

MISCELLANEOUS.

Sound Castings.

To obtain good and sound castings, in all cases, and under all circumstances, is the chief engrossing care of all foundries. There are of course many established rules and forms of procedure gathered from the experience of many years, that generally serve the founder to a sufficient extent to obtain good castings, as a rule, and to "waste" the exception.

If thoroughly practical men were to add a precise knowledge of what may be supposed to be taking place, in and out of the mold, the proportion of bad castings would be much reduced. It is not only the castings which are broken or blown in the molds—cannot possibly be used, that ought to be included under the head of unsound castings. There are, throughout the whole range of castings, delivered apparently sound and complete from the foundry, a considerable portion in which it is only a question of time as to how long they will hold together.

It is notorious that the greater proportion of break-downs in fly-wheels, castings in motion, or castings under pressure, are occasioned by some inherent defect or liability to break in the casting itself, since the broken section is frequently of much more than the requisite area to resist any possible strain that can have occurred. These are the unsound castings of which we would warn both purchasers and producers.

As to the unsoundness of castings produced by blow-holes or scum, this is usually patent to the eye of the founder, at least, though not always to that of the customer, after being put up, and can be tested by the blows of a small hammer upon any surface whose soundness may be suspected.

The tendency to form blow holes is well understood among founders and may be caused in two ways: either by the imprisonment of the air originally contained in the mold, or by the generation of steam or gases from the sides of the mold and core. It is surprising how little power of reasoning from cause to effect there is as a rule among practical men, to whom both the cause and the effect may be perfectly plain and patent.

Goods for Exhibition.

The Iron Age makes the report that a mowing machine manufacturer intends to spend \$10,000 on a single machine, to be exhibited at the Centennial, a text for some good advice to intending exhibitors generally. The advice is, that the manufacturers shall exhibit the best goods they can make every day in the week in their own shops. "Nickel plated stoves with gold trimmings, carpenter's tools with pearl handles, saws with etched blades, and similar fancy articles might be well enough in their proper places, but they should not be shown among the legitimate products of our foundries or tool shops."

DANA ON DARWINISM.—Professor Dana, of Yale, is not a Darwinian, or he is not in full sympathy with Darwin's views. He says: "There is no question, first, that geological time has been of vast length; second, that there is an historical order in the rocks of the globe, and that the process of the world's creation may be, to a large extent, read in the rocks; and third, that there has been a system of progress in the earth's living species from the simpler forms of earlier time to man. But, while adopting these conclusions in common with all geologists, I have no faith in the Darwinian scheme of deriving man through gradual development upward from the monkey, or of evolving a system of life through 'natural selection.' I deplore the misuse of science in the support of materialistic views, not uncommon among those who adopt the Darwinian hypothesis.

CHANGE OF COLOR IN ANIMALS.—Certain animals possess the power of changing their color at will, or according to the circumstances in which they are placed. This is convincingly shown in some recent experiments made by M. Pouchet, a French investigator. He chose as his subject the *Palomus serratus*, a species of grasshopper or crab. These grasshoppers, when brought ashore by the fishermen, have a rose or dark lilac color; but if they are put into porcelain vessels with black or white bottoms, they will assume colors wholly unlike. Those on the white dish become yellowish, almost colorless, as if they had just shed their skin; those in the dark colored dish assume a brownish red hue. If they are changed, the pale into the black vessel, and vice versa, they again alter their color, in correspondence with their surroundings. The change of a pale one to a dark tint was more rapid than the reverse. Thus, under favorable circumstances, a yellow, red, or rose-colored *Palomus* can be changed.

PORCELAIN.—The modern porcelain of China compared with the antique wares, shows the art has much declined. The biscuit is not so white and pure, and the glaze is rougher. The colors, too, are less bright. The materials employed now are clay, quartz, stearite and glaze. The whole of the modern Chinese wares is made at King-teh-Chen, where the potteries were first established about 900 years ago. At present there are about 120 furnaces employed—about half the original number. Of the enamels, and the cloisonne is still made at Pekin; and the cloisonne bear comparison with the ancient. Some of the best designs in effective specimens of hand, not molded work, are very artistic. A lady, Miss Barlow, in Staffordshire, has excelled in *syrrallo*, ornamented designs in gray clay. The colors of the designs being turquoise, violet, blue, olive, green, etc. The mode of firing and the material adopted rendered the tints mottled and more artistic. Lavatory fittings constitute a branch of pottery formerly quite unknown. Two kinds are known. The brown glazed stoneware and queensware.

BLOOD DISEASES.

The blood being the source from which our systems are built up and from which we derive our mental as well as physical capabilities, how important that it should be kept pure. If it contains vile feasting poisons, all organic functions are weakened thereby. Suffering upon important organs, as the lungs, liver, or kidneys, the effect is most disastrous. Hence it behooves every one to keep their blood in a perfectly healthy condition, and more especially does this apply at this particular season of the year than at any other. No matter what the exciting cause may be, the real cause of a large proportion of all diseases is bad blood. Now Dr. Pierce does not wish to place his Golden Medical Discovery in the catalogue of quack patent nostrums; by recommending it to cure every disease, nor does he so recommend it, on the contrary there are hundreds of diseases that he acknowledges it will not cure; but what he does claim is this, that there is but one blood disease that it will not cure, and that disease is cancer. He does not recommend his Discovery for that disease, yet he knows it to be the most searching blood cleaner yet discovered, and that it will free the blood and system of all other known blood poisons, be they animal, vegetable or mineral. The Golden Discovery is carried by him to cure the worst forms of Skin Diseases, as all forms of Blotches, Pimples and Eruptions, also all Glandular Swellings, and the worst form of Scrofulous and Ulcerated Sores of Neck, Legs or other parts, and all Swellings, Fever Sores, Hip Joint and Spinal Diseases, all of which belong to Scrofulous diseases.

CONFIRMED—HIP JOINT DISEASE CURED

W. GROVE STATION, I.S., July 14, 1872. DR. PIERCE, Buffalo, N. Y.: Dear Sir—My wife first became lame nine years ago. Swellings would appear and disappear on her hip, and she was gradually becoming reduced, and her whole system rotten with disease. In 1871, a swelling broke on her hip discharging large quantities, and since that time there are several openings. Have had five doctors at an expense of \$125, who say nothing will do any good but a surgical operation. July 16, 1873, he writes thus: My wife has certainly received a great benefit from the use of your Discovery, for she was not able to get off the bed and was not expected to live a week when she commenced using it, a year ago. She has been doing most of her work for about six months. Has used twenty bottles and is still using it. Her recovery is considered as almost a miracle, and we attribute it all to the use of your valuable medicine. I can cheerfully recommend it as a blood purifier and strength restorer. J. M. ROBINSON. Discovery is sold by druggists.—Com.

S. F. MARKET REPORT.

GENERAL MERCHANDISE.

Table with multiple columns listing market prices for various goods such as Flour, Sugar, Coffee, Tea, and other commodities. Includes sub-sections for 'CANNED GOODS' and 'DOMESTIC PRODUCE'.

DEWEY & CO. American & Foreign Patent Agents



OFFICE, 224 SANSONE STREET, S. F. PATENTS obtained promptly; Caveats filed expeditiously; Patent reissues taken out; Assignments made and recorded in legal form; Copies of Patents and Assignments procured; Examinations of Patents made here and at Washington; Examinations made of Assignments recorded in Washington; Examinations ordered and reported by Telegraph; Rejected cases taken up and Patents obtained; Interferences prosecuted; Opinions rendered regarding the validity of Patents and Assignments; every legitimate branch of Patent Agency Business promptly and thoroughly conducted.

Foreign Patents.

In addition to American Patents, we secure with the assistance of co-operative agents, claims in all foreign countries which grant Patents, including Great Britain, France, Belgium, Prussia, Austria, Victoria, Peru, Russia, Spain, British India, Saxony, British Columbia, Canada, Norway, Sweden, Mexico, Victoria, Brazil, Bavaria, Holland, Denmark, Italy, Portugal, Cuba, Roman States, Wurtemberg, New Zealand, New South Wales, Queensland, Tasmania, Brazil, New Grenada, Chile, Argentine Republic, AND EVERY COUNTRY IN THE WORLD where Patents are obtainable.

Home Counsel.

Our long experience in obtaining patents for inventors on this Coast has familiarized us with the character of most of the inventions already patented; hence we are frequently able to save our patrons the cost of a fruitless application by pointing them to the same thing already covered by a patent. We are always free to advise applicants of any knowledge we have of previous applications which will interfere with their obtaining a patent.

ARE YOU GOING TO PAINT?

THEN USE THE BEST.

THE AVERILL CHEMICAL PAINT

Will last three times as long as the best Lead and Oil without Chalking; is of any desired color. Is prepared to immediate application, requiring no Oil, Thinner or Drier, and does not spoil by standing any length of time. It is equally as good for inside as outside work, over old work as well as new; in fact where any paint can be used the AVERILL CHEMICAL PAINT will be found superior to any other. Any one can apply it who can use a brush, which truly MAKES IT THE FARMER'S FRIEND.

IT IS JUST THE PAINT FOR THE AGE.

It is SOLD BY THE GALLON ONLY.

One Gallon COVERS 20 SQUARE YARDS 2 Coats.

For further information send for sample card and price list.

MANUFACTURED BY

The California Chemical Paint Company,

TYLER BEACH, Pres't. M. C. JEWELL, Sec'y.

Office and Depot—117 Pine street, near Front, San Francisco. apl-ly

Ayer's Hair Vigor,

RESTORING GRAY HAIR TO ITS NATURAL VITALITY AND COLOR.

Advancing years, sickness, care, disappointment, and hereditary predisposition, all turn the hair gray, and either of them incline it to shed prematurely.

Ayer's Hair Vigor, by long and extensive use, has proven that it stops the falling of the hair immediately, often renews the growth, and always surely restores its color, when faded or gray. It stimulates the nutritive organs to healthy activity, and preserves both the hair and its beauty. Thus brassy, weak or sickly hair becomes glossy, pliable and strengthened; lost hair regrows with lively expression; falling hair is checked and plashed; thin hair thickens; and faded or gray hair resumes their original color. Its operation is sure and harmless. It cures dandruff, heals all humors, and keeps the scalp cool, clean and soft—under which conditions, diseases of the scalp are impossible.

As a dressing for ladies' hair, the Vigor is praised for its grateful and agreeable perfume, and valued for the soft luster and richness of tone it imparts.

PREPARED BY

DR. J. C. AYER & CO., Lowell, Mass.,

PRACTICAL AND ANALYTICAL CHEMISTS.

Sold by all Druggists and Dealers in Medicine.

CRANE & BRIGHAM, Wholesale Agents,

July 28-88 SAN FRANCISCO.

Ayer's Cherry Pectoral,

For Diseases of the Throat and Lungs, such as Coughs, Colds, Whooping Cough, Bronchitis, Asthma and Consumption.

The few compositions, which have won the confidence of mankind and become household words, among not only one, but many nations, must have extraordinary virtues. Perhaps no one ever secured so wide a reputation, or maintained it so long, as AYER'S CHERRY PECTORAL. It has been known to the public about forty years, by a long and continued series of marvellous cures, that have won for it a confidence in its virtues, never equalled by any other medicine. It still makes the most effectual cures of Coughs, Colds, Consumption, that can be made by medical skill. Indeed the CHERRY PECTORAL has really robbed these dangerous diseases of their terrors, to a great extent, and gives a feeling of immunity from their fatal effects, that is well founded, if the remedy be taken in season. Every family should have it in their closet for the remedy and prompt relief of its members. Sickness, suffering and even life is saved by this timely protection. The prospect should not neglect it, and the wise will not keep it by for the protection it affords by its timely use in sudden attacks.

PREPARED BY

DR. J. C. AYER & CO., Lowell, Mass.,

PRACTICAL AND ANALYTICAL CHEMISTS.

Sold by all Druggists and Dealers in Medicine.

CRANE & BRIGHAM, Wholesale Agents,

July 28-88 SAN FRANCISCO.

DOMESTIC PRODUCE.

Table listing prices for domestic agricultural products including Beans, Potatoes, Apples, and other farm goods.

FRUITS AND VEGETABLES.

Table listing prices for various fruits and vegetables such as Apples, Peaches, and other seasonal produce.

DEWEY & CO.

United States and Foreign Patent Agents, publishers Mining and Scientific Press and the Pacific Rural Press, 224 Sansome St., S. F.

MEMOR. DEWEY & CO., CAL., July 24, 1874. Messrs. Crane & Co.—Gentlemen: To-day I received the patent and other papers of my animal trap, that you so successfully worked through the patent office for me, and that I will have another application for you to make for me before long. I am well satisfied with your manner of doing business, and I think inventors of this coast stand in their own right when they do not put their business into your hands. I remain yours truly, A. M. GASS.

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 carefully packed to send any distance.

T. CORLEY, NURSERYMAN, No. 215 Washington St., SAN FRANCISCO.

Real Estate Agency,

900 Broadway, OAKLAND.

—BY—

T. B. BIGELOW, E. BIGELOW and

WM. K. ROWELL.

Parties seeking homes or looking for property for investment in this rapidly-growing city, noted for its educational and many other advantages, are invited to call on the above agents, who have a large list of very choice improved and unimproved property for sale.

They also deal in FARMING AND GRAZING LANDS and invite correspondence from any who may wish to buy or sell this kind of property.

H. S. CUMMINGS, 1858.

H. S. BALDWIN, 1872.

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.