

**HIGH EXPLOSIVES.**

Making Them is a Very Delicate and Complex Process.

Almost all the high explosives have cotton as their base. It is true that very good sporting powder can be made from wood pulp; but, as the editor of Nature remarks, "the artist would be in great difficulty if he were provided with such a propellant, because in order to obtain any sort of regularity the nitration of the wood pulp has to be kept at a low point, and the ballistics, on which the artist depends, would be quite thrown out."

High explosives are cellulose highly nitrated—that is, highly charged with nitrogen. This process consists of immersing cotton waste (that has been repeatedly tensed, picked and dried) in a mixture of nitric and sulphuric acids, in the proportion of 71 per cent sulphuric acid, 21 per cent nitric acid and 8 per cent water. After the acids have acted for the required time they are removed. The cotton is washed repeatedly and boiled several times in water. It is then pulped, partly dried and pressed into molds.

The manufacturer does his best to regulate his output, so that it shall contain approximately eleven molecules of nitrate to the quadruple molecule of cellulose, as shown in the formula, or a content of nitrogen that ranges between 12.93 and 13.65 per cent. The process is delicate and complex, for the proportions of acids and water must be exact and all must be chemically pure. Besides this, the cellulose must be of uniform grade, which is a most difficult thing to obtain.

**INDIA'S QUEER BELIEFS.**

Buddhists Would Die Rather Than Lose a Limb or Eat Meat.

India's population is 225,000,000. Practically all the races and religions of the world are represented. Ninety-eight and six-tenths per cent of the people cannot read or write. Four per cent of the inhabitants eat regular meals. The remainder eat when they can and where they can. The average native in India lives on less food per diem than any other human being in the world. Religious prejudices are intense. Men willingly die rather than submit to some dismembering surgical operation, for did not Allah command them to appear before him as they left him to come into the world?

The Buddhists will not eat meat or take even a medicine derived from an animal. They died by millions during the bubonic plague rather than take a prophylactic serum made from peeps and beef broth—because the pig from which peeps was obtained was unclean to the Mohammedans and Hindus, and the killing of this animal and the bull from which the broth was made was against the tenets of the Buddhist faith. I knew an editor in Poona, India, to absolutely refuse a \$3,000 yearly advertisement of a patent medicine because it contained peeps.

Indians are fond of sweets and last year imported over \$40,000,000 worth of sugar. Clothing is made chiefly from cotton, which is largely grown in the country.—W. E. Aughtinbaugh in Leslie's.

**When You "See Stars."**

The man who when struck violently on the head says he "saw stars" is not far from telling the truth. The fact is that there is a phosphorescent power in the eye which does not attract a person's attention under ordinary conditions, but which is distributed and reveals itself whenever the head gets a sudden shock and sometimes even in the act of sneezing. A blow on the head results in a pressure of the blood vessels upon the retina, causing either total darkness or a faint blue light which floats before the eyes, and it is in this faint blue light the imagination discerns the thousands of fantastic forms and figures that by general acceptance are termed stars; hence, while the astronomical display so frequently mentioned may be said to be entirely a creature of the imagination, there is at least some foundation for the idea.

**Six Follies of Science.**

The six follies of science are the squaring of the circle, perpetual motion, the philosopher's stone, the elixir of life, magic and astrology. In all ages men of undoubted ability have toiled early and late to unravel the mysteries supposed to be connected with these fascinating problems. It is not always remembered that such intellectual giants as Bacon, Sir Robert Boyle and Sir Isaac Newton sought the philosopher's stone. In the study of astrology Lilly was for a time even pensioned by parliament.

Most of these "follies" conferred indirect benefits upon science, for in seeking one thing their devotees discovered many another. The craze for the secret, or unknown, has still its hold upon men and is seen in palmistry and kindred cuts.—Exchange.

**Cactuses of Arizona.**

Arizona has more than a hundred kinds of cactuses, and Tucson is the center of the great cactus region of the southwest. These odd plants range in size from the noble saguaro, or giant cactus, forty or fifty feet high, to small pin-cushion cactuses an inch or two in diameter. Saguaros grow in great abundance in the foothills between Tucson and Yuma and are always objects of wonder. It is believed a large plant is at least 200 years old. The fruit begins to ripen in June and is gathered in great quantities by Indians, who make fine jam and also a pressed sweetmeat of it.

**Why He Laughed.**

"What are you laughing at?" "I was just thinking of my poverty." "Well, what is there in poverty to make you laugh?" "It just struck me that if I should by chance strike it right some day how many thousands there are who could honestly say they knew me when I didn't have a dollar."—Detroit Free Press.

**Gem Superstitions.**

It is said that the amethyst used to be worn to promote temperance and sobriety, the chrysolite to ward off fevers, the onyx worn round the neck to prevent epilepsy, the opal to cure weak eyes and the topaz to cure inflammation and keep the wearer from sleep walking.

**Local Advertisements**

**Livestock Dealer.**—Hert Carriano has engaged in the livestock business. He is prepared to pay the highest market prices at all times for chickens, hogs, cattle and sheep. If you have stock to sell, be sure and see him.

Beginning December 1, milk will be sold at \$1.25 per pint and \$2.50 per quart. Charles McFarland.

There is more Catarrh in this section of the country than all other diseases put together, and for years it was supposed to be incurable. Doctors prescribed local remedies, and by constantly failing to cure with local treatment, pronounced it incurable. Catarrh is a local disease, greatly influenced by constitutional conditions and therefore requires constitutional treatment. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, Ohio, is a constitutional remedy, is taken internally and acts thru the Blood on the Mucous Surfaces of the System. One Hundred Dollars reward is offered for any case that Hall's Catarrh Cure fails to cure. Send for circulars and testimonials.

F. J. CHENEY & CO., Toledo, Ohio. Sold by Druggists, etc. Hall's Family Pills for constipation.

**Foley's Honey and Tar for children, safe, sure. No opiates.**

**CROUP & LASH Dentists**

In Athena Monday, Tuesday, Wednesday, other days of week in Walla Walla, 2nd and Main, over Third National Bank

Dr. E. W. Croup - Dr. C. H. Lash

**S. F. Sharp PHYSICIAN AND SURGEON** Special attention given to all cases both night and day. Calls promptly answered. Office on Third Street, Athena Oregon

**DR. G. S. NEWS M. Physician and Surgeon.**

Office in Post Building. Phone, 501

**Dr. J. C. Baddeley VETERINARY SURGEON** LaBrasche Ranch Athena

**H. H. HILL Expert Watch Repairing No Job too Difficult. Satisfaction Guaranteed. WESTON, OREGON**

**D. Scott Fisher CONTRACTOR & BUILDER** Residence and Shop, Adams and 4th Sts. Athena

**L. S. VINCENT Successor to H. H. HILL Expert Watch Repairer Engraver and Jeweler**

**The Original HUMAN BAKE OVEN INC. For RHEUMATISM and Other Chronic Ailments**

**Testimonial**

I was laid up with Rheumatism from Jan. till June, 1915, and tried every thing imaginable to get relief in vain until I tried the HUMAN BAKE OVEN. My pain was all gone in two weeks and has not returned. I can heartily endorse the treatment. Signed Wm Metz, Chief Walla Walla Fire Dept., Entire top floor DENNEY BLDG., Walla Walla, Wn., Rooms for patients LICENSED PHYSICIAN. Phone 259.

**THE SQUEEZE PLAY.**

Its Success Hinges on the Batter Hitting the Ball to Ground. The squeeze play is one of the prettiest in baseball when successful. When it falls no play makes a ball team look more foolish. The play is best worked with one out, a runner on third and a run needed to either tie or win the game. Many of the best base runners when about to make the play create the impression that there is no intention of pulling it by taking only a fair lead off the base and standing still. The very moment the pitcher starts his movement the man on third tears for the plate.

If in any way the intention to use the play is tipped off or foreseen it is an easy matter for the catcher to break it up by calling for a waste ball that is so wide of the plate that it is impossible for the batter to bunt it. It is an easy matter to touch the base runner out and make the team trying the squeeze appear ridiculous. But a successful completion of the play usually puts the team in the field in the air and makes them look equally foolish.

The squeeze play does not call for a hard hitter or a good hitter, but it does call for a man with a good eye, a fellow who invariably hits the ball, even though it may not go safe. If the batsman bunts the ball in the air an easy double play is usually the result. If he is able to keep the ball on fair ground there is seldom a chance to stop the run at the plate. It is not necessary to have a fast man on third to make this play, for most of the play depends on the ability of the batsman to keep the ball on the ground.—Billy Evans in St. Nicholas.

Five representatives of the "Men and Millions" Movement, under the direction of the Christian church, with headquarters at Cincinnati, O. spent last Sunday evening and several days of the week at the Christian church in this place, and also visited many of the people in the surrounding country. These men are raising six million dollars for educational, missionary and benevolent purposes, over four millions already having been subscribed. One man gave one million of the amount. They received pledges here for several thousand dollars.

**Notice to Creditors.**

In the County Court of Umatilla County, State of Oregon.

In the Matter of the Estate of Mattie Phillips, deceased. Notice is hereby given that the undersigned has been appointed by the above entitled Court administrator of the estate of Mattie Phillips, deceased; and that all persons having claims against the said estate should present them to my attorney, Homer I. Watts, at his office in Athena, Oregon, verified as by law required, within 6 months from the date of the first publication of this notice, on Oct. 27, 1915. S. T. Phillips, Administrator.

**Notice to Creditors.**

In the County Court of Umatilla County, State of Oregon.

In the Matter of the Estate of Mary Jane Phillips, deceased. Notice is hereby given that the undersigned has been appointed by the above entitled Court administrator of the estate of Mary Jane Phillips, deceased; and that all persons having claims against the said estate should present them to my attorney, Homer I. Watts, at his office in Athena, Oregon, verified as by law required, within 6 months from the date of the first publication of this notice, on Oct. 27, 1915. S. T. Phillips, Administrator.

**Notice to Creditors.**

In the County Court of Umatilla County, State of Oregon.

In the Matter of the Estate of Alexander Kincaid, deceased. Notice is hereby given that the undersigned has been appointed by the above entitled court, executrix of the estate of Alexander Kincaid, deceased, and that all persons having claims against the said estate should present them to my attorney, Homer I. Watts, at his office in Athena, Oregon, verified as by law required, within 6 months from the date of the first publication of this notice on Nov. 24 1915. Margaret Kincaid, Executrix.

**23 Years Ago.**

[From the Press of Dec. 1 1893]

The Sons of Temperance Lodge of this place is in a flourishing condition and is rapidly increasing its membership. One member was initiated last Monday evening and four more will enter next Monday.

A large number of friends gathered at the residence of Mr. and Mrs. T. D. Taylor Thursday evening, Nov. 30, to witness the marriage of Mr. W. T. Rigby and Miss Eunice Smith. The ceremony was performed by Rev. G. W. Rigby, the father of the groom. The bride looked very handsome in a heliotrope colored dress trimmed in velvet, and orange blossoms in her hair. After the ceremony, the guests, about forty in number, were invited to a most excellent marriage supper. During the evening the young people were serenaded by the band.

A quiet wedding took place at the residence of Mrs. Jacobs, on Wednesday evening last, at which Mr. Edgar Dicoke was united to Miss Kate Kees. The ceremony was performed by Rev. W. C. Gray, pastor of the Methodist church of this city, at an early hour. After the ceremony the guests were invited to a sumptuous marriage supper. There were present: Messrs. Oatara and Sweet, Prof. Story, Mr. and Mrs. Johns, Marion Kees, Miss Annie Kirk and the bride's mother. During the evening the young people were serenaded by the band.

Thos. Page and family returned Wednesday from a trip to Portland and the Sound. Mr. Page says there is about 800 tons of damaged wheat in Tacoma awaiting shipment to San Francisco.

Dr. W. T. Williamson, of Salem, Grand Master for Oregon of the I. O. O. F. Lodge was in this city on an official visit Friday night last. The doctor was formerly a resident of Weston, and for a long time editor of the Leader.


"Scribbler's" Note: The Americans people are fast becoming a nation of gum-chewers. Only a few years ago the habit was confined almost exclusively to kids, Chinese and women, while now most any day the lord of creation, with whiskers on his face, may be seen standing on the street corners working his jaws like a flax-break, and with an energy worthy of a tetter cause. What is wanted is a Keeley cure for the gum-chewers. May the day soon come when they will drop their wax.

William Willaty Sr. made a raid on a chicken roost the other evening and captured a rooster for Thanksgiving. It is needless to add that it was his own henry that was raided.

This is the first year in the history of Umatilla county when a sucking pig was worth as much as a work horse.

Dr. I. N. Richardson is the only man in town that works on jawbones for cash. Services at the Christian Church Sunday: Bible school 9:50, G. B. Gerking director; preaching 11 and 7:30. Morning theme, "First Things First;" evening, "An Old Lesson for Modern Times." Prayer and praise service 7 p. m. Evangelistic meetings during the week conducted by home forces. Dr. W. R. Scott will have charge of the music for the services. Everybody cordially invited to come and bring a friend.

**"That's just what I've always wished a cigarette would do—satisfy!"**



The feature of Chesterfields is that they begin where other cigarettes leave off.

In other words, besides pleasing the taste, Chesterfields go further—they satisfy! Just like a long drink of cold water satisfies when you're thirsty.

And yet, Chesterfields are MILD!


It's Chesterfields or nothing if you want this new cigarette delight, because no cigarette maker can copy the Chesterfield blend—an entirely new combination of tobaccos and the biggest discovery in cigarette blending in 20 years.

*Leggett's Myers Tobacco Co.*

**"Give me a package of those cigarettes that SATISFY!"**

# Chesterfield CIGARETTES

**They SATISFY! and yet they're MILD**



**20 for 10¢**

**We Are Thankful**

—for your sake, because our own prosperity depends on what we do for you—

THAT we have succeeded, as far as we have, in making our business more of a HELP TO YOU;

THAT notwithstanding the difficulties of our business, we are more closely attaining the ideal for our mutual benefit.

THAT whereas we handle only RAW MATERIALS, yet we are now equipped to help you make such a use of those materials as will contribute to your comfort, health and prosperity

THAT we have been able to make ourselves, through our Architectural, Engineering, Plan Book and Service departments, an economic necessity to this community and thus justify our being here in this business;

THAT we have passed the experimental stage of service and can devote our efforts in the future to being of still GREATER HELP TO YOU IN SOLVING ALL OF YOUR BUILDING PROBLEMS;

THAT we can bring to pass your hopes of a home properly heated, or a BARN or a SILO or ANY AND ALL BUILDINGS;

THAT it is again "Turkey Time" and we hope that yours will be large, fat, sweet and juicy;

AND WE ARE ESPECIALLY THANKFUL THAT WE CAN BE THANKFUL FOR ALL OF THESE THINGS.

**Tum-a-Lum Lumber Company**



**Brr-r!** Chilly, changeable weather? A good oil heater will keep you warm and cosy. A gallon of Pearl Oil gives 9 hours of smokeless, odorless, cheerful heat. Prices: \$3.75 to \$7.75

## Perfection Oil Heater

For Sale by Foss-Winship Hardware Company



**Prr-r!**

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**NO COMMISSION NO BONUS NO DELAY**

**NO RED TAPE LOW INTEREST RATES**

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Corner Main and Court Streets, Pendleton, Oregon

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Capital and Surplus **\$100,000.00**

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Our Market is Clean and Cool Insuring Wholesome Meats.

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**J. R. Mathers, Agent Athena**

