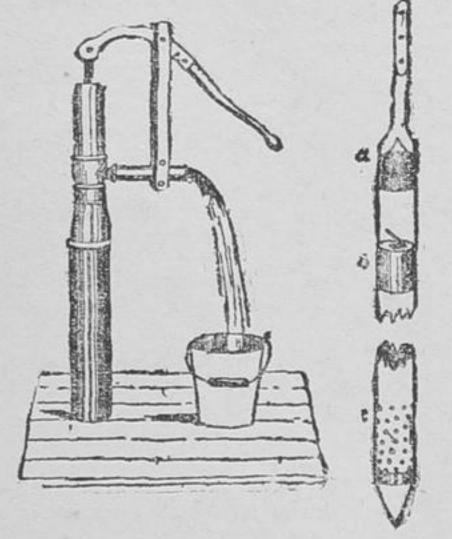
nemade Drive Pump.

A mec nic living near me made a drive pump from about 13 feet of iron pipe two inches in diameter, and a connecting piece for tastening pipe to the side for the spout, to which uprights were attached to hold the handle, as shown in the illustration. He fitted a steel plug (d) to one end of th longest piece of pipe and drilled holes near the end for the inflow of water (c). The pipe was then, with a large wooden mallet, driven down about 10 feet into a sandy



A SIMPLE DRIVE PUMP,

loam, until it had penetrated a laye of sand containing water. To the top of the pipe the cross piece was connected, and valve on top (b). A plunger of hard wood with a hole in the bottom also fitted with a leather flap valve was connected to a handle by an iron strap, and the handle was supported from the spout of the pump on two strips of hard wood bolted fast together. On the piston, or plunger (a), strips of leather are fastened to promote suction. A drive well at first brings up the fine sand and trouble. with the water, but as the sand is pumped outa cavity is formed which holds a barrel or two of water, and in time all the sand near the bottom of the pipe disappears. One advantage the driven well has over a well from mice, toads and insects. Another advantage is its cheapness. The well here described cost only about six dollars completed, and has done good service for several years pumping much water in a dry climate.

Profitable Fall Dairying.

The usual course pursued by dairymen is to turn milch cows upon the aftermath, of the meadows, which the showers of September have stimulated to an abundant growth. While this flush of feed lasts the milk yield is materially increased, and more This advance in richness is due both to the time the cows have passed beyond the parturient period and to the influence of favorable feed. Combined with this we have in the fall cool weather conducive to preserving milk quality, with a consequently improved quality in dairy products. Butter and cheese improve in price, and the autumn is considered a profitable period for the dairy farmer.

While there is no doubt about the im- quences. - Confucius. mediate profit, it is well to look deeper than a casual inspection and see if there is any real profit in this method. Meadows are set apart for producing hay and not for affording pasturage. A good crop of good hay is an essential production of every well-regulated dairy farm. Fall pusturage of meadows without heavy top-dressing of manure means depletion in grass yield for the ensuing season. Cattle will graze the tender succulent rowen very closely, and leave the grass roots unprotected at the advent of winter. This is doubly damaging when so few helds are protected by good woodland wind breaks. As a result these closely cropped meadows are bear or partially so in winter, the snow collecting about the fences in drifts. A thick matting of rowen, every tempest, and invades every zone .if it existed, would then act as a protective mulch, and combined with the snew it held would prevent the extensive freez. ing out of grass roots. I have seen the Theocritus. yield of hay from a fertile meadow reduced one ton per acre in amount in the season tollowing a close fall grazing. Besides removing the protection this method subjects, the land to a double cropping in one season involves a heavy drain on the fertility of

In view of these facts it becomes a grave question whether or not the increase of incone from fall dairing as at present secured amounts to real profit to the milk producer. It is apparent that it is not secured in a legitimate way, and dairymen who regularly practice bleeding their meadows by fall poor. - Euripides. grazing are in reality cheating themselves. The cheat is a grave one entailing damage at the present and weakening the basis of future dairying. If the pasture is not sufficient | channel. - Hazlitt. to maintain a good flow of milk in the fall, which it generally is, soiling crops should be supplied to make up the deficiency.

the soil.

Improving Poor Places in Meadows and Pastures.

patches of greater or less extent that are not nearly as productive as the remainder of the field, though the entire surface is uniformly seeded. These unproductive and useful. - Spottiswoode. places are usually knolls or hillsides, from which the fertility of the soil had been exhausted by washing or cropping. During autumn they can easily be located and heart. brought back to a state of fertility. First apply a good seeding of timothy or other grass seed, and then cover the entire surface half an inch or more deep with well rotted barnyard manure, or a heavy sowing of commercial fertilizer, passing over the spots several times with a spring tooth or harrow. The early fall rains will cause the other seeds to germinate, and the wholesur- blessing who expect them to come without face present a healthy green appearance be- | clouds. fore winter sets in. Frequently a field that | The sea otter is the most valuable of has been into grass for many years is well all furs; \$1,100 have been paid for a single out sweetening as a sauce for the meat. set with moss, in which case scatter seed skin.

over the surface, apply some rich manure, and harrow until the surface looks ragged, thus laying the foundation for an increased growth of herbage, and all at small expense, without replowing the field. These bare spots are not at all pleasant to look at, and do not speak well for the farmer.

Calf Feeding.

There is an impression with many farmers and dairymen, that skim-milk is a rather thin diet for calves; and we see constantly in the dairy papers recommendations that it | should de reinforced with flax seed meal, or jelly made from the ground seed or cake.

So far as the oil or fat is concerned this addition is all right. But flax-seed, and especially the ground cake, is exceelingly rich in protein; and this is just the trouble with the skim-milk. It is deficient, not in protein, but in carbohydrates-fat and starch. The best single addition to skimmilk for calves as soon as they can eat, is corn or oats.

Dairy Granules.

Milk-fat is, commercially, the most important compound in milk. It varies from below 2.5 to over eight per cent. and averages about 3 3-4 per cent. Science has also of fat in rich milk than in poor milk,

That bane of modern business life, destructive competition, affects the diaryman least. He need not fear the market chaser, for the growth of a herd of dariy cattle is not of a season, but of a decade, and those who follow the rises of the market until the drop engulfs all, will never be a competitor in dairying, because he has not the endurance to succeed.

about five feet down a plug was inserted | Did you ever see a covered barnyard? containing a hole fitted with a leather flap | Well, if not you ought to see how the cows enjoy one in cold weather. They can get enough exercise without becoming chilled through and through. It is an easy matter, too, to keep one dry by the use of plenty of straw or leaves, or by frequently drawing out the manure. They are cheap and can generally be put up with but little expense

Whatever churning temperature the butter maker may from time to time decide on, there is one general rule which we believe should be kept in view, and that is the that is dug and walled up is in its freedom useless work of heating the cream by concussion. If the butter "comes" at 58 degrees it is useless to commence at any lower are then nailed all round the edge of the temperature than say 54 degrees. Four square bottom. These sides are made of in the average churn, and it seems to us practical way of heating the cream.

When a station school or farmer makes a record of the quality of the milk of a cow without reference to the quantity, it is only a half fact and thus of little value Three cows are found giving milk testing three, four, five per cent. butter-fat respectively. The lower is poor milk, the higher butter and cheese is produced from a given | richmilk. Butif the cow gives 40 pounds of the quantity of it than earlier in the season. | three per cent. milk in a day it will furnish 1.2 pounds of butter fat; while if the cow giving the rich milk gives but 20 pounds in a third favored "draped lamberquins." a day she will furnish to her owner only one pound of butter-fat.

PEARLS OF TRUTH.

If you would know and not be known, ive in a city, -- Cotton.

When anger rises, think of the conse

A bad book is the worst that it cannot repent .- E. N. Kirk.

One of the ill-effects of cruelty is that it makes the bystander cruel. - Buxton.

will life be fled .- Schiller.

Violence in the voice is often the death rattle of reason in the throat. - Boyes.

The wind never blows fair for that sailor who knows not to what port he is bound .-

We do not live in a world in which a man can afford to be discouraged by trifles. -Blackie.

Bancroft.

Heaven's eternal wisdom has decreed that man should ever stand in need of man. -

object we should never passionately desire and rub every inch of the silk with the it. - Rochefoucauld.

which does not daily hear the steps of its owner in it .- Hindoo Proverb

Not the price that we bargain to pay, but the price that she sets on herself, is the

value of Truth. -Owen Meredith. sure; joy would be joyless, of misfortune free; were we all wealthy, then we were all

Features alone do not run in blood; vices and virtues, genius and folly, are transmitted through the same sure but unseen

The crowd attend the statesman's fiery mind that makes their destiny; but they do | not trace its struggle or its long expectancy. - Lander.

"Have patience," I replied, "ourselves are full of social wrong; and maybe wildest stems, blossom end and core, but leave the In most meadows and pasture fields are dreams are but the needful preludes of the truth."-Tennyson,

The day is yet young, and in the early dawn many things look weird and fantastic which in fuller light prove to be familiar | brown serve immediately.

· FIGS AND THISTLES.

Every land that flows with milk and honey has giants in it.

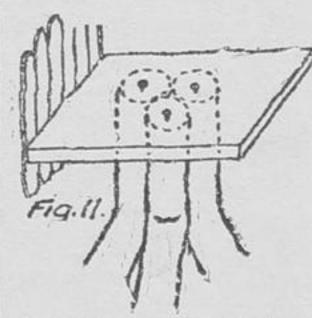
It is better to suffer wrong from all men than to do wrong to a single one. We are never saved by knowing our

strength or lost by knowing our weakness. There are people who pray for showers of

THE HOME.

Rustie Work.

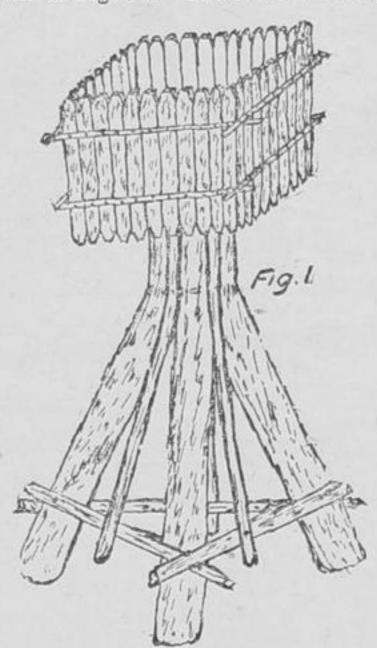
While in the Union Depot the other day I saw a very nice rustic flower stand, and as this is about the time of year when such | with the sirup. things are necessary I will tell you how this was done, and if any interest is taken by any of our readers, at some future



show how to make many such useful as well as ornamental articles, says a writer in Toronto Ladies, Journal. This one

date I will

stood about 3it. 6in. high and looked something like Fig. 1. In reality it was much better, and I am sure had my readers seen it they would have liked it as much as I did. The three legs are of the came shape, and cut perfectly square at the top so as to enable the shown that it cost less to produce a pound | bottom of the basket to be nailed to them, as shown in Fig. II. The sides of the basket



degrees is all the rise in temperature needed | small branches cut in two. If the branches are brittle you must soak them in water that anything over that is simply an un- for some time. Fig. 1 will show you how to complete the stand without any further description. Be sure and use copper nails as wire or iron nails will rust.

Draping Curtains.

The question of how to drape curtains is an important one. One artist said : "Everything should hang straight at the sides.' Another favored festoons and ends, or, in technical parlance, "sways and tails," and However the artistic eye may design a particular drapery, there is one great import ant fact, too slightingly treated by many housekeepers. That is, perfection in hanging. A draper is just as exact in measuring hanging the door. A little out of plumb means any amount of trouble. An uneven folding, means crooked, unsightly hanging to the drapery, and sagging or "skews" to the very best part of the room's decoration. Ere perfect scheme of action thou devise, For are not windows open pictures? Are they not the eyes of a room, and therefore in need of careful treatment? The poorest the meetings there attracted stuff requires quite as much, if not more, care than that of better quality.

Scraps of Black Silk.

Never throw away a scrap of black silk. An inch strip of black silk is a boon sometimes. After ripping up the old gown, boil for an hour, strain through a cloth and put in the liquid a quart or more of hot water and a tablespoonful of borax. Lay your silk flat on a perfectly clean Were we perfectly acquainted with the table, that has no seams or cracks in it, warm water, in which put a liberal quantity of borax, and pick the silk up by the corners and dip it up and down in the tub of water. Dip and dip till it is well rinsed, then take out to the line, where you Were all things certain, nothing would be have pinned a long strip of cloth about a foot wide. To the edge of this cloth pin the silk by the extreme edge, stretching it so that it is not wrinkled and does not droop. Let it drip dry, and it will need no ironing. Do this on a bright day, when there is no wind. Black ribbons may be cleaned the same way.

Apple Recipes.

Fried Apples, No. 1 .- Use fair tart fruit. Wash and dry the apples, remove the specimens otherwise whole. Slice thin and drop into an oiled or buttered frying pan, the fat in which must be hot. Turn to pre-

Fried Apples, No. 2.—Peel and core sou apples, divide them into eighths and sprinkle with sugar, flour and bread crumbs. Heavenly music cannot get into a gloomy | Melt a small piece of butter on the bottom of a stewpan, and cover with slices of apple, which are to be fried till yellow on both

Fried Apples, No. 3.—The old-fashioned way was to fry the peeled and sliced apples in the fat of salt pork, and to serve with-

Stewed Apples, No. 1 .- In this case most anybody."

firm and sound, about of a size, perfectly cleansed, and with the blossom ends removed. Simmer slowly till soft, putting them in the water when cold, and lift them out entire. Sweeten the juice a very little, and flavor slightly with lemon peel, serving

Stewed Apples, No. 2. - Use nice tart fruit, which is to be washed, peeled and cored. Stew in a little water till soft, press through a colander or coarse sieve, sprinkle very slightly with salt, sweeten to taste and serve.

Stewed Apples, No. 3 .- The apples, when peeled, cored and quarted, are to be drapped into cold water to prevent discoloration. Then a sirup is made of sugar and water, proportioned to the acidity of the fruit. When this has been brought to a boil the quarters are dropped in, covered, and cooked till tender. They are then skimmed out carefully, and the juice, if too thin, is boiled a little longer, when it is poured over the apples in the dish in which they are to be served. This sauce is pleasing without flavor, but nutmeg, cinnamon or lemon peel may be added, according to the taste.

Boiled Cider Apple Sauce, No. 1.-Into a gallon of sweet new cider, which has been reduced one-half by boiling, drop quartered apples with sufficient sugar to sweeten them. Let them boil slowly till tender, taking care that the apples do not scorch or break in pieces.

Boiled Cider Apple Sauce, No. 2.—This is for the preparation of sweet apples. Peel, quarter and core a peck of the fruit, which cover in a preserving kettle with sweet cider. Add four nice quinces, sliced fine. Boil for four hours, stirring and skimming often, and before taking from the fire add a pound of sugar.

Baked Apple Sauce, No. 1.-Pare and in a pudding dish in the oven. The sauce will be of a rich red color, and should be kept covered till it is to be used.

Baked Apples Sauce, No. 2. - Take large and perfect tart apples, pare them and remove the cores, leaving the body of the apple unbroken. Fill the core cavities with sugar to which bits of butter have been added, set them in an earthern pudding dish, and pour around them half a cupful of hot water. Let them bake till soft, then mash with a wooden spoon, sweetening and flavoring to the taste.

GAMBLING AT RACES.

The Sport Could Not Sink Much Lower Than it Has on Many Tracks in New

The adoption of the anti-gambling amendment to the constitution of the state of New York will put an end to book-making and betting as they have been conducted in that state for some years. Reputable racing men and stock breeders like Mr. Keene see nothing objectionable in the law, but the a loss of millions annually. In their opinion toga used to be a great racing centre and

THE WEALTH AND FASHI N of the metropolis. But the course has fallen into the hands of the men who came into not such as to inspire confidence. To suit the bookmakers and gamblers, morning racing was introduced, much to the regret take three or four old kid gloves and put their afternoons at the course, as was the Commerce defies every wind, outrides them to boil in a pint of water. Let them fashion. Sport was subordinated to betting, ceases to be a pastime for gentlemen and becomes a plaything for professional gamblers. These latter are responsible for the winter and electric light racing on sideration than the purse. The amendment to the constitution will put an end to keep out of debt. mixture till it is thoroughly saturated and the operations of the multitude of question-The cocoanut grove will not flourish all spots are removed. Then fix a tub of able characters who spend their time " following the races" and bring discredit course owners have, of course, great objecable revenue, inasmuch as it suppresses the bookmakers, each of whom paid \$100 a day for the privilege of plying his business at race meetings. As there were.

MANY THOUSANDS OF BOOKMAKERS

the return from this source alone must have been enormous the past season, sufficient in itself, in some cases, to return a handsome profit over expenses outside the amount received from the public for admissions. How is this loss to be made up so that racing may be conducted without loss to the managers of courses? Ask the racing men interested. The answer is that as soon as the courses are cleared of objectionable habitues and the management placed in the hands of men whom the public respect, the crowds that will be attracted to witness vent scorching, and when tender and the honest racing which will result will view turf lovers in New York take of the thankful that an end has been brought to the professional gamblers' level.

"Mother," sobbed the young bride, "he sides. Then place in a saucepan some milk, is just as mean as he can be." "No, he sugar, bread crumbs and currants; put in isn't, dear," said the mother soothingly. the fried apples, and let them boil up, but "A man can't really develop all his not to break. Serve hot with sauce left in meanness till he has been married four or five years."

George-"I wonder why it's so easy to get engaged to a girl in the summer ?" Jack-" I just tell you what, George, after a girl sees herself in a summer boarding-house looking glass she'll accept

sweet apples are to be used ; they must be | THE CURSE OF THE ROMANOFFS

The Russian Czars Have all Died Before the Age of Sixty-Five.

story to intimate friends. It was told him

James Russell Lowell used to tell this

by John Lothrop Motley:- "In 1853, just before the Crimean war commenced, the venerable Baron von Humboldt came to London on a very important confidential mission. He called upon Lord Palmerston, and said:- 'I know a war is imminent between England and her allies on the on hand and Russia. If you will temporize make diplomatic delays, do anything to gain time for a year or two, there will be no need to be a war.' 'Why ?' Palmerston asked. 'Because Nicholas of Russia will die within two years. The fatal curse of the Romanoffs is on him. Do you not know that a great secress told Peter the Great that no male member of the Romanoffs would ever live to see his 65th year?" 'But Nicholas is not yet 50,' Palmerston answered, 'I wish to save an immense flow of human blood, said old Humboldt, solemnly I know that the Czar will die within two years.' 'Lord Palmerston was greatly impressed with Baron Humboldt's statements. But he could not hold his own hand then. France, in view of Louis Napoleon's ready recognition by Palmer. ston and all Europe followed his lead, was then ready to take the field. So the Crimean war had to go on. But Nicholas of Russia died within four months of the two years' limit given him by von Humbolt." Leaving the prophecy out of the question it is a fancy of history that the Russian Czars have all died before 65. Alexander III's grandfather, the half insane Czar Paul and the four heads of the Romanoffs before Nicholas all died before 30, and of the same disease that has been so deadly to Alexander 111. Alexander 1., at one time Napoleon's great ally, then his enemy, who so core some fine tart apples, and bake slowly aided in the downfall of the French Empire died when he was 48 of "monomania, bord. dering on insanity," says history. Metternich, the great Austrian Premier of that date, bluntly declares he was insane. The Grand Duke Constantine, who was really entitled to the Russian throne, waived his right in favor of Alexander 1. He had sense enough to be aware that he was not mentally fit to rule such an empire as Russia. He died in his 52nd year of what would now be called cerebro-spinal meningitis. The Grand Duke Michael was killed in his 48th year by a fall from his horse while in a fit. He had shown signs of madness so often that it was a question whether it was safe for him to be at large. So goes the long but never changing record of the Romanoffs for two centuries.

Alexander III. was personally a most kindly man, and remarkably free from the grosser vices. He drank a little red wine sometimes, but no strong liquors, and he abhorred drunkenness, as did his father

WAGES IN GERMANY.

Average Earnings of Ordinary Workman Less than \$200 Per Year.

After an exhaustive examination of the Dwyers, Croker and others declare that it | wages paid in the large manufacturing will destroy racing in the state and involve establishments of Luxemberg, which he avs are about the same as are paid in other not only will racing deteriorate under the parts of Germany, George H. Murphy, restrictions placed upon it, but the stock United States vice-commercial agent there, farms, in which great sums are invested, transmits to the Department of State at and placing curtains, as the carpenter is in will be rendered unprofitable and loss visit- Washington a report upon wages paid in ed upon men who are entitled to encourage- steel and iron industries, with a general ment. As to deterioration in racing, the | view of the whole subject of German wages. sport could not sink much lower than it | He finds that generally speaking the averhas on many tracks in New York. Sara- age earnings of ordinary workmen amount to less than \$200 per annum. Women earn about half as much as men. The average wages of miners and foundry hands is less than \$1 per day. The salaries of primary school teachers are \$224 for males and \$170 for females. A very large majority of the notoriety at Guttenberg, and the manage- employes of the Government earn less than ment of affairs at Saratoga this year was \$400 per annum. On the other hand, still speaking generally, the necessaries of life cost as much in central Europe as they do in America. A workingman's expenditures of those who had been accustomed to spend for clothing and rent may possibly be somewhat less here than in America, but in the town of Luxemberg coal costs \$7 per and where that becomes the case racing ton, eggs 21 cents per doz., rye flour 3c. wheat flour 5c, sugar 8c, butter 25c, beef 19c, veal and mutton 16c to 20c, fresh pork 20c, and smoked pork 23c per pound. Frugality and industry can hardly be excourses where the pool box is of more con- pected to accomplish any miracle greater then that of enabling a thrifty workman to

> This distressing state of affairs is no doubt in part an unavoidable result of the competitive demand for employment, which upon the noblest sport of all. The race must exist inevery densely-populated country. But the misery of the European poor tion to this, as it deprives them of consider- has been aggravated by that popular craze which causes the large towns and cities of Germany to grow with rapidity as phenomenal as that which is doubling and trebling the population of our own western cities. An important point of difference, however. lies in the fact that foreigh immigration largely accounts for the development of our towns, whereas German cities expand almost entirely at the expense of the rural distriets. Consequently, the labor market is glutted, wages keep falling, and the evil is enhanced by the increasing use of laborsaving devices. The competition between manufacturers also forces down wages. The policy of the countries of central Europe seems to extend and inflate their manufacturing industries suicidally. Their idea of national prosperity and of happiness seems to be nothing more then the attainment of the ability to export manufactures and imfully compensate managers for any outlay port food, and in support of this policy to which they may be put. This is the the Government is taxing workmen an import duty on food in order to give the matter, and the better class are sincerely manufacturer an export bounty. The much-talked-of disarmament of Europe practices which have degraded racing to will, if ever realized, bring further calamity by adding to the labor mar kets millions of young men unfitted for country life by several years' residence in city barracks. The development of our American manufactories is undoubtedly of great importance, but American workmen and women have good reason to favor the restriction of immigration and to view with apprehension the tendency to inflate our manuface

> > "Is Miss Elder's hair artificial?" 'Oh, no; it is human hair." I mean is it her own ?" "Certainly ; she bought it."

turing industries beyond safe limits.