New Oranges for the Southern States-The Agricultural Department Makes an Orange-

Lemon and Orange Pomelo-The New Kid-Glove Grape Fruit-What Uncle Sam is

Doing in New Grasses and Clovers-The Marriages of the Lettuces-The Romance

Of the Potato-Luther Burbank and his Wonderful Discoveries-The White Black-

Uncle Sam, Matchmaker.

Our Great Matrimonial Plant Bureau and Some of Its Valuable Offspring.

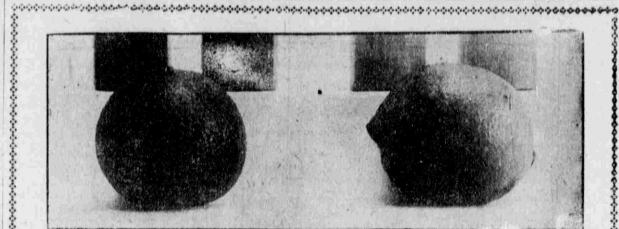
(Special Correspondence of the Deseret News by Frank G. Carpenter.)]

ASHINGTON, D. C.-Uncle duced new cottons, tobaccos and grains, am has turned matchmak-80,000 spinsters of Massachus setts nor the millions who are pining for husbands in the other parts of the United States. Uncle Sam's matches have not to do with human beings. Such unformare made in heaven. Unele Sam's marriages are of the earth, earthy. They are the marriages of plants and trults, and they are adding to the wealth of out the north. the country. I can't tell just how

just beginning to work. NEW ORANGES FOR THE SOUTH. I spent today at the agricultural department talking with Dr. Herbert J. Webber, the head of the laboratory of plant breading, and with other scientists on what is being done to produce new plants and fruits. Dr. Webber has devoted his life to this work, and under the direction of the secretary of agriculture he and his associates are accomplishing wonders. They have pro-I spent today at the agricultural de-

and they have now discovered an or-ange which will grow about 300 miles further north than any we now have. At present the oranges of the United At present the cranges of the United States are grown almost altogether in the southern half of Florida and in a comparatively small part of California. This will extend the orange region northward throughout Georgia and into South Carolina, the Guir states, Texas, parts of Arizona and into many other parts of California. It will make it possible for every southern farmer of possible for every southern farmer of these regions to have an orange grove in his back yard, and oranges will be as common there as apples are through

It took about 10 years to produce this result. How it came about is as follows: In 1894 and 1895 we had a terrible frost which destroyed the orange groves of Florida, The trees were frozen down to the ground, and upon looking back it was found that such frosts and down from time and demuch; but the sum runs high into the millions, and the matrimonial bureau is



THE NEW ORANGE-LEMON AND AN ORDINARY LEMON.

berry, the Shasta Daisy and the Plumcot.

picked out the toughest and tried to breed tougher ones by seed selection. This was very slow, and they looked types with which they might cross

Among the other things experimented with was a hardy little orange tree which grows as far north as New York. There are some on Long Island and several in the agricultural department grounds. The tree is grown for hedges. It is known as the Trifoliate orange, and it has a fruit about as hig around. and it has a fruit about as big around as a baby's fist, but as sour as vine-gar and as bitter as gall. It is, however, a perfect orange in shape, and is really an orange, although not fit for eating. They took this tree and married it to the sweet orange tree of Florida, and after many trials they have now pro-

after many trials they have now produced the trees which will grow and fruit 300 miles farther north.

The new orange is three inches in diameter; it is a good eating orange, although a little bitter. It can be propagated by budding and can be easily spread throughout the southern portion of the United States. Our naval connect all come from a tree which was tion of the United States. One have oranges all come from a tree which was sent here from Brazil and grown in the agricultural hot houses. That tree was the father of the seedless orange industry of California. These trees industry of California. These trees will be the fathers of orchards all over

ORANGE-LEMONS AND POMELOS. In crossing these trees several other varieties of oranges were produced, seed from the union had to be planted, and as it takes about as long for an orange tree to yield fruit as it for an orange tree to yield frint as it does for an apple tree, it was several years before the department could know whether it had anything or not. The first fruiting came this year. Or variety was the Rusk orange, named after the late Secy. Rusk of which I have already written. Another was an orange lemon of just about the size of the Rusk orange. This orange is as orange-lemon can be grown wherever the Rusk orange can be grown, and it will give orange-lemon orchards to milions of families throughout the south lemons cannot now be gro

Another of the trees produced by marrying the Trifoliute orange with the Florida orange has a fruit which might be called the orange pomelo, or the pomelo orange. This fruit is about the size of a large orange, but it tastes somewhat like a cross between the or-ange and the pomelo. It will grow in these same localities and will make a fine breakfast food. In short, from the union of these two varieties of frees, one little more than a scrubby bush and the other a fine orange tree, have been produced three good varieties of trees which will give the greater part of the south oranges, pomelos and lemons.

THE TANGELO.

Have you ever seen a Tangerine orange? It is a little orange with a loose skin so fastened to it that it is sometimes called the kid glove orange. The skin can easily be taken off and the sections of the fruit pulled apart and caten. You know also the grape fruit or pomelo, which has a deligious acid flesh but a bitter, tight-aticking skin.

95th fruits are sold in the markets. Dr. bebber and his asistants have married this little Tangerine orange tree to the pomelo, and they have produced a pomelo which, although not so large as the ordinary pomelo, is of a good size. It has a loose skin, so that you can tear it off with your fingers as you can that of the Tangerine orangs. The flesh of the new pomelo orange is more delicious than that of the penelo itself. It is sweeter than the pomelo, and more ley and acid than the Tangerine, and it contains the bitter principle of the grape fruit slightly reduced. It might be called a kid glove grape fruit.

UNCLE SAM'S NEW BABIES. These products are among the most reminent of Uncle Sam's new hables.

cotton with the short staple upland cotton, and has thereby produced a medi-um staple cutton which will grow on the uplands. The Egyptian cotton has also been cross bred with Uncle Sam's product and the probability is that we will raise the \$11,000.000 worth of Egyptian cotton which we now import, upon our own soil. I have writen as to the wonders which have been accomplished wonders which have been accomplished in tobacco breeding and something as to the improvements being made in our corn. In the plant breeding houses of the department here I have examined the crossing of the Texas blue grass with the Kentucky blue grass, whereby they hope to get a rich sod which will grow all over the south. In the same houses they are breeding clavers with houses they are breeding clovers with alfalfas and also lettuces and different verieties of flowers which have a commercial value

MARRIAGE OF THE LETTUCES. One of the strange things is the marriage of the lettuces. There are two commercial varietis in the United States one of which is sold sast of the Alieghenies and the other west, the latter being raised chiefly about Grand Rapids. The Grand Rapids lettuce is a loss letture with lower less than the control of the control loose lettuce with long loose leaves, de-licious to taste. The eastern lettuce is a head lettuce and is much better some respects for the table. Dr. B. T. Galloway, the chief of the bureau of plant industry, first figured out in his mind what he thought would be an ideal lettuce for the market, and he then told his experimenters to go to work and see if they could not produce that lettuce, by crossing the different varieties. They have married the east-ern and western lettuces and they think they are rapidly producing their ideal. Indeed I saw many heads of lettuce today in the plant breeding hotbeds which seemed almost perfect and con the excellencies of both varieties.

In talking with Dr. Galloway the oth-r day he told me of some experiments e had made with violets. He wanted the Rusk orange. This crange is as sour as a lemon and it tastes not unlike one, having a delicious flavor slightly different from the lemon. It has more juice than a lemon of the same size, as can be seen by a photograph I give of several tubes showing the amount of juice in each fruit. This

the biggest prices and others just when there was the least demand. He made a careful selection of seeds and after a time produced violets which flowered just at the right time and in the largest number per plant. The result was the hotbed paid a good dividend. He had then shown the success of his experiment and sold cut. His successor raid to attention to plant selection and important that the people who like their sold in the largest number per plant. He successor had the the sold at the successor raid to attention to plant selection and the content of paid no attention to plant selection and in a short time he was making no more out of the second than at each

THE ROMANCE OF THE POTATO.

Among the most romantic stories of plant production is that of the prosale protate. Potatoes are ordinarily pro-duced by planting the potato or cuttings of it. A potato plant, however, sometimes produces a seed which may be planted and may possible yield a new variety. About 1850 a man named Goodrich experimented with wild Peruvian and Chile potatoes. He grew coed-lings from those plants for a number of years and finally from them produced two varieties which were fairly valu-able, one of which was known as the Garnet Chill. In 1860 Mr. Albert Breese of Vermont planted some seed of a Garnet Chill plant and one of the re-sults was the Early Rose. When this potato was put on the market it brought fabulous prices, and it is still one of the most valuable potatoes we have. It was the Early Rose which was the

mother of the Burbank potato, which was named after Luther Burbank, who was a schoolboy when he discovered it. Young Burbank had heard what Breese had done in producing the Early Rose, had done in producing the Early Rose, and he had become generally interested in plants of all kinds. One day while walking through a field of Early Rose potatoes he saw a seed pod on one of the plants. He watched it carefully, thinking he would save the seed and plant them. The field was near where he went to school, and he examined the pods from day to day until they should be ripe. He wase specially anxious about them, for, although such seeds are often found on other varieties of potatoes, they seldom occur on the seeds are often found on other varieties of potatoes, they seldom occur on the Early Rose. One morning when he looked for the pod he found it had disappeared. His heart fell, but he got down on his knees and hunted the field over. He cried over his loss and went every day for a week to the field looking for this seed pod. He finally found it about 16 feet away, hidden under another vine. It had evidently been knocked off by someone passing rapidly. He kept the seed pod and the next year planted the seed. From the plants which grew he secured the one which

which grew he secured the one which produced the Burbank potato, which is now known throughout the world. BURBANK'S WONDERFUL DISCOV-

ERIES. As he grew older Burbank became still more interested in plant produc-tion. He worked for a time in the shops of the Ames Plow company in Massachusetts, and there invented im-Massachusetts, and there invented improvements in woodworking machinery which were so valuable that his employers offered to multiply his wages twenty-five times if he would stay with them. He decided, however, that he cared more for plant breeding than for shop work, and finally went to California, where he started a plant-breeding farm. He has this farm, just outside Santa Rosa, Cal. and upon it outside Santa Rosa, Cal., and upon it has produced some of the plant wond-ers of the world. He has produced no ers of the world. He has produced no end of flowers, vegetables and trees, as well as new varieties of fruits. He has married the plum to the apricot, and got what is known as the plum-

I met the other day a man who had Luther Burbank. He tells

just visited Luther Burbank. He tells me that the people who live hear by cannot understand him. They look egon him as a harmless idiot, who is egen bin as a harmless idlor, who is saling thousands of plants and cutting them down without reason, and then raising others. They do not realize that he is carrying on a great business, and that he is doing wonders for the world. He is wrapped up in his work and wants to devote himself to it. He is a modest man, and does not care for notoriety. He keeps away the crowd of sightseers to some extent by charging for his time. His price to interviewers is \$10 an hour, and I am told that many people are glad to pay that for the information they get from him. He is an enthusiast on plant

that for the information they get from him. He is an enthusiast on plant production and on plant breeding the possibilities of which, he says, can bardly be estimated. In a recent pa-per which I have before me he speak of the great staples of the United States, saying: States, saying:
It would not be difficult for a man to breed a new rye, wheat, barley, oatser rice which would produce one grain more to each head, or a corn which

would produce an extra kernel to each ear, another potato to each plant, or an apple, plum, orange or nut to each reg. Suppose this were done, what would be the result? In the five staples on ly, in this country alone, we should have annually, without effort and without cost, more than 5,200,000 extra bushels of corn

20,000,000 extra bushels of oats, 1.500,000 extra bushels of barley. 21,000,000 extra bushels of putatoes,

WHAT PLANT BREEDERS MAY DO. Here is what Luther Burbank says plant breeders may do: "Cultivation and care may help plants to do better work temporarily, but, by breeding, plants may be brought into existence which will do better work always, in all places, and for all time. Plants are to be produced which will perform

their appointed work better, quicker and with the utmost precision." "Science sees better grains, nuts fruits and vegetables, all in new forms sizes, colors and flavors, with mora nutrients and less waste, and with eve-ry injurious and poisonous quality eliminated, and with power to resist sun, wind, rain, frost and destructive fungus and insect posts. It sees bet-ter fruits without stones, seeds or spines; better fiber, coffee, tea, spice, ubber, oil, paper and timber trees an

better sigar, starch, color and perfume plants. Every one of these and ten thousand more are within the reach of

most ordinary skill in plant breeding. FRANK G. CARPENTER.

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A Pioneer Thief Who Abandoned Stolen Gold.

out of the west, as well as the east, And the great San Joaquin valley of California has produced its quota, says the San Francisco Chronicle. One of the best-known of these men was Jasper Harrell, who had his home in Tulare county, but whose business transactions carried him all over the state and into other states as well. No one had a wider acquaintance than Mr. Harrell, for he was one of the very early settlers in that region, and he literally grew up with the valley. He was an exceedingly popular man, and this was probably one reason why he flourished as a rancher and stockman, and amassed a goodly fortune before the close of the nineteenth century. He handled large herds of cattle and was a dealer in and grower of hay and barley to such an extent that he came to be familiarly neknamed "Barley" Harrell.
One bright spring day, long before the Southern Pacific railroad wound its crocked, double-line track up and over the Tchachapi mountains from the great valley into the Mojava desert

eat valley into the Mojave desert, r. Harrell and his father-in-law start-from their home in Tulare county ride on horseback to Los Angeles, distance of 250 miles, at least. But such lengthy journeys were not infre-quently undertaken by stockmen and merchants in those ante-railroad days n California. The two men stopped over night wherever twilight caught

them, for the country was almost unin-

of Los Angeles. One night, in crossing the Techchapi range, they made their camp in a grove of scrubby oak and brush. Their horses

were staked out to graze, and, after a meager meal around the campfire, the two men arranged their bed for the night. Mr. Harrell had around him a strong, wide buckskin belt in which he carried \$1,600 in gold coin. With this he intended purchasing a number cattle rated as feeders, and these would then be driven back into the valley and prepared for the markets. Unbuckling his heavy money belt he threw it on the ground under his saddle, which he always used as a pillow in camping

Sweetly and soundly the two men slept out there under the silently passing stars, with no thought of harm or nt of danger.

When morning came they arose early, built a fire, cooked and ate their break-fast with a relish, and then brought up their horses to be saddled and bridled, When Mr. Harrell picked up his saddie he stared at the bare ground and whistled sharply. "Where in Lucifer is that belt and my money?"

Sure enough, it had disappeared. The sure chough, it had disappeared. The camping ground and every article on it were carefully searched, and then every foot of ground within a wide circult was minutely gone over; but not a sign of any belt or meney was found Neither could any tracks of either man or animal be seen. It was a mystery what had become of that money belt, for they were many many miles from for they were many, many miles from any human habitation and no one had passed them on the trail for days. Giving up the search with reluctance

APTAINS of industry have come | habited and there was no hotel this side | the two men went on south to the end of their journey, but they did not buy any cattle. About 13 months later Mr. Harrell

and another of his livestock friends made the same horseback trip again. They camped not far from the place where the buckskin belt had been lost

on the previous journey.
"Right over yonder," said Mr. Har-rell, showing his friend, "is where I lost sixteen hundred dollars in gold when I went through here, about a year ago, I'd like to know what became of that

"Let's go over and look around there again, just for fun." suggested his friend.

They did so. And, strange to relate, they accidentall ystumbled right over they accidentall vstumbled right over the very spot where the money had been dropped. For over 12 months that heap of 20-dollar gold pieces had been kissed by the grass and flowers, wept upon by the rain and dew, winked at by the stars, smiled at by the moon inflamed by the sun and fanned by the breezes; yet there they were, appar-ently unchanged in the least. Though, the money had mysteriously disap-peared, it was almost as strangely repeared, it was almost as strangely re-covered. All of it was found but two 20-dollar pieces.

Here is the explanation: A hungry coyete had passed by the sleeping travelers and had suffed around till it found the buckskin belt. This was saized and carried off to a safe distance before the animal stopped to chew up the buckskin. On the way two of the coins had dropped from the belt, but the rest of the gold held in place till it was torn from its recesses as the sharp-toothed, hungry coyote devoured his stolen tidait. his stolen tidbit.

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