all for other roots and grasses. The next thing to consider is, how to manage thistle growing about sturnps and fences T'boy must be cut wille a spud closo to the ground at the end of June, and again at the beginning of September, and be cateful not to leare any leares to ripen, and these also will then disappear. This work night be let by little eontracta to jurenile members of the fumily; or this lailing. to neighbors children, and this too without depriving them of schooling. Any boy or girl, ten yemrs and uprards, can betaught, the uso of a spud in fro minntes.
The aioro (may I call it asystem) put into rigid practice will prove the true panacea for the ail in question, and other perenninds will fare no bet.er. No more appeals to the moon by the magician or cachanter; let her movo silently iu her orbit, without blaming or praisiug ber, as having any lot or part in the matter, sare only, when the farmer bat taken his rcpose after tea, he may sally forth and (it may be half a dozen in family) all with spude in hand, for halfan hour, and attack some secret patch of the thistles under the enchanting light of the much abused moon.
In the spring, when the clover lay is quite dry, male a barrow of brush, or buslies, like an cquilateral triangle, and with one horso harrow trice, and cross-ways. This will crumble to pieces any remain ing lumps, and leare the surface renewed, lor which the clover will express itself grateful, after the firs warm shower.

PĆBLICOLA.

## Contrivances in Rural Economy.

## bac-hol.ders.

Faryers who handle mucls grain and who cart uff many bundred busbels annually, would find it a matter both of convenience and economy, to proride a simple stand to hold each lag while it is filled with the scoop shorel-instead of the more frequent practice of taking the time of a man or boy to do this Fork. These bag.holders are made in various mays.


Fio. 1.


Fic. 2.

One mode is to drive a fev sharp nails into the top of a light barrel open at both ends; hitch the top of the bag on these nails while it hangs within the barrel resting on the floor, with its mouth open ready for flling. When filled, it is tied and the barrel lifted off. A better way is to provide a board abont a foot wide and eighteen inches long (fig. 1), which serres as a base, and on which the bag stands. Cprights or


Fio. 3.
standitde with sherp points at the top hold the bag opon until it is alled. These uprights are variously conatrected. One mode is to take a piece of two fach plank for the bottom, and bore two boles, or one at each corner on the same side, and insort upright or forked aticks firmly into these holes, as shown in ig. 2. Another mode is to nail thin bourds on the
opposite siden of the plank base, sawing a fork in the top of each, 20 at to form sharp points for boluing the mouth of the bag. If these hoards ate so nailed on to the base that they shall spread a little towards the lop, and being thin enough to lave some spring to them, they may be sllghtly bent inward when the bag is attached, and apringing out again will hold it the more firmly. One of the best, frmest and roost convenient supports, admitting the ready removal of the filled bag, is representel in fig. 3. It has a board bollom, on two corners of w hich, uprigit boards are nailed as athown in the cut. colnnected and braced by a borizontal board at the top. Through this board are driven nails, projecting upwards, and to which the bag is attached. This support is light, and the uprights being braced, are not easily broken off. By first meanuring the height of a full bag, the right dimensions may be obtained.

## ssow-rlotor.

The decp snow throughout the country the past winter, made a great deal of hard labour in shoveling by hand. A simple nnow-plongh may be made hy any farmer in an hour or two, and will open paths by means of a single horse, with case and rapiditr. The height of a plough may vary with the depth of the snow, which being rery uncertain, it should be sufficient. A. font will answer for nearly all casue.


Fig. 4.
Take tow pieces of plank or thick beard, a foot rite and about fire feet long, more or less, dress off one end of cach in a wedge form on one side, so that When these two dressed fisers are placed together, the two pieces will direrge like a letter; (fig. 4.) A Fidth of thret feet behind will be usually sumicient, and a board may be placed within, extending across $s 0$ as to form a brace by nailing. Sometimes a joint is made at the formard end, and cross pieces of different lengths keyed in, to make the plough wider or narrower as may be desired. A hook is attached to the forward end for the winifletree, and a box seat placed on the top for the dricer. By increasing or diminish ing the distance between the hook and whiffetree, the forward end will run high or low as the nature of the snow may require. The ariver has only to kecp the horse in the right place, slightly guiding the plough by throwing his reight left or right. This plough may be used around the bouse, to front gate, to baras and other out-buildings, along village streets and elsewhere. A finishing touch may be given to these paths by band when tesirable.

## FASTENLSG OREN BARN-DOORS.

Good barns are alfays supplied with fastenings to hold the doors while shut; but very few owners ever think of securing them while open, and as a consequence, strong winds often hlow them about, slamming them against the walls or other obsiructions, injuring or splitting ttem, and sometimes breaking them down from their hinges. Different modes are adopted for securing them while open. Doors which are merely fantened by a hook and staple, are casily


Fio. 6.
tantoued open by inserting snother staple at the plece where the edge of tho door striken, to receive the hook and hold it fast. Another mode, (describod in the American Agriculturist,) is to prop the door
open hy means of a stick provided for the parpose, an inch or more in diamoter and three or four feot long, ( $\mathrm{lg} . \mathrm{G}_{3}$ ) which is fastencd to the outer edge of the door by an eye and ataple, the other end resting horizontally in a hook when not in use. Thin ead has a sharp icon point, to prevent it from alipping en the grount or ice. When the door is opened, the atick is placed in the position of a prop by a alngle movement of tho hand; and when again ahut, it is lifed and laid in the look. A third mode, which may be alopted wheren common latch is uned on the door, is to place a second catch at the outer edge of the door, which may receive and hold the latch while the door is open. This is better or catier to manago than either of the others, the latch belig melfrfasteniag in both positions,-Illustratel Annual Register of Rural Affairs.

## A New Food

To the Elitor of Tilf. Canada Farmer.
Sir-I send, for publication in your journal, an account taken from Beli's Weekly Messenger of the 11th February, 1867, of a new food plant, the Sorghum Iartaricum, and in addition, reports reapecting some lour and bread made from the meed of the plant, in London, Ontario.
"The interest excited on the subject of Mr. Hullett's letter must have very much surpassed his expectations, as within a week of its appearance no ferrer thau 20,000 applications were made to him for seed. Some time must necessarily elapse before such a vast number of applications can be answered, but Fo are authorized to say that every person who has Fritten will receive, betore the end of March, at least three or four seeds, the largest number that under the circumstances Srr. Irullett will be able to send."
The following is a portion of Mr. Hulletta letter:-
"The Chinese Sugar Grass should be sown tery thinly indeed, at the end of Narch, haring been previously soaked in lukerarm water for some hours. It grows slowly at first, but very rapidly afterwarda, and attains the jeight of from eight to twelve feot. lts appearance is very gracefnl, having a atraight, tall stalk, marked at intervals with knots or nodes, and from these spring the long, apreading leiveg.
"The seed groms in great bunches upon the eight or ten separate stems which form a tuft at the top of the plant. The crop is ripe about the begining of September, and must then be gathered by hand from the stalks, before it is cut ; the leaves are mext to be carefully stripped off, and dried for fodder, being far superior to the best hay; and lastly, the stems or canes are cut into lengths, and cither used for making wine or sugar, a very large quantity of either being easily made from them.
"The seed is separated from the huak by any ordinary threshing apparatus, and may be ground in the same manner as wheat, but there is no bran, so the Whole is Hour. The bread made from this grain tastes like a plain cake, being richer than wheaten bread, and more palatable.
"For faitening cattle it should be cut green, and is said to posscss marvellous fatting powers; I bad 80 small a quantity that I could not tell whether this was true or no; but I know that all animals prefer this rich, sugary fodder to anything else.
"I had the seed from a friend who is a mianionart in Western China, of which place it is a native ; but it is now much cultivated in America, and I would refer any one wishing for detaila, to a Worts on 'Sorgho Grasses,' by II. Oleatt, published at New York, by Moore \& Co., which contains a mass of laformation on the subject.
(Signed,)
" J. HULLETTT.
"Clanesce: Lodoe, Cosham Mants."
The first of the following extracts is a letter from Mr. J.D. Saunby, of the North Branch Mills, to the editor of the Free Press. The second is a letter of my own on the subject to the same journal.
Flocr rrox Sorabuy.-"Major Brnce brought some sced of the Sorghum Tartaricum to our mally. the other day. I was donbtral if flour could be made from it or not, but as the Major was anxions to hare me grind it, I was resolved to give it a fair trial, and the result was as followe, viz.:-From 21 lbm. of seed, 10 lbs. of flour, 4 lbs. ahorts, and the: remainder in huiky bran, something like buckwheat bran. The abundance of hran may be altifibuted to the fuct that at loant one-third of the moed had not matured; owles, I think, to late sowing. Fad the soced been fully. Irmated at the rate of at lemat 30 lb . per bithel, thit giving $1,800 \mathrm{lbs}$ of fourper acre, at the reat of aity bushels of seed.

