TEMPERED COPPER, GOLD AND SILVER A Revolution in the Manufacture of Silverware, Gold Jewelry, Surgical Instruments, Copper Electrical Equipment, Etc.

The Tempered Ductile Metals Co.

This company has been organized for the purpose of exploiting this wonderful discovery. It has a capital of 1,000,000 shares of the par value of \$1.00 each. The management of the company is in the hands of successful and intelligent men of high standing in Los Angeles. The company has equipped a factory 20x90 feet in Los Angeles for the manufacture of surgical instruments and is already crowded with orders. It will later establish a plant for the manufacture of solid silver cutlery and a large factory for the manufacture of copper castings and electrical equipments. The PROFIIS of the business are ENORMOUS and its field is WORLD-WIDE, without the possibility of any COMPETITION whatsoever. The company offers at this time through its fiscal agents, the General Securities Company, 25,000 shares of its treasury stock at 25 cents per share, for the purpose of furnishing the working capital for its surgical instrument plant. This plant has received unsolicited such a large number of orders for its product that its success is already assured. The subscriptions for this stock are coming in rapidly and we urge you to make an early investigation so that you may share in the profits of a stock which, from its increase in value and dividends, will make GREATER TEMPERED

PROFITS THAN BELL TELEPHONE STOCK. You are corproduct. The next offering of stock will be made at 50 cents

WONDERFUL UTILITY

Under this process tempered copper will displace brass and bronze in every journal bearing in every railroad and electric car in the world and on every piece of machinery that turns a wheel.

Tempered Sterling Silver

will take the place of ordinary silver in the manufacture of table knives, forks and spoons.

Tempered Gold

will monopolize the manufacture of all classes of jewelry, rings, gem settings, gold pins and surgical instruments. The governments of the world can have their coins tempered to prevent wearing and to stop the making of spurious coins.



Tempered Ductile Metals Co.



LOS ANGELES, FEBRUARY 17, 1906

GOLD BLADES SHARPER THAN STEEL Factory in Los Angeles Now Marketing Tempered Gold and Copper Instruments

N industry of very great impor-

MINING

tance in its probable effect upon Л the demand for copper has been started in Los Angeles as a result of the discovery by Mr. Z. F. Vaughn of means to temper gold, silver and cop-

VOL. XIX, No. 7

Gold surgical instruments, such as knives, hypodermic and suture needles, are now being manufactured here in quantity. The delicate gold blades are as keen as the sharpest razor. Thrown point downward they will stick into a hard table top and stand there quiver-

The Mining Review has made a careful investigation of the plant and the results attained. Samples of tempered gold and copper have been submitted to assayers and by thorough tests have been proved to be gold and copper. Samples of tempered gold, silver and

copper, either separately or in alloy,

the arts.

gerous germs,

ing Review.

NAME

THE GENERAL SECURITIES CO.,

the profits of the company.

Gentlemen: Enclosed herewith please find check for

Metals Co., at 25 cents per share, which will share in all

ADDRESS

onner have been submitted to Dr Julius Koebig of the Los Angeles

It is also thought by scientific men working a force of men in the manuthat tempered copper, owing to its facture of gold surgical instruments

crystallization through vibration which imits the life of steel. That springs of has established his factory, and is

-1

could not be used with steel needles may now be introduced directly to the blood. Furthermore, tempered gold needles are perfectly aseptic if reasonably well cared for, and steel needles

REVIEW

per share on April 1st.

are not so, because of the incessant liability of steel to corrosion. The whole effort of Mr. Vaughn's present force is directed to the manufacture of the needles and knives here illustrated. He is, however, about to add a copper tempering plant of sufficlent capacity to turn out the metal on a commercial scale. Later silver will

Weekly \$2.00 Per Annum. Single Copies, 10 cents.

likewise be tempered for use in the manufacture of cutlery. A company has been incorporated in Los Angeles under the style of the Tempered Ductile Metals company to finance necessary and very considerable enlargements of the enterprise. The success attained so far in the nanufacture of tempered gold surgical

WONDERFULLY PROFITABLE

dially invited to visit the factory and see for yourself its

L V

E

This is the last opportunity to secure stock of THE TEMPERED DUCTILE METALS COM-PANY at 25 cents a share.

The process of tempering COPPER, GOLD and SILVER by this Company has created widespread interest in the scientific world.

Send for booklet giving details of this wonderful process. Endorsements of scientists who have given it expert examination and letters from prominent physicians who are using tempered gold surgical instruments to the exclusion of all others.

Out-of-town subscribers will please wire reservations in order to secure the stock at 25 cents. The next block will be sold at not less than 50 cents per share.

Expert Report of Dr. Julius koebig Of Los Angeles

Los Angeles. Cal., Feb. 15, 1906. General Securities Company, Los Angeles, California. Last December I was requested to ex-amine and report upon the product of tempered Copper. Gold and Bilver as they are produced by Mr. Vaughn's process. The process itself being a secret one and consequently not open to investigation. I obtained in the open market a piece each oper. 18-karat gold and sterling sliver.





Dear Sirs .- Having used and given your Gold Hypodermic Needles a thorough test, I find they have the following advantages over the steel variest-No clogging, consequently no wire nec-Second-No corrosion. Third-Ease of ineduction, the largest size passing through the tissue much more readily than the small steel needle. Fourth - It leaves no mark, being aseptic, Fifth-No danger of blood poisoning.

L. G. VAN SCOYOC, M. D., Professor of Gynecology and Orificial Surgery.

San Francisco, California. Tempered Ductile Metals Co., Los Angeles, California. Gentlemen:-- I have used your Gold Hypodermic Needle continuously for the last two months, and find it extremely satisfactory. Very sincerely. CAMPBELL FORD, M. D.

> DR. R. WERNICK Los Angeles, Cal. 201-205 Stimson Bldg. February 16, 1905.

I have been using gold hypodermic needles manufactured by Mr. Vaughn in Los Angeles for the past two months, and have been greatly pleased with their efficiency and would regret very much If I were compelled to do without them. They do not rust after boiling or after using mercurial salt; heir lumen remains the same; they do not break off and can be readily sharpened. Those who are in the habit of using hypodermic needles frequently will certainly appreciate the gold needles. There is to comparison to be made between the steel and the sold needle. The steel needle is simply not R. WERNICK.

Reference : -- Your Banker or Commercial agencies.



Tempered Hypodermic Needles and Other Tempered Surgical Instruments

can be taken through the various de--14-Carat Gold. grees of crystallization which correspond to the several tempers known in tempered copper have not only a great elasticity and strength as stee By the process used these ductile springs, but that, owing to the exmetals are not only hardened but their density and homogeneity are brought treme slowness of the process of crys tallization, they will retain the spring to such practical perfection that a cutting edge is effective because of its temper for a practically indefinite peabsolute and microscopic fineness and riod. Furthermore, that owing to this smoothness. It does not tear-it divides, and for surgical purposes instruquality of tempered copper and its ments of tempered gold are said to be great tensile strength all metal parts superior to those of steel because of of machinery which are subject to this keener edge, and because no mivibration may be more profitably, and, croscopic speck of rust can harbor danas in the case of propellor shafts, more safely made of copper than of steel. Interesting and important as the It is thought that the most immeditempering of gold is from metallurgical ate and possibly the most extensive use and surgical points of view, the great in its application to copper and the widely extended use of that metal which is thereby promised. It is stated by Mr. Vaughn that temof tempered copper will be for journal bearings. It is stated that, owing to the great density of the metal, it takes a perfect polish with use and makes an

almost frictionless bearing, free from pered copper is not subject to that danger of overheating, and long outlasting either babbitt metal or brass *Reprinted by permission of the Minfor the purpose.

310 Pacific Electric Building,

Los Angeles, Cal.

Tempered Gold Surgical Blaces, Recher Than Mazors

THE GENERAL SECURITIES CO. GOLD 310 Pacific Electric Building. Los Angeles, Cal. Gentlemen: Please send ill@stratsd booklet containing full details concerning tempered copper, gold and silver, Should I find everything as represented. I may invest in Our Guarantee Accompanies the stock of the Tempered Ductile Metal Company. NAME ADDRESS

nstruments has by the testimony of netallurgists and surgeons of standing been most notable. The samples of tempered copper suitable for springs, for bearings and for rigid bars, which have been submitted for expert examination, promise a like success in a

nuch more extended field. The officers of the new company are

Mr. Wm. V. Holley, president; Mr. H. Howard Douglas, vice-president; Mr Jacob E. Meyer, teasurer; Mr. Wm. A Alderson, secretary; Mr. Z. F. Vaughn, superintendent.

with a private mark, for Mr. Vaughn to o The results obtained are set forth below; nped with a private erate on. COPPER.

In my presence part of the copper was cut into small pieces, fused in crucible and put through the "pudding" process by Mr. Vaughn, The fused metal was then poured into a mould. The so-obtained ingot was then rolled between steel rollers showing a very decided increase in hardness over the original metal. Then strips of the rolled "tempered" copper showed decided elasticity. In bending beyond the limit of elasticity the metal broke like a steel spring, the break showing a crystalline surface. A corner of the "tempered" copper will easily acratch the sur-face of the original sheet copper from which it was produced, proving a very marked increase in hard-ness. Careful analyzis failed to show any different chemical composition of the original soft copper and ical composition of the original soft copper "tempered" copper. hemical



A plate of 18-karat gold shaped like figure was tempered by Mr. Vaughn on one side of the line B., while the other side was left in its original ate. The unaitered half could easily be ham-ered out on an anvil. The "tempered" half had a state. mered out on an anvil. steely ring and very marked resistance when ham-mered. The "tempered" half had considerable spring elasticity, which was absent in the unternpered half.

I had a knife edge put on the two lines A B and C D respectively. The knife edge on the "tem-pered" side could be used for shaving, sharpening pencils, cutting thin sheet copper without indenture on the edge, while on the unaltered side the while became bent and useless in the first attempt of cutting the wood of a pencil.

SILVER

The test of sterling silver was a complete repetition of the gold test, with identical, although not quite as pronounced, results.

In addition to the above tests, a case containing various surgical instruments, such as scissors, scals, hypodermic needles, etc., manufactured by Vaught, was submitted to me. The working parts of all these instruments were made of karat gold. They all snowed spring elastic spring elasticity, keen cutting edges and marked resistance against wear and tear. They combine the working ca-pacity of steel instruments with the great advanage of case of sterilization and non-corrosiveness. As far as my tests have sone, I consider that the

products of Mr. Vaughn's process for "tempering" gold, silver and copper fully sustain all the claims which he puts for (Signed) DR. JULIUS KOEBIG, Ph. D., Ch. E.

Stock Is Now as cents a Share. After April 1st the Price Will Be Advanced to so cents Per Share.

Each Certificate

of Stock.

William V. Holley, President, and J. E. Meyer, Treasurer of the Over half of the 25,000 shares allotted to Salt Lake City has Tempered Ductile Metals Company, will receive subscriptions for been subsceibed during the day and we would advise those destock at Knutsford Hotel, Parlors F and G, up to 10 o'clock Tonight. siring some of the stock to call before 10 o'clock this evening.

THE GENERAL SECURITIES COMPANY FISCAL AGENTS

310 Pacific Electric Building, Los Angeles, Cal.