FARM AND GARDEN.

SUBJECTS SURE TO INTEREST THE COUNTRY READER.

A Combined Marker and Furrower Designed and Described by a Young Farmer in The Rural New Yorker, and Possessing Points of Importance.

This implement is shown in the accompanying cuts. The runners are cut from three inch material, by feet long and 10 inches wide. These are placed at the proper distance apart and held in position by cross pieces in front and behind, each end being notched into the runner and fastened down with two inch screws. A 1 inches long and three-eighths of an inch in diameter. Over these cross pieces and in the center between the runners is

COMBINED MARKER AND FURROWER.

either piece is bolted and allowed to extend six inches forward and a foot or more backward. A V shaped piece of iron fastened upon this receives one end of the gauge, which is firmly bolted, by a three-eighths inch iron rod connecting with a ring bolted at the forward extension of the center piece, thus admitting of motion from side to side only in a perpendicular plane. This does away with all works attached to the harness, and variation from unequal pulling of the team is avoided.

Into the center piece and rear cross piece steel legs of some elastic timber are inserted, which support a seat at a proper height. The front corners of the seat are rounded and the center of the front end cut slightly hollow. It is placed just far enough forward to allow this hollow part to rest solidly against the gauge when it is a perpendicular position as in the engraving, holding it securely while turning or in driving to and from the field. To prevent wear a piece of strap iron is tacked across the front end of the seat, and another on the gauge where it strikes the seat. The elasticity of the legs allows the gauge to pass the slight swell on either side. The driver can operate this without leaving his place, as would be necessary with other forms, and when raised both hands are free to use the lines.

Of course the distance from the center of the machine to the center of the gauge marker must be exactly twice that between the centers of the runners. The gauge marker is made comparatively light, 14 or 15 inches high, and not 3 or 4 inches long, the object of making it so high being to carry the pole above the runner. This is rather a disadvantage, for it is much more liable to break by catching on stones and roots than if it were lower and shaped differently (see second cut, Fig. A).

Another improvement of doubtful general utility, but especially suited to his case, was made by a neighbor, whose

SECTION OF MARKER.

farm is rather hilly. He found that his marker would slide down hill despite every effort, and to remedy this he made his runners of two 14-inch pieces bolted together, with a piece of a crosscut saw blade at the bottom of each, extending nearly the entire length of the runner and two inches below it, as shown in the second cut, Fig. B. It proved a success with him, but turning is rendered much more difficult, and where not absolutely necessary it is thought best to omit this feature.

To make a furrower of this machine cut out a deep hole very narrow mortise in each runner (see dotted lines in the second cut, B). These are made to receive the forward ends of wrought iron beams, carrying a large cultivator shovel a short distance behind each runner. Handles are attached to these beams, and when turning or driving to and fro the beams are thrown forward until they rest against the front edge of the mortise in a nearly upright position. The beams should be placed as low as possible, that they may not interfere with the gauge while in use. A 2-inch hole cut through just below the mortise allows the escape of any dirt that may fall into it. While just this form of implement may not be needed on many farms, there are good points about it which may be made of practical use by nearly every former.

The Indian Games.

The Indian games, about which much is being written and said of late and which have made fine exhibitions at some of the poultry shows among the fowls for which they are birds of great physical development and fine plumage. The fanciers, who have welcomed this breed with delight, claim that it is of value to the farmer. The Poultry Journal says:

The Indian game has many excellent qualities, and if some of the apparent weakness may not soft those not accustomed to it, the weight of the bird and its fine carriage when dressed will surprise the most skeptical person. An Indian game crossed on the Wyandotte has produced the best cross of any other mongrel breeds on record. What Indian games will do as layers we are not prepared to answer. We have one pen of birds on trial, and there are four more pens in the neighborhood.

Latitude and Potatoes.

All my potatoes are northern grown, writes a Pennsylvanian in the American Garden. He says: "Years years of experience I have found that northern stock is far superior to southern in vigor and yielding qualities. This is more apparent in the early varieties than in the late ones because of the fact that the early dug tubers pass the line of maturity and are on the down grade to decay before the planting time comes in spring."

Chinese and American Childhood.

The life of a Chinese child is full of quaint, strange ways and habits, as they appear to us, but doubtless to the eyes of the children our customs are equally queer. Still, those all in all, American children enjoy more more pleasure and freedom, and need envy those of no other nation. For in America, more than in any other land, children are the objects of constant petting, and are treated by grown people as companions and equals.—Philadelphia Times.

She Has a Memory Already.

Kate Tannatt Wood, in discussing the value of the cooking schools for cultivating the memory says: Any good mother who can remember the name her grandfather, the sister in Johnny's book, the button on Susie's cloak, coffee for the market, an embroidery for dessert, baby's powder and papa's laundry, and plan the menu, dressmaking and gardening, doesn't need lessons in strengthening the memory. The average American housekeeper remembers more in one day than she can forget in a lifetime. She is a being of many trades, an expert in fancy professions, and a peripatetic encyclopaedia for the household.

The Bells Polished Violins in Saxony.

In some of the villages of Saxony the inhabitants, men and women, spend their entire time in the making of violins. A good instrument is made of sixty-two different pieces, each one usually made by a different person, and the polishing of the instrument when completed is assigned to the women. Twenty and thirty times are the bodies polished, each family having its own particular tone and style of color, the secrets of which are handed down from mother to daughter through the generations, and the belle of the village is not the most beautiful maiden, but she who is the best polisher.—Exchange.

Dr. Talmage's Niece.

Miss Hollie Talmage, a niece of Dr. Talmage, was born in China and lived there some time as a missionary. She could speak Chinese before she learned English. She says the Chinese language is very difficult to master, because as much depends on the tone or pitch in which the same word is spoken. For instance, the word "yee" has eight different meanings, according as it is pronounced. The word "ko-ko" means "cousin," and it also means "friend." One American who was studying the language referred to his wife as his "ko-ko," and as he did not get the pitch right he called her a duck.—Detroit News.

Filing the Window Frames.

Windows may be frozeed in in the spring if they are not furnished with the modern pulley arrangement. Remove the screw strip of wood that holds the upper sash in place, and put a wooden screw fastening on the upper frame, so that the lower of the upper sash will rest on it. Put another button half way down to support the sash when lowered. This is something done in old country houses. Those who have should always have one movable pane. Then, even in winter, there can always be a fresh air supply. Of this one time home cases or raised sash, a day.—Washington Star.

Boy Plenty of Length.

When buying shirt waist boy a quarter of an inch more than is absolutely needed. Let it come down below the belt at the least or half of the stitch. When your car he begins to show wear on the elbows, brought to as that what was on the seam comes on the inside of the sleeve between the seams, thus bringing a new spot where the wear comes. It takes twice as long to wear out a garment if this is done and what applies to the shirt waist applies just as well to the coats used for covering. A very little extra expense when buying makes a good deal in the long run.—Ladies' Home.

Recreations of Civil Known Women.

A great deal has been written about the recreations of indoor men, but it may be interesting to hear something of those we hear well known women. Queen Victoria delights in water color sketching and playing duets with her favorite daughter, Princess Beatrice. The gentle wife of the crown prince of England is fond of fine needlework, dressmaking, playing the zither, photography, and has a pretty talent for oil painting. The Princess Louise is an author, a sculptor and an artist. Sarah Bernhardt indulges in a little harmless sculpturing. Miss Braddon loves housework filling. Mission and Albani are both devoted to cards, and Patti dotes on billiards, round games and needlework.

Patti, too, spends many hours with her Pomeranians, of whom she is extremely fond. One of the pursuits in her valuable leisure of wise and witty birds is an American importation for which she paid a pretty price. Recently she obtained possession of the bird the entire pet refused to utter a sound for months, until one day, when suffering from a heavy cold, the canary, hearing the person explained hoarsely to the physician called in consultation, "Oh, doctor, I'm so sick."—New York Sun.

How to Knit Canoe Mitts.

These mitts are for outdoor use in the garden or in the flower beds, and for this purpose unbleached knitting cotton is best for wear. Begin at the wrist. Cast on 72 needles (if medium coarseness 72 stitches, and knit 48 rounds of ribbing, K 2, p 2). Now knit 80 rounds (from the fifth to the 84th) in plain knitting, but you must begin the thumb gore in the 12th round by widening after the first and last stitch, then knit 1 and increase again (as).

In the next row knit the o stitches and gradually increase or widen the thumb gore in this way, in a straight line or above the o stitch, until you reach the 18th row. Then take up the gore stitches for the thumb, which is left open as the 19 row has narrowed off.

Knit the thumb for the length required in plain knitting and finish off with four rounds, by ribbing K 2, p 2, then cast off.

On the remaining stitches for the hand knit thirty-five or forty rounds of plain knitting, then six rounds of ribbed knitting, K 2, k 2, after which cast off.

These mitts are soft to the hands, but will protect them, and when soiled can be washed as often as necessary without bad shape by too much shrinkage.—Household Hint.

Progress of American Women.

The women of America are progressing in all directions at such a rate as to call both unmoved from many parts of the world. They have taken to their little pocketing, this mind shoes and let their toes spread out. They consequently walk more in the open air. They have tested their corset strings and breathe freer. They have cut down and opened up the high collar and can turn their heads about freely. They forever have little about personal comfort, and now they long for it. The young girl clings to her tennis or boating suit, while the older sister and mother wear the bicycle bloomers in the public, and create sensations when they can appear in to guess.

To the stock women has got to come some new form of dress, something entirely different from that we now have, and when women are as free as birds and look well then we will have really adorable women.—Exchange.

Women's Hedges.

One writer finally says: "Women's mission in this world is so grand, if not merely so, than that of man's, but it is different. She is intended for a more exclusive and limited sphere. That man does not process. A man is supposed to be qualified that she not being to have personality. If woman is to become men in responsibilities man's loss for her will cease. "Woman's sphere" is happily broadening, but it will go only as far as nature intended and no farther. It cannot cover the whole field of human effort."

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SUMMONS.

In the District Court in and for the Third Judicial District of the Territory of Utah, County of Salt Lake.

Summons in Attachment Complained.

Elizabeth Pugmire, George M. Pugmire, James H. Pugmire, Mary E. Pugmire, Joseph H. Pugmire, Mary E. Pugmire, minor; Thomas Pugmire, Sarah Pugmire, Ann Pugmire, Joseph Pugmire, Lucinda Pugmire, Sarah Pugmire, Hannah Pugmire, minor; Mary A. Pugmire, minor; Thomas E. Pugmire, Lucy Pugmire, Eliza Pugmire, Ann Pugmire, Hannah Pugmire, minor; Mary A. Pugmire, minor; Thomas E. Pugmire, minor; Lucy Pugmire, minor; Eliza Pugmire, minor; Ann Pugmire, minor; Hannah Pugmire, minor; Sarah Pugmire, minor; Joseph Pugmire, minor; Lucinda Pugmire, minor; Sarah Pugmire, minor;