

Butte, Mont., Jan. 1 .- The mine own ers of Montana are up in arms against the smelter trust and are threatening to build independent smelters unless there is a lowering of the present exorbitant rates on smelting charges at the Great Falls and East Helena plants. A meeting of mine owners has been called for the 16th inst. at Helena, a which time it is expected that a state organization will be formed. It is claimed that the present schedule is prohibitive and in restraint of trade



CONCENTRATES.

dty. But these are things to be de-cided within the next few weeks. It the smelter is to be built the Utah Consolidated management will want to get to work on it as soon as possible, so therefore the matter will have to be settled shortly one way or the other,

shipped from opinit, Cone to de for the came from opens 28 miles easi of the smelter. The copper matte carried high silver values. The next largest property in this sec-tion is the Big Indian, 35 miles south-east of Moab. There have been several reports made on this property, all fav-orable as regards the ore in reserve. The question is how to treat the ore economically. The Big Indian property is being financed by W. D. Bohm and others of Salt Lake City and New York. The property is being paid for on installments, and while the total price is about \$200,000 for the propersy alone, the plant that should be installed will cost nearly \$100,000. This property is being managed by B. W. Todd, who has had considerable experience in cop-per mining in Montana. Another property of value is owned by the Lisbon Valley Copper company, situated in a narrow valley of the same name, some 15 miles southeast of the Big Indian mine. The Lisbon Valley property has recently been taken over by Denver people, who are energetically developing it. There are two distinct beds of copper carbonate on this prop-erty, each 25 feet thick dipping at about 35 degrees. An inclined shaft has been sunk nearly 100 feet on one of these beds. Samples taken across an 18 inch streak of ore nearage 11.1 per cent copper; the remainder of the bed averages 4 per cent. The two beds are parallel, and are exposed for 1.500 feet along the surface with croppings 2.850 feet. They strike east and west. Minerais found are principally chal-cocite, azurite, malachite, and bornite. So far silver values have been scarce. Underneath the top bed of the im-presnated sandstone is an 18-inch layer of lignite coal. Twenty-six samples taken from the Lisbon Valley property gave an aver-

There is some talk of asking state aid as was done in Kansas.

## CLAIMS THE RECORD.

#### Arizona's Production of Copper in 1907 Reached Big Figures.

Phoenix, Ariz. Jan. 1.—Figures com-plied by the board of trade of this city and supplemented by private telegraph ic advices from other parts of the coun-uy, make it evident that the territory of Arizona has easily led all other districts of the world in the produc-tion of copper during the year 1907. The total value of the year's output is estimated at \$61,000,000.

### THE STEWART MINE.

### Couer d'Alene Property to Resume **Operations** Soon.

Official announcement is made by E. J. Carter, a heavy Spokane stockholder, that the Stewart mine at Wardner, Ida. east of Spokane, which was acquired b F. Augustus Heinze a little more tha a year ago, is to be reopened within i days and worked to its full capacit days and worked to its full capacity. Stockholders of the company will meet at Kellogy Jan. 29, when a vote will be taken to increase the capital stock from 1,000,000 to 1,250,000 shares. One hundred and fifty thousand shares are to be offered to stockholders at \$1 a share, the remaining 100,000 shares go-ing into the traisury. Before Hefnize bought the property the stock was sold at from 18 to 20 cents a share, and after the sale Heinze had it listed and it went above \$4 on the New York curb. From 35 to 40 cents is beid now and 70 cents asked.

went above \$4 on the New York curb. From 35 to 40 cents is beid now and 70 cents asked. In connection with the foregoing, but from another source, comes the report that the mine will resume operations under another management, and other indications are that the property has passed to the control of the Bunker Hill & Sullivan Mining company. How-ever, this is not admitted by Cartor, who is Heinze's representative in Spo-kane. He says that Heinze still holds his stock, but it is generally believed in the Cocur d'Alerces and here that the transfer has been made, as the prop-erty was recently examined by engi-neers, in the employ of the Bunker Hill concern. The policy of the Bunker Hill concern. The policy of the Bunker Hill concern. The policy of the Bunker Hill concern, the policy of the Bunker Hill concern. The policy of the Bunker Hill concern the of the drop in the price of lead, and the early reopening of the Stewart when other companies are curtailing their output or closing al-together gives color to the report of the sale. Carter, who is the second target in

carter, who is the second largest in-dividual stockholder in the Stewart, mot with M. M. Dayton of Buile, B. F. O'Neill, banker at Wallace and presi-



The mines at Park City are out of mmission

The mining exchange will resume alls tomorrow at the usual hour. Dr. H. A. Whitney has gone to Os-cola, Nev., to look after some mining nterests.

Judge Morse has appointed A. T. Moon as receiver of the St. Joe Mining company which has properties located Bingham.

The ore and bullion settlements re-ported late yesterday by McCornick & Company amounted to \$30,000; the dis-tribution being as follows: Crude ore and concentrate, \$10,000; base bullion, \$50,000.

The new wage scale adopted by the Thile Mine Owners' association went into effect today and the miners have wisely accepted the cut and continued at work. A sweeping reduction has been mide in Pioche, however, the new schedule effective today, is the same as the one in force at Ely. Miners get \$3.50 a shift, whereas they have here-tofore received \$4.50.

### TO EXPERIMENT WITH AIRSHIPS

Sydney, N. S., Dec. 31.-W. F. Bed-win, superintendent of Dr. Alexander Bell's laboratories at Baddock, wilk leave here Thursday for Hammonds-port, N. Y., where he will assist Dr. Bell during the winter in his airship experiments. These will be made with the during its winter in a with the flat aeroplane, is well as with the etrahedral kites. Dr. Bell intends to stablish an experimental station schneostablish an experimental station some-where in the porthern ther of states, where he can experiment the year around. On returning to Baddock next spring, a tetrahedral kite, with more than 5,000 cells, will be con-structed for experimenting, the Signet with which former experiments have been made, having 3,351 cells.

#### GIFT OF STUFFED HEADS.

GHT OF STUFFED HEADS. New York, Dec. 31.—Emerson Mc-Millan has purchased a large collection of stuffed heads of animals belonging to A, S. Reed, and now on exhibition at the sportsmen show here, and will present the heads to the American Zoological society as an addition to the recently started national collection of beds, which is to be made a feature of the zoo in Bronx park. Dr. William T. Hornaday, the direc-tor of the zoo already has a good start for of the zoo. already has a good start for of the zoo already has a good start for is said to be one of the finest ever made in America. Mr. Reed is a keen sportsman, and has event much time hunting in the Canadian north-west and Alaska.

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A. S. CAMPBELL.

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pregnated sandstone is an is-inch layer of lignite coal. Twenty-six samples taken from the Lisbon Valley property gave an aver-age of 3.6 per cent copper, with streaks varying from 18 Inches to 2 feet, which assayed as high as 12.8 per cent copper. One engineer estimates the present ore in reserve to be 200,000 tons of 3.05 per cent corper. This property is under the in reserve to be 200,000 tons of 3.05 per cent corper. This property is under the management of J. M. Price. The metal-lurgical part is being worked out by H. E. Blake, who has had considerable ex-verience with carbonate ores in New PARADOX VALLEY.

PARADOX VALLEY. In Paradox valley a company is ope-rating the Pyramid property. Fifty thousand dollars have been spent in building a leaching plant, which has two crushers, two rolls, two wooden barrels 7 feet in diameter and 10 feet long, lined with lead for the ore that is mixed with a solution of suphuric acid. After mixing for about an hour, the so-lution is run off to precipitating tanks through filters which remove the sand. The precipitating tanks are about 10 feet deep and 10 feet in diameter; they contain iron scrap upon which the cop-per is precipitated. During precipita-tion the solution is heated by a steam pipe. The subburic acid is brought 75 miles distant to iron casks; hence the expense of extraction must be greater

expense of extraction must be greater than the production of copper war-

rants. Another property, some 10 miles south of the Pyramid, has been opened by Grand Junction people who are exci-vating for a 50-ton furnace which will be 42 inches in diameter. Frank Bretz, an experienced furnace man, is super-intending this work, and states that the ore will smelt readily. This property is developed by one shaft 140 feet deep and two tunnels each 107 feet and 75 feet. A sample from a ledge 19 feet wide gave a wet assay of 7.5 per per cent copper.

wide gave a wet assay of 7.5 per per cent copper. The Snarize property in Paradox val-ley is being worked by J. W. Galloway, Here the vein is almost vertical with a strike northeast to southwest. The vein, about 3 feet wide, is in lime and sand-stone. A carload of ore gave silver, 9.3 ounces, and copper 31.12 per cent the net returns being a little over \$1,000. This ore was hauled 75 miles to Placer-vil's, and then shipped to the Boston & Colorado smelter at Denver,

nk-chamber, and the other three a imilarly disposed in a parallel plan just behind them. Those in each set ar fixed at an angle of 51 3-7 decrees from just behind them. Those in each set are fixed at an angle of 51 3-7 deerces from one another, but the three which lie to the rear are equalicitant between the four in front, so that since the lower forward cylinders lie at an equal inclination (2.6-7 degrees) above the horizontal plane of the crank shaft, if follows that the rangies 13-7, degrees is, be it noted, one-seventh of the complete circle, and if all seven cylinders were arranged in one plane redually around the crank-cham-ber-the present forward group of four remaining where they actually are-the lowest would then be vertical. The another the central rear one, and those on each ide of it would not only be equildistant from those on each side of it, but would actually be directly oposite to the other two which are, on the constructed en-gine, ine the back row. The main point is, however, that a two-throw crank-shaft, having its plus set opposite to one crank-shaft, having its plus set opposite to not cylinders are all coupled up to one crank-the other engine. In each side of it, but would another-like that of an ordinary two cylinders are all coupled up to one crank-shaft, having its plus set opposite to be coup-ing and that since the four forward cylinders were arranged equidistantly in a complete circle, and were to be coup-ing and the issue the four forward cylinders were arranged equidistantly in a couplete circle, and were to be coup-ing the same as though all the seven cylinders were arranged equidistantly in a couplet circle, and were to be coupled up to a single valve bing made to seven valves. The total weight of this 30-serve both as indervalve and extanet-valve for each cylinder, while a single cam is employed for operating all the seven valves. The total weight of this 30-serve, reas the at while a single cam is employed for operating all the seven valves. The total weight of this 30-serve, the crank-shaft represents 55- bas, the pistons 13 be, and the crank-chamb-er tit bs.

Horse-Power.

A very remarkable and ingenious de-ign has been evolved and built by M.

Esnault-Pelterie for the seven-cylinde motor with which he operated so high

eropiane. All seven air-cooled cylinders

are arranged above the level of the crank

in one plane about the front of th

shaft in order to render efficient lubric tion possible, but four are placed radial

ower in relationship to weight in his



## pelin This Winter,

pelin This Winter. It has been announced that the German government will ask for a supplementary credit of \$160,000 for the construction of a new airship, which Count Van Zepplein will build in the greatest haste in order to begin experimenting in the first favor-able weather next summer. This amount is in addition to the \$60,000 contained in the budget o file intervior department Payment of the latter sum will depend on the results attained with the new air-ship. It is intended in part to remunerate Von Zeppelin for the expenditure of his private fortune on airship experiments.

DUE AND LEGAL FORM.

"Since it is all over between us, Miss Berkenhead," said the young man, pale but calm, "I am compelled to ask for the return of the numerous and costly presents I have given you from time to time during the last six months, un-der the mistaken idea that I was your epted lover and you were my af-

"No. Henry," she answered; "yon can't claim them now, All you can do is to give me the necessary 60 days notice. By that time-er-perhaps con-fidence will be restored."-Chicago Tribune.

# A NUTMEG REVELATION.

A NUTMEG REVELATION. "Brush that white nowder off the nut-mess before you begin to grain 'en." which is a series and the sound and the bartender sternly to the yound it is ovster-shell powder. The na-tives, as soon as they gather the nut-mes, foll it in a powder, of ground offset of the weevils, otherwise, would eat it up. "But the powder has served its turn how, so brush it off."

It begins to look as if the liquor dealer: In the country, who are doing all in their power to prevent the pas-sage of a prohibition bill for the Dis-triet of Columbia, will have to accept a compromise in the shape of submit-ting the question to a vote of the male residents of this town. The anti-saloon societites do not want this plan dested. These abares that with such adopted. They charge that with such a heavy negro population in Washing-ton the saloons would win the fight.

NO LUCK WITH TURKEYS. During his numerous hunting trips

A COMPROMISE NOT DESIRED.

It begins to look as if the liquor

attend

During his numerous hunting trips in Virginia President Roosevelt has never been able to wing a wild tur-key, although other members of his parity have been successful in bring, .ng down one of the wily birds. The turkeys are quite numerous in the Ing down one of the why birds. The turkeys are quite numerous in the neighborhood of Mrs. Roosevelt's rur-a' retreat in Albemarle county, too, and during the season when Mr. Roosevelt goes down to Pine Knot the first thing he does is to try to catch up with some gay old flying gobbler.



While Senator Elkins of West Vir-ginia was secretary of war in the Har-rison cabinet he reuted a palatial resi-dence here. On coming to terms with the real estate agent he complained of the kitchen being on the top floor. "But," said the agent, "the house you built in New York has the kitchen to the anner story. I beard your fam

the bound in New York has the Ritchen in the upper story. I heard your fam-by was much pleased with it." "So they were," answered the sen-tor. "but the servants raised thunder about the location."

"Servants don't run a man's house, they?" queried the agent. "Well, they come devilish near it,"

ald the senator.

CLINGS TO COLD BATHS.

CLINGS TO COLD BATHS. Gen, Daniel H., Rucker, who retired in February, 1852, after having been quartermaster general, is the oldest army officer now on the government. rolls. He was born in New Jersey. Arril 28, 1512, and is therefore in his Linety-sixth year. Every month he walks unattended to draw his pay. Gen, Rucker is a well preserved man. He has taken a cold bath every morn-ing since the days of his youth. About 16 years ago his daughters thought he was getting too old for such sheeks to the system, but the venerable sol-dier declined to deny himself his cold

feelined to deny himself his cold hinges. .

# SIX BEST SELLING BOOKS. FOR MONTH OF DECEMBER.

According to reports from the leading ng book sellers of the country, the six noks which have sold best in the order t demand during the month are:

..\$1.50

Satan Sanderson, Rives The Daughters of Anderson Crow, McCutcheon The Lady of the Decoration, Lit-\$1.50

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