

FARM FIELD AND GARDEN

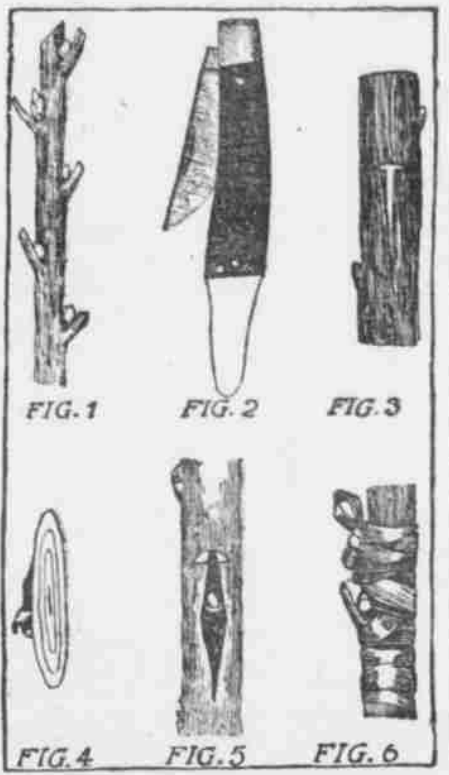
THE ART OF BUDDING.

The Season, Necessary Materials and Details of the Operation.

The cut quite plainly represents the details of the operation of budding. The points may be given in brief as follows: Budding is performed in the north from the beginning of July to the middle of September, beginning earlier in the southern states. Stocks should be at least three-eighths of an inch in diameter. Leaves should be rubbed off from the base of the stock just before budding. On young stock buds are inserted as low down to the ground as the bud can work. On trees of considerable size the new growth of high branches is selected. The north side of the tree is generally considered best, as it is shielded from the sun.

The scions from which the buds are to be taken are cut from shoots of the season's growth, usually on the outside of the tree where they have been exposed to sunshine, as they must be strong and well hardened. The growing end of the shoot is cut off. The leaves are removed, but a part of the stalk of each leaf is left. Thus the "stick of buds" is formed.

In preparing the stock two cuts are made, one vertical, about an inch and a half long, and one horizontal, across the top of the vertical. At the same time the bark, if it is in the right condition and the operator is expert, is



EVOLUTION OF THE BUD.
FIG. 1, a stick of buds; FIG. 2, budding knife; FIG. 3, stock cut for budding; FIG. 4, a bud; FIG. 5, the bud inserted; FIG. 6, the bud tied.

lifted by a peculiar turn of the knife. When the bark does not slip freely, it is raised by a sort of lifting and pushing motion with the thin bone scalpel at the end of the budding knife. Many budders use the rounding point of the blade.

The bud is cut about an inch long and taken away at the deepest point, about one-fourth of the diameter of the twig. Some growers strongly recommend removing from the bud the little bit of hard wood that is thus cut out with it from the stick.

The bud is inserted at the upper end of the long incision on the stock and pushed gently down to place. If the upper end of the bud extends above the transverse incision, it is cut off to fit.

The bud is tied immediately, beginning at the lower end, winding upward, covering the incisions securely, but taking care to leave out the foot stalk and the bud. A string for budding is cut about a foot long. The lower end is secured by wrapping over it the second time round, and the upper end is finished with a knot.

Woolen yarn, candle wick, narrow strips of muslin, basswood bark or the imported raffia may any of them be used for tying.

When the bud has successfully united with the stock, the tie is taken off, in about three weeks.

Forests and Stream Flow.

In considering the relation of forests to stream flow James W. Tourney expresses the opinion that, although the forest may have, on the whole, but little appreciable effect in increasing the rainfall and the annual run-off, its economic importance in regulating the flow of streams is beyond computation. The great indirect value of the forest is the effect which it has in preventing wind and water erosion, thus allowing the soil on hills and mountains to remain where it is formed and in other ways providing an adequate absorbing medium at the sources of the water courses of the country. It is the amount of water that passes into the soil, not the amount of rainfall, that makes a region garden or desert.

Mansuring Grass Lands.

An English authority says: "It is better to lay up the same land for hay each year, grazing the aftermath only, and in the same way always to graze other land rather than graze and hay in alternate years. In this way we obtain the fullest development of those grasses and clovers which are suited to haying and grazing respectively. For the same reason the system of manuring once adopted should be varied as little as possible, for even manures as similar as nitrate of soda and sulphate of ammonia encourage different kinds of grass."

London Items

There have been strong indications of rain for the past few days. However, it is to be hoped that not much rain will fall until harvesting is over.

Manager Geer is still away and is not expected for another week.

Mrs. J. C. Fullerton and daughter, Miss Kate, Mrs. Brummel and Mrs. Roberts returned to their homes in Roseburg on Monday. They are greatly missed by all the guests at the Springs.

Mrs. Warnock of Portland accompanied by her two daughters Misses Anna and Lillian, arrived here Tuesday. They expect to remain for two weeks.

Mr. and Mrs. Neal and family and Mr. and Mrs. Webber spent Sunday at the home of Mr. Doolittle.

F. L. Chambers and wife and Prof. F. S. Dunn and wife spent Sunday night at the Springs. They came in Mr. Chambers' new auto car.

Marion and John Whitney of Klamath Falls spent Sunday at the Springs, the guests of Mrs. T. M. Hunt. They are returning home from a two weeks' visit at the fair.

Wm. Neal returned to Eugene Monday after a weeks' visit at London.

The hotel arrivals for the past week are Mr. and Mrs. Romeo Gilbert, Miss Lulu Gilstrap, Mr. and Mrs. F. L. Chambers, Prof. and Mrs. F. S. Dunn, Eugene; Wm. Beland, Jas. Allison, Seattle, Wash.; J. A. Baker, P. C. Hanson, J. B. Sloan, Herald W. White, Jas. Patton, Chas. Forester, Cottage Grove; W. S. Burris, N. Y., H. A. Brewer, Mrs. A. B. Warnock, Misses Warnock, Portland; A. J. Lugg, Black Butte; Marion and John Whitney, Klamath Falls; C. F. Parker, Grants Pass; Robert J. Batby, Santa Barbara, Cal.

H. C. and Margaret J. Veatch, Mary E. and John D. Cochran to J. W. Wolter, certain land in Long & Landess' ad to Cottage Grove \$115.

A Unique Decision

The Supreme Court of Washington has recently handed down a decision in which it fixes the position of a sawyer in a mill as a vice-principal in respect to the employees under his immediate direction, and that the fellow-servant plea is not available as a defense in a damage suit for injuries to men under him caused by the negligence of such sawyer.

The decision is in a Pierce County case. William O'Brien occupied the position of "dogger" on the log carriage in the mill of the Page Lumber Company at Buckley. His duties were to fasten the dogs of the carriage into the logs under the direction of the sawyer. While engaged in his duties, the sawyer, through alleged negligence operated the "nigger" in such a manner that the log was thrown over the blocks and against the lever, releasing the carriage. The carriage traveled along its track and the log end swept along the side of the mill. O'Brien attempted to escape, but his hand caught and he lost three fingers.

In the trial of the case the lower court directed the jury to bring in a verdict for the mill company on the ground that the negligence, if shown, was that of a fellow servant. The Supreme Court holds that this was error. The dogger performs his duties under the direction of the sawyer, and while the latter has not the power of employing men, he reports incompetency and his advice is considered in the discharge of employees. The Supreme Court holds that in one sense he is a fellow servant and in another a vice-principal. The case should have been submitted to the jury and it is remanded for further proceedings.

The Timberman.

H. O. Thompson, Secy. of the Commercial Club, and of the Cottage Grove Electric Light Co. went up to Bohemia on Monday to do some general repairing on the Vesuvius property, and look over the camp, reports having had the time of his life. It is a great camp he thinks and the most beautiful scenery he has seen for a long time.

Cottage Grove ought to be proud of the fact that she has men in her midst that can handle the City contracts, and will make better prices than outside men, and do just as good work. That Mr. Geo. Lea, one of our citizens has been able to compete with and secure the contract for building the new water system should be a matter of much pleasure to Cottage Grove people.

Lane county has issued more Hunter licenses than any other county in the state, even Multnomah county is considerably behind this county in the number issued.

THE DEAF EAR.

(Portland Free Press)

The lack or loss of one of the five human senses isolates the patient thus afflicted as entirely from the world as if he was banished to a lone island. What gratification can bring us the society of our best friends and acquaintances if their voices do not reach our ear or if, instead of it, we are only conscious of an indistinct murmur? With the loss of hearing all joy and pleasure dies within us, most so in the domestic relations of life. The song of our children sounds from their lips but does not reach our hearts, their thanks and prayers are an empty sound. No birds sing in the branches for us; no sound of the whole nature reaches our ear—a feeling of sorrow and despair fills our heart. It makes no difference if our suffering is due to an obstinate cold or to other causes.

To give our readers a case, the most convincing because taken from the circle of our nearest acquaintances, we refer to Mr. J. J. Kern, who suffered five years from a deafness so obstinate that his mind began to suffer. Mr. Kern was at that time editor of the "Nachrichten and Free Press" and the loss of hearing and the constant noise in his ears proved a great obstacle to his business. Dr. Darrin cured him ten years ago by clever treatment, and the evil has never returned.

TO WHOM IT MAY CONCERN

For years my daughter has been deaf, with almost constant discharge of the ears, causing a disagreeable odor. Her skin had become a brown color from head to feet from constipation and liver trouble, also diabetes. Under Dr. Darrin's electric and medical treatment one year ago all her above troubles have disappeared, and I am so pleased I wish all to know where to be cured. Will answer all questions by letter or person at Jefferson, Oregon.

Mrs. C. A. Esteb.
PARALYSIS AND EPILEPTIC FITS CURED.

Mrs. James Pugh of Shedd, Oregon writes as follows: Dr. Darrin: "You cured my boy 18 years ago in Portland of facial paralysis and epileptic fits. He is now a strong man. He had only one fit two weeks after you commenced treating him."

Mr. G. W. Dunlap, of Halsey, Ore., says: "For over 20 years my wife has had inflamed eyes and granulated lids. Dr. Darrin has cured her."

Mr. C. R. Durfee, of Shaw, Oregon, reports his cure of deafness of 23 years standing by Dr. Darrin is complete. His daughter Miss Durfee, has had no recurrence of her deafness and granulated eye trouble.

Mrs. Al Hudson formerly of La Grande, Oregon, now residing at 269 Salmon street, Portland; paralysis of one side and diseases peculiar to her sex cured nine years ago by Dr. Darrin.

Mrs. Abbie Wareham, Montavilla, Oregon, epilepsy 26 years cured by electricity and medicine 10 years ago and never had a return of the symptoms. Hundreds of others might be mentioned who do not wish their names published. In most cases only a visit is required. Owing to the crowds rushing to see the doctor he will receive patients from 10 a. m. to 8 p. m. Dr. Darrin remains at the Hotel Suedde, Eugene, until Oct. 1.

Dr. Darrin's terms for treatment are \$5 a week, on in that proportion of time as the case may require. The poor treated free except medicines from 10 to 11 daily.

A WARNING TO MOTHERS

Too much care cannot be used with small children during the hot weather of the summer months to guard against bowel troubles. As a rule it is only necessary to give the child a dose of castor oil to correct any disorder of the bowels. Do not use any substitute but give the old fashioned castor oil and see that it is fresh, as rancid oil nauseates and has a tendency to grip. If this does not check the bowels give Chamberlain's Colic, Cholera and Diarrhoea remedy and then a dose of castor oil, and the disease may be checked in its incipency and all danger avoided. The castor oil and this remedy should be procured at once and kept ready for instant use as the first indication of any bowel trouble appears. This is the most successful treatment known and may be relied upon with implicit confidence even in cases of cholera infantum. For sale by The Modern Pharmacy.

The water rushing through the head gates of a dam may be prevented to a great extent from cutting by the construction of an auxiliary rough dam across the stream below the gates. By allowing the water to pass through the gates under control, opening the gates slowly until the lower basin is filled, the gates may then be left wide open as long as there is sufficient flow of water to fill them. When the low stage of water comes the gates will be closed but with coming again of the flood seasons the same thing may be repeated.

Gowdville had telephone service for the first time Thursday.

The new telephones for the Bohemia and farmer lines are being put out rapidly. It takes some time to install them.

J. I. Jones has moved from his former home to Dr. Wall's residence. Mr. W. Bambridge who bought Mr. Jones' home will move there shortly from Shoestring. Mr. Bambridge is a well known stockman.

Rev. Mr. Burgess of Saginaw celebrates his 62 birthday Friday and to do him the honor which properly belongs to him, many of his friends met in a happy gathering. Rev. Grace with his wife and daughter went down to join with the others in wishing Mr. Burgess many more years of usefulness.

It is doubtful if anyone thing has so greatly surprised and pleased eastern visitors at the Lewis and Clark Exposition as the showing of Oregon's mineral wealth in the mines and metallurgy building. People from the east and the middle west, who, by the way, have attended the fair in much greater numbers than was expected, looked for great things from Oregon in the way of timber, fruit and cereals, but to a great majority of them the mines of Oregon were little known.

Oregon occupies one-fourth of the space in the mines and metallurgy building, and in addition, an annex twenty feet wide by sixty feet long which extends part of the way across the west side of the building. Considerably more than 1000 mines are represented in the displays, which are comprehensive, well arranged and interesting alike to miners and to people not in any way interested in the industry they represent.

A striking feature which one encounters at the left, immediately upon entering the building, is a big stone, smooth like a potato, suspended by chains beneath a tripod after the manner of a camp kettle. The boulder, on close examination, is seen to be very rich in gold. In fact, it contains minerals worth \$2,000.

Good for Stomach Trouble and Constipation.

"Chamberlain's Stomach and Liver Tablets have done me a great deal of good," says C. Brown, of Portage, Ontario, Canada. "Being a mild physio the after effects are not unpleasant, and I can recommend them to all who suffer from stomach disorder." For sale by The Modern Pharmacy.

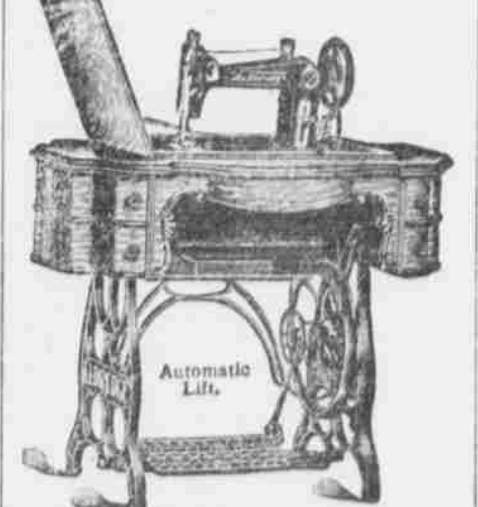
In iron smelting the blast is heated by the inflammable gases resulting from combustion of the materials in the furnace. This inflammable gas is chiefly carbon monoxide. Very little of such gas evolved in copper or lead smelting in cupola furnaces, and consequently the blast must be heated by other means. In reverberatory practice there is always abundance of heat from the fuel used and from the burning of sulphur in the ore, and this heat can often be utilized for heating air for the blast furnaces or for steam making and for other purposes.

NOTHING ON THE MARKET EQUAL TO CHAMBERLAIN'S COLIC, CHOLERA AND DIARRHOEA REMEDY.

This fact is well known to druggists everywhere and nine out of ten will give their customers this preparation when the best is asked for. Mr. Ole Witmer, a prominent druggist of Joplin, Mo., in a circular to his customers says: "There is nothing on the market in the way of a potent medicine which equals Chamberlain's Colic, Cholera and Diarrhoea remedy for bowel complaints. We sell and recommend this preparation." For sale by The Modern Pharmacy.

"The Eldridge"

SEWING MACHINE.
ROLLER BEARING.
HIGH GRADE.



Save Money by buying this reliable, honest, high grade sewing machine.

STRONGEST GUARANTEE.
National Sewing Machine Co.,
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KILL THE COUGH AND CURE THE LUNGS WITH Dr. King's New Discovery FOR CONSUMPTION COUGHS and COLDS. Price 50c & \$1.00 Free Trial.

Swiftest and Quickest Cure for all THROAT and LUNG TROUBLES, or MONEY BACK.

FINNISH SUFFERING

is often caused by sores, ulcers and cancers, that eat away your skin. Wm. Bedell of Flat Rock, Mich., says: "I have used Bucklen's Arnica Salve, the best healing dressing I ever found." Soothers and heals cuts, burns and scalds. See at Benson's Pharmacy; guaranteed.

WOMEN WHO SUFFER FROM Sick Headache SHOULD USE

HERBINE

For Permanent Relief

HERBINE acts directly on the Liver. It will cure CONSTIPATION, DYSPEPSIA, MALARIA and CHILLS. Is entirely free from all poisonous mineral substances, and is composed solely of LIFE-GIVING HERBS. Especially adapted for weak and weary constitutions; strengthens the weakened glands and organs; it checks all derangements of the human body.

CURED HER SICK HEADACHE

Mrs. Josie Cameron, Centralia Avenue, Temple, Texas, writes: "I find HERBINE gives me quick relief, and take pleasure in recommending it to all women who suffer from sick headache."

WITHIN THE REACH OF ALL

Fifty Cents A Bottle Avoid All Substitutes

Ballard Snow Liniment Co.

St. Louis, U. S. A.

SOLD AND RECOMMENDED BY The Modern Pharmacy.

THE COTTAGE GROVE Cigar Factory THOS. CONGER PROPRIETOR

I am putting up a high grade in cost cigar

The C. G. Brand C. G. Brand, \$5.00 per 1000 lot 100 free with each 1000 lot 50 free with each 500 lot

Bohemia, a 5c Cigar Bohemia Brand, \$3.00 per 1000 lot 100 free with each 1000 lot 50 free with each 500 lot

Made from the very best imported and domestic tobaccos. They are for sale at all cigar stands in the city.

PATRONIZE HOME INDUSTRY

H. C. MADSEN, WATCHMAKER. Repairing at reasonable charges. All work guaranteed. Watches, Clocks and Jewelry at Lowest Prices. COTTAGE GROVE, ORE.

The First National Bank OF COTTAGE GROVE, ORE.

Paid 1/3 Capital, \$25,000.00

Money to loan on approved security. Exchanges sold, available any place in the United States.

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NORTH BOUND SOUTH BOUND

No. 12, 11:53 p.m. No. 11, 2:05 p.m.

No. 10, 3:05 a.m. No. 9, 2:24 a.m.

A little forethought may save you no end of trouble. Anyone who makes it a rule to keep Chamberlain's Colic, Cholera and Diarrhoea remedy at hand knows this to be a fact. For sale by The Modern Pharmacy.

O. & S. E. R. R. CO. Time Table No. 4 To take effect April 24, 1905.

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