rafters; make a pent roof. Ithan apples oreider. He says that in a new Fill the space between the poles and roof country, where fruit is scarce, it becomes a matter of no small importance that all should be made the best of. We all like good purel vinegar, and can be sure of it only when maaufactured from apples." I think every back settler, living on timbered land where maple and pile them up on the straw, as closely timber is grawing, has ample means for makpacked together as you can, filling up the ingequally as good if not better vinegar than can be made from cider; that is, vinegar made of maple sap, which flows freely in April and May. Take the last runs after the buds begin to swell and the sap becomes unfit for -pace with clean dry straw, tramped in: cov r | sugar; save up all the remnants of sap, and the top with loos straw, and have a pipe boil, say two into one, and strain into a tub or vessel of some kind to cool, then add yeast sufficient to cause fermentation. After fermenting, remove, and put it in a vinegar cask, leaving all settlings out. Set in a warm place. The bung should be left out, or what is better, cut a squarehole large enough to dip out vinegar when wanted, cover with thin cloth and a piece of board. Some brown paper should be added to make mother, or you can procure some from your neighbour's vinegar barrel, and add to your vinegar, in order to keep up a plentiful supply. The barrel should be filled by the addition of suitable materials as vinegar is taken out, such as coldtea with a little sugar, or any sweet slops. The juice of the rhubarb plant is excellent foodfor vinegar Oar vinegar began to get low last year on account of having to build. My wife went to the garden and got some rhubath stalks, sliced them fine, and soaked them in soft water over night, then drained off the liquor, and added one quart of molasses to three or four gullons of liquor, and she says she never had better vinegar than it A FARMER.

PREVENTION OF SHRINKING IN FLANNELS.-A correspondent of the London Field says :-"In washing flannels, or other woollen articles, have the suds ready prepared, by boiling up and so dissolving small pieces of soap in rain water, without soda: but do not filled with chaff, sawdust or straw. There warm only when the atticles are put in.