IMPORTS OF GEMS TO UNITED STATES

Reports concerning the precious stone industry from consuls in all parts of the world are summarized in a pamphlet issued by the department of commerce and labor.

The imports from the several countries into the United States during the year ended June 30, 1903, totaled in value \$31,479,223, the countries from which they came being principally Austria-Hungary, Belgium, France, Germany, Netherlands, Switzerland, United Kingdom, Costa Rcia, Mexico, Brisish Guiana and British India.

In this total, diamonds figured for \$26,507,786, the remainder being divided among rubies, sapphires, emeralds, opals, turquoises, beryls, crysolites, tourmalines, cats eyes, peridots, olivenes, spinels, amethysts, topazes, garnets, moonstones, lapis, lazuli, rose quartz, spodumene, sphenes, sunstones and Amazon stones.

The diamond industry of South Africa completely overshadows all other branches of the precious stone industry of the world. The entire diamond output of South Africa is exported from the Cape of Good Hope to London; yet, strange to say, it finds no place in the British official publications showing the imports into the United Kingdom.

After South African diamonds leave the Cape of Good Hope all official record of them seems to be lost. The only record of the exports of these diamonds is the attestation of the Cape of Good Hope custom officers that over \$26,000,000 worth are annually exported to London.

Diamonds do not appear among the exports from the United Kingdom, save to a very small extent. British statistics make no mention of dia monds exported to the Netherlands, Belgium and France, nor do the official publications of those countries note the import of diamonds from the United Kingdom, although practically all the diamonds imported into these countries are from South Africa, shipped through Lon-

As the majority of all South Afri can diamonds, after passing through the hands of European traders and lapidaries, find a market in the United States, it follows that American dealers and purchasers have as much interest in the trade in them as even the London, Austerdam, Antwerp and Parisian dealers and manipulators who buy and work them over and sell to American dealers.

business is the closest and most powerful of trusts, for not only is the trade conducted in au "underground" way, concealed from all public scrutiny, but it seems to be managed independently of all custom main point definitely established is houses intervening between Cape the fact that the doubts which have Colony and the United States.

Nearly one-half of the cut diamonds imported into the United States come from the Netherlands. There are in Amsterdam more and larger establishments than in the quite equal to those obtained by rest of the world combined for the the wet method, provided due correcmanipulations and processes of clean- tions are made for slag and cupel ing, cuttnig and polishing "rough losses. stones," from which the brilliant is turned out.

Cape Town, mlies from mines in the world, are situated. feather litharge the volatilization is

200,000 acres of land, employs 15,- tures, as the volatilization may then sumes each mouth in the "com- in the case of a quartation wiley. pounds" 25,000 pounds of mutton The loss of gold by absorbtion is very and 200,000 pounds of beef and turns important, and is influenced, far out 220,000 carats of diamonds a more than is generally supposed, by month.

thysts and rubies are found. Dis- is silver. monds, beryle, chrysoberyls, chrysolarger extent near Dagageu. Agua brightening. Furthermore, it in Brazil.

stone: mined in | British Guiana. Many small saphires, running from in the search for diamond, but these are considered of no commercial value and are not saved.

stones, but the emerald is the one stone mined in that country, and large quantities are taken from the Muzo mines, situated in Boyaca, 70 miles by mule road from the Magdales river and 670 miles from the Atlantic coast. The rental paid to government Columbia

date, but only of late years on large scale. About five years ago mine, extensively worked | 200 years ago by the Spaniards, was rediscovered by means of old records, and, according to expert reports, is likely to compete with the Muzo group in production.

CRUCIBLE ASSAY OF TELLURIDE ORES

Mining men in certain districts Evidently this whole diamond of the United States will be interested in Bulletin No. 253 of the United States geological survey, in which the subject of inquiry is the accuracy of the crucible assay method for telluride gold ores. The been entertained as to the accuracy of the dry method are not well fouded. It is clearly determined that the fire assay by crucible for gold telluride ore gives results which are

and the same of the same

that absorption. At a temperature which the De Beers, the greatest diamond allows the formation of abundant Here many of the most responsible negligible, or is perhaps compensatpositions are occupied by Americans. ed by retention of lead. The case is The De Beers company occupies otherwise, however, at high tempera-000 natives and 25,000 whites, con- average one-half of that by absorption slight changes in temperature. It is In the Babia district of Brazil, greater with pure gold and alloys diamonds, sapphires, topszes, ame- poor in silver than with alloys rich

The experiments of Messrs. W. F. lites, tourmalines, t. topazes ; (rose Hillebrand and E. T. Allen, the colored), amethysts and garnets are authors of the bulletin, failed absomined in the section of Brazil lutely to show the need for a higher tributary to Rio Janeiro. In southern termperature at the end of copella-Brazil diamonds are mined to a tion with gold beads than with those limited extent near Farnea, in the of silver. The most exact results state of Sao Paulo, and near Tibagy, were obtained when feather litharge in the state of Parana, and to a was still abundant at the time of Suja and various other points in altogether unnecessary to have gold Southwestern Minas Geraes and at beads in the muffle for some time various points in Goyaz. Hyaline after brightening in order to remove quartz (Brazilian pebbles) and, to a the last of the lead, for there is no more limited extent, citrine quartz loss in weight from so doing, but if (false topaz) are mined at the Serra anything, a ver, slight tendency to dos Cristoes, in Guyaz. Agates and increase. The results on absorption, amethysts are gathered from the sur- as influenced by the amount of lead face at varcius points of Rio Garne do used in cupellation, were incon-Sul. There is no fishing for salt- cluisve. The error caused by the water or fresh-water pearls anywhere retention of lead in the beads is serious, if the result of two careful Diamonds are the only precious tests are to be depended on, which shows 0.30 and 0.37 per cent of lend. The amount of this retention 20 to 30 to the carat, are encountered is not lessened by leaving the beads in the muffle for some time after brightening.

Sliver can be completely extracted Columbia produces various precious from quartation alloys by nitric acid, but more than two repetitions of the soid treament and subsequent washings are called fo., if any certanity of complete exatration is to be expected.

Tests made with mixtures of pure nitrous and nitric acid, show that has the solvent action of acid is so slight ranged from \$250,000 to \$300,000 a if indeed there is any at all, that it need not be considered as a possible These mines were discovered by disturbing factor in parting. It was the Spanish in 1555 and have been similarly shown that the losses in worked intermittently since that parting with pure nitric acid, whether traces of gold really dissolve or not, may be ignored, in an ore assay, at least.

This bulletin, which is entitled "Comparison of a wet and cruicible fire methods for the assay of gold telluride ores, with notes on the errors occurring in the operations of fire assay and parting," is among the survey's free publications. It may be obtained on application to the director of the United States geological survey, Washington, D. C.

Mining Crook Arrested.

C. R. Griggs, wanted for alleged frauds whereby ne secured \$30,000 in Nome mining swindles from many parties in various parts of the country was arrested in Portland Saturday. He located many claims in the Nome district sold interest in them, took purchasers in specially chartered vessel to show the mines, but disappeared before their arrival. The caims were always found to be netitious.

freeze-Up at the Dixie.

A sudden cold snap at the Dixie mine, near Quartzburg, owned Zoeth Houser, has delayed the The gold losses in the slag is opening of the new Dixle five stamp very small, but the cupel losses are mill. It was Mr. Houser's inten-Diamonds are the only precious very appreciable. The cupellation tion to put on a double shift but stones found in British South Africa. | loss of gold by volatilization is gener- | the freeze forced a suspension of It is in the city of Kimberly, 674 ally slight as compared with that by all but underground work.

KING SOLOMON'S MINES LOCATED

The mines of King Solomon, sung and told of in psalm and story, have been found at last. The country mentioned in the Bible as the Land of Ophir, where the gold was so plentiful that Solomon, when the Imperial treasury ran low or there was a temple to be decorated, had to but order the captain of the palace guards to take an army of slaves and bring back such wealth to the temple as never a Rockefeller or Morgan dreamed of, lies in the northern part of Rhodesia, in the country of the great Zimbabwe, if the generally credited reports of R. W. Hall, F. R. G. S., an English archaeologist, are to be taken as true.

Mr. Hall has but recently returned to London, after two years spent in delving into the ruins of what is supposed to have been the city of Ophir of Biblical times. His researches have settled to the satisfaction of all scientific men the mines of King Solomon and the wealth of the kingdom over which ruled the beautiful queen of Sheba.

In the rains of the old city, Mr. Hall has found evidences of a wealth of gold beyond the dreams of the many who have lost life and reason on the sands of Sahara, and the jungles of Mashonaland searching for the gold of Ophir. Apparently gold was the most common thing in this city.

The floors of the houses were built of it, the utensils of the home, cooking pots, drinking cups, food bowls and knives were all made of the precious metal. All the ornaments found in the ruins of the buildings and tombs are of gold and of excellent design and make.

The existence of this wonderful ity of ruins in the heart of Africa was first known in 1510. In that year Arab gold, ivory and slave traders found their way into this region and brought back tales which the early Portuguese heard of and gave to the world. Then the ruins were still standing nearly intact, but no white man ever penetrated into the country to gaze upon them in this state. From then the ruins were lost sight of until in 1868. when Adam Renders, an intrepid elephant hunter, following his native hunter far into the continent, rediscovered them. By this time the sands of the desert, carried by the winds of hundreds of years, had swept down upon them and buried them. — Exchange.

Gold King Will Resume.

The Miner is in receipt of a letter from President W. F. Calvert, of the Gold King Mining company, the general offices of which are in Seattle and the properties in the Cracker Creek district, south of Bourne, saying that though work has been suspended for the remainder of the winter; the company will start early in the spring with a big force of miners, to develop the mine on a large scale. The work already done demonstrates that the property is a valuable one and justifies the extensive development which has been planned and will be executed during the coming sesson.

John Arthur came down from the Imperial mine last night. Martin to a li Engelig them: