

An Extensive Vineyard.

Mr. G. G. Briggs, who last year purchased the ranch of the Rev. M. M. Dodson, two miles south of this place, has set out 150 acres of it to the choicest varieties of raisin grapes...

Mountain Farming.

In support of our position in regard to the profits of farming in the foot-hills and uplands, we quote the following enthusiastic endorsement of the Amador Ledger:

We have on a number of occasions referred to the capacities of several of the ranches, orchards, gardens and other cultivated lands in the vicinity of Jackson, and given their actual products and the amount of money realized from each acre cultivated.

This week we give the actual product of the ranch of Mr. C. J. Raffner, situated at the north-western foot of the Butte mountain, three miles east of Jackson.

From the two acres cultivated in vegetables, the following sums and products were realized: Four tons of tomatoes, at two cents, \$160 00; from the sale of cucumbers, beans, peas, cabbages, beets and other vegetables, \$300 00; product from two acres, \$460 00.

McLERRY TREES.—We regret to state that Mr. Brannan has uprooted his whole mulberry orchard of nine thousand trees, of seven years' growth.

Yet we have in San Francisco a silk factory, getting its raw silk from Japan, and declining to buy and rear our own silk!

Vivisection.

The dissection of living animals for scientific purposes, is at present the subject of warm debate in England. On the one hand it is maintained that vivisection is not justified by any requirement of science, and on the other, that the reasonable hope of the smallest addition to our stock of physiological facts, fully warrants even the most severe torture inflicted upon helpless brutes.

COLOR-CHANGING IODIDES.—Some time ago M. Mensel announced the discovery of two new double iodides of mercury, silver, and copper, which were of especial interest in virtue of the property of changing color upon the application of heat.

THE HEAT OF THE MOON.—The Earl of Rosse, in a recent lecture before the Royal Institution, gave some interesting information concerning the various experiments heretofore made to detect the heat of the moon, and then described his own efforts in this line, which are the latest that have been made known.

SUNSHINE AND SLEEP.—Sleepless persons should court the sun. The very best soporific is laudanum, and the very best sunshine. Therefore it is very plain that poor sleepers should pass as many hours as possible in the sunshine, and as few as possible in the shade.

TO INCREASE THE ADHESIVENESS OF GUM ARABIC.—Concentrated solutions of gum arabic as a mucilage, says Hager, possess the disagreeable property, when spread upon printing or other paper not strongly sized, to penetrate them to transparency, and in spite of this not making them adhere to other paper.

ANOTHER process for preserving meat is announced. By this method the animal is killed by felling, and immediately skinned and cleaned. It is then glazed over with a preparation of sugar and alcohol and placed in a bed of fat.

A Wisconsin man claims to have invented a machine with which wagon and buggy wheels can be made in fifteen minutes.

DEWEY & CO.,

American & Foreign Patent Agents.

OFFICE, 28 MONTGOMERY STREET, S. F.

The best, speediest, and surest method for you to obtain patents, file caveats, or transact any other important business with the Patent Office at Washington, or with foreign countries, is through the agency of DEWEY & CO., PUBLISHERS OF THE MINING AND SCIENTIFIC PRESS, SAN FRANCISCO.

To Obtain a Patent.

well-constructed model is generally first needed, if the invention can well be thus illustrated. It must not exceed 12 inches in length or height. When practicable, a smaller model is even more desirable.

Send the model (by express or other reliable conveyance), plainly addressed, to "DEWEY & CO., MINING AND SCIENTIFIC PRESS OFFICE, SAN FRANCISCO." At the same time, send a full description, embodying all the ideas and claims of the inventor respecting the improvement describing the various parts and their operations.

As soon as signed and returned to us with the fees then due us, it will be sent straightway to the Patent Office at Washington.

For Processes, frequently no model or drawings are necessary. In such case, the applicant has only to send us an exact description, and what is desirable to claim.

For designs no models are necessary. Duplicate drawings are required, and the specifications and other papers should be made up with care and accuracy. In some instances for design patents two photographs, with the negative, answer well instead of drawings.

Address DEWEY & CO., PUBLISHERS, PATENT AGENTS AND ENGRAVERS, No. 28 Montgomery street, S. F.

The Mining and Scientific Press Marching Onward.

Our careful system of compiling, judiciously condensing, and conveniently arranging into regular departments, has been heartily endorsed. It renders the paper worth more to readers, who can find handily the which interests them most.

Information for Practical Miners.

Treating on the Opening of Mines; Mining of Ores; Milling of Ores; Smelting of Ores; Separation and Roasting of Ores; Amalgamation; Saving of Gold and all precious Metals; New Processes of Metallurgy; New Discoveries of Mines; Mining Engineering and Hydraulics.

For Inventors, Mechanics and Manufacturers.

All new and important developments in Scientific and Mechanical Progress; Patents and Inventions of the Pacific States; Progress of Home Industries; Hints for Local Manufacturers; Illustrations of New Machinery; Reports of Popular Scientific and Industrial Lectures.

Our Mining Summary

Gives the progress of mining work from week to week in the various counties and districts throughout the principal mining regions of the United States, arranged in alphabetical order. It is the most extensive record of mining operations published in the world.

Our "Domestic Economy"

discuss new and important facts which should be known every citizen and household. Short and interesting articles under this heading are freely read and practiced with profit and improvement to the readers.

Liberal and Popular Scientific Journal.

Well calculated to make practically scientific men from our intelligent masses. This is our stronghold for accomplishing good. Plain, correct and pleasing language, easily comprehended by all, confined mostly to short articles, is our endeavor.

For Self-Improvement.

Every issue of the Press abounds with articles of an elevating character, to stimulate the higher virtues and nature and progressive intellects of both men and women.

Hundreds of Dollars

Are oftentimes saved to the readers of this paper by a single hint or article of information in its columns. Such instances have been repeatedly reported to the editors and proprietors during their long connection with the Press. Our paper presents

The New and Novel Developments

In the progress of this comparatively new section of the Union (but recently settled and now rapidly increasing with a population of the most intelligent and venturesome people, attracted from nearly every quarter and clime on the globe), enable us, with due enterprise, to display vigor and freshness in our columns not met with in similar journals elsewhere.

A Great Variety of Industrial Information.

In brief and fresh form, suited to the wants and tastes of the readers of this coast, which is not obtainable otherwise so timely, or in so cheap and convenient form. As an industrial publication, meeting the wants of so many kindred industries, this journal stands prominent and without a precedent.

Subscriptions payable in advance—\$4 per annum single copies, post paid, 10 cents. Address

DEWEY & CO.

MINING AND SCIENTIFIC PRESS AND PACIFIC RURAL PRESS OFFICE, 338 Montgomery St., S. F.

WAKELEE'S

Granulated Squirrel Exterminator.

[CAVEAT FILED IN U. S. PATENT OFFICE.]

A NEW & EFFICIENT POISON

For the Worst Pest of California.

If the new squirrel law is passed, farmers will be compelled to comply with its requirements and

Poison all the Squirrels

On their lands. Whether it is or not, the squirrels should be destroyed, or they will be the destroyers. This new compound has all the merits claimed for it. It is convenient and cheap. There is no danger from fire in using it. It will kill every time.

Put up in packages of one or five pounds, convenient for sending by express. Cost, \$1 per pound, ready for use. Very economical. It is so good that the squirrels like it. Testimonials from reliable parties who have tried it, will soon be published. Reasonable discount for large orders. Directions for use on packages. Owing to the chemical composition of the Exterminator it can be used without the slightest danger.

JED. T. HOYT, Agent,

is now soliciting orders, which will be filled from the establishment of

H. P. WAKELEE,

140 & 142 Montgomery St., San Francisco.

Who may also be addressed. 347-348

NOTICE.

To Farmers and Grangers.

LAIRD'S PATENT SEAMLESS BAG

WM. LAIRD & CO., Manufacturers.

BRADLEY, MARSH & CO., Agt's.

PORTLAND, OREGON.

ALFALFA!

NEW CROP.

For Sale, choice lot of fine California-grown Alfalfa, in lots to suit, for cash, at market rates. Our seed, unlike that imported from Chile, is fine and free from Mustard or other foreign seed. Vegetable, Flower, and Grass Seed, etc.

50,000 Ramie Plants, 100,000 Gum Trees.

Pine Plants, Trees, Bulbs, and all articles in the line, fresh and good. Splendid stock, at the old stand.

E. B. MOORE,

Seedman and Florist, 428 Washington Street, SAN FRANCISCO.

H. K. CUMMINGS, 1858. H. H. BALYON, 1878.

HENRY K. CUMMINGS & CO.,

Wholesale Fruit and Produce Commission House.

ESTABLISHED 1858.

No. 424 Battery street, southeast corner of Washington, SAN FRANCISCO.

Our business being exclusively Commission, we have no interests that will conflict with those of the producer. 6-3m

Superior Fruit Trees

TRUE TO NAME.

Shade and Ornamental Trees, Cypress Seedlings, Gum and Pine Trees.

ALSO, A GENERAL VARIETY OF

NURSERY STOCK,

At the Lowest Rates.

Trees and Plants securely packed to send any distance.

T. CORLEY, Nurseryman, No. 315 Washington St., SAN FRANCISCO.

LOOK!

Buy your Eggs where you can get them from the Best Imported Stock.

I am now prepared to furnish eggs for the coming season at the following rates: Light and Dark Brahmas, Buff, Partridge, White and Black Cochins, Houdans and Black Spanish, at \$5 00 per dozen; White Leghorns, Game Hens, Cuckoo, Roupen and Aylesbury Ducks, at \$6 00 per dozen; Silver Spangled Hamburgs, Golden Pened, Hamburgs, first premiums at Buffalo, 1878, Silver Spangled Bantam, Golden Bantam, Poland, Black Poland, White Crested, Gray Dorkins, first premium at Buffalo, 1874. Also, Game Imported Direct from Belfast, Ireland.

At \$2 00 per dozen, I claim to have the finest fowls in the State, and cordially invite inspection of the same at my yard. I have taken extra pains to procure the best of stock selected for me by my agent in the State of New York, who cannot be excelled as a judge of fowls. Birds of the above mentioned varieties will be furnished at very reasonable rates. Also, a fine variety of fancy fowls on hand. Send in your orders for eggs, they will be carefully packed to carry safely any distance. Also, send for Price List of Fowls to

ALBERT E. BURBANK, 41 & 41 California Market.

Yards at Oakland Point, on Chase street, near 8th, on the premises of J. Blanchard. No Eggs or Fowls sent C. O. D. 8-11

McLAREN, BRYDGES & CO.,

DEALERS, MANUFACTURERS AND INTRODUCERS OF NEW INVENTIONS FOR THE PACIFIC COAST.

Manufacture Epey's Patent Coil Wire Door and Gate Springs; Gate's Patent Oil Blacking, etc.

—ALSO—

Real Estate and General Business Agency, No. 405 CLAY STREET, SAN FRANCISCO, CAL. 3-10-10-10

W. I. TUSTIN'S

PATENT FIRST PREMIUM WIND MILLS AND HORSE POWERS.

The Simplicity and Perfection of these Machines, are the result of Twenty-Four Years' Experience in California.



Our Wind Mills are so generally used through California, the adjoining States, Territories, and in several foreign countries, that description here is unnecessary, as it is an established fact that skill is not required to comprehend their construction, or set them up and put them in successful operation.

The lumber of which the wood-work is made, grows in the forests of this Coast. It can therefore be readily obtained at any lumber yard in the country, when old age and dotage render repairs requisite, which can be executed by a person unskilled in mechanism, thus saving the cost of expensive labor.

These Wind Mills were adopted four years ago by the Pacific R. R. Co., and are now in general use on their roads, the best Eastern Mills having proved unsatisfactory.



They are very effective in light winds, and ordinary violent storms will not injure them. They are always under perfect control, run steadily, and are very powerful.

A child can start or stop them, or set them running at any speed required.

Orders filled at the lowest living prices on short notice. All work guaranteed as represented.

These Powers are complete in every detail and particular, as they possess every improvement and advantage that can be combined in such machines. The success, which has crowned our efforts for the few years past, is ample proof of the highest appreciation and confidence in our machines on the part of the public and our numerous patrons, to whom especially we tender our most sincere thanks for their many expressions of kindness and approval, which manifest satisfaction.

W. I. TUSTIN, Patentee.

Pioneer and Largest Manufacturer of the above Machinery on the Pacific Coast. FACTORY, Cor. Market & Beale Sts. SAN FRANCISCO.

SEND FOR CIRCULAR AND PRICE LIST. 3-10