## CHEAP AND EFFECTIVE ORE REDUCTION.

Perhaps in no other i dustry is there so much waste and expense as in that of reduciog ores and extracting from them the more precious agredients. Devise as we may, there is always a certain percentage of the desired articles that cliugs tenaciously to their loug-time associates and cannot be separated therefrom; this circumstance, in councel a with the ex-peuse, has ma e the milling or smelting of low-grade ores below a certain limit out o the question, and thus a large quantity of treasure in a widely utifused state is altogether undisturbed. The amount of such uncovered wealth in Utah Territory is of course only a conjecture; but that it amounts to enough to square off what is le't of the nat onal debt-something over a billion -there would seem to be uo doubt. Under such circu-ostances inventive skill has been put to and kept on a strain to devise some means of at once increasing the percentage of metals extracted and making the process making the process cheaper, and that we are destined to reach this great desideratum as d at a not very distant day, is well assured.

A new process has been recently patented by Mr. Gervase Brown of this city, aud it is now in operation at the Couklin Sampling works. Dry pres from Utab, Idaho and Nevada have been tented by this process by J. C. Garviu, Esq., of Leadville, Colo-rado, a geutieua of maoy years ex-perience in the reduction of ores exrrying the precious metals. There bave been several working tests made uoder this process of different grades of sulphide ores, carrying both gold aud silver, which were reasted, after pulverizing, from five to twenty minutes, and the result showed a saving, after leaching, of 99 per cent of the assay value. In or e test made in the mill at the Couklin Smelling works, the ore was put through a twenty mesh screen and roasted for five minutes, after which it was put in the leaching tank for eight bours, and the result showed a saving of 99 per cent of the silver and 90 per cent of the gold. Auother test of sulphido ore carrying 50 per cent of iron and copper pyrices, \$36 in gold and 18 ounces in silver, was reasted twenty minutes, in the leaching tauk ten hours, and there was nothig but a trace of either gold or silver left in the tailings. These tests were made under more untavorable circumstances than would exist in the treatment of large quantities in 8 steam to heat the solution and hold it at a proper temperature, which is very essentiab is very the best Gervase Brown process, it has been demonstrated, will treat quickly and successfully all dry gold, silver and copperores. The copper is of our pure by itself, and the gold, silver and lead are got out tour there and a successful to the sold. results. are got out together and run into bullion, some of which has run from \$2800 to \$8000 per ton. This process simply reduces any kind of ore into builton at a cost of \$1.50 per ton, unless the ore carries pyrites of iron, in which case there is incurred an addi-

gold, silver and tend are separated, it runs, as already state i, from \$2800 to \$8000 per ton. The cost of a 100 ton plant is about \$5000. If the o e is very rebellious and has to be rosted, the roaster will cost about \$800 additional.

An interview with the inventor in this city was the means of rativying the toregoing, who is not only willing to explain the workings of the new process but to show its mechanism an f results. It would seem to point to something of a revolution in our procreases of reduction, and thus be the means of bringing any number of mini g properties at present obscure and unworked prominently an I profitably before the public. Papers evoted exclusively to mining and its con-comitants speak in the highest terms of the invention, and it would seem as if by this and other means a new condition of things was upon us. Now let some one invent a cheaper, more thorough, more rapid and less daoger-ous meth -d of extracting ores from the bowels of the earth-to which complexion we may come at last-an 1 the wealth of this favored land could not be measured.

## SCARED AT A SELF-RAISED SPOOK.

A dispatch from Washington last Saturday night, alluding to some alleged anxiety on the part of Dr.Geo. L. Miller, formerly editor of the Omaha Herald, to bring a out the admission of Utah as a state, has the usual effect in this city of throwing the editor of the Tribune into many kinds of convulsions, and causing him to indulge in maudlin asseverations that the genial doctor is "a Mormon attorney," if not "in fact a member of the Church of Jesus Christ of Latter-day Saints." Of course the Tribune does not believe its own words in either instance; for it knows that "Mormon at'or-neys" are not employed to press statehood, and that "Mormons" with glad unanimity are content to let the whole matter rest until "non-Mor-mons" are ready to press it. Our own opinion is and the evidence fully justifies it, that the e itor of the Liberal organ kicks up all this tuss about imminent statehood or the sole purpose of hastening it as much as possible; it gives him a constant topic upon which to comment and is the last refuge for his particular sort of criticism. It must be in the highest degree paiutul to his frienus, as it is certainly pitiluito the rest of the com-munity, to see an otherwise bright mind thus resolutely bent on disclosing its own decrepitude.

## AN ERRONEOUS IMPRESSION CORRECTED.

successfully all dry gold, silver and copper ores. The copper is of out pure by itself, and the gold, silver and lead are got out together and run into builion, some of which has run from \$2800 to \$8000 per ton. This process simply reduces any kind of ore into builion at a cost of \$1.50 per ton, unleas the ore carries pyrites of iron, in which case there is incurred an additional cost of fifty cents per ton. The builion produced is fine, and when the in New York City particularly the

ourrent tradition informs us that at least nine out of ten policemen are Irishmen; that they are made such after having been upon the soll a ridiculously short time; that they hold a large number of other and more profitable public positions; that they are all Democrate because of a natural instinot to be "ferninst the government," and so on. This is a most fruitful theme for the politician, the romancer and the playwright, the last named particularly. What kind of a play would it be that didn't have a Hibernian in it in one or another capacity, but preferably as a 'policeman with red whiskers and a mouth like the entrance to the Mammoth Cave? It is all a pleasant (but in some cases a malicious) fiction, though. The New York Sun calls attention to

the fact that an old tradition bas been overturned in the police department of that town by promoting to a cap-taincy a policeman whose Christian name is Patrick. It appears that in all the years that the department has been in existence that famous cognomen has never appeared in the list of police precinct commanders in New York. It might also be as well to add to this morecau the in-formation that New York's "finest" contains a decided minority of Irishmen, and that there are several promi-nent Irish oitizens of that and other places who are not only Republicans but thorough-going and uncompromising ones. Patrick Ford, editor of the Irish World, is one of these; Patrick Egan, known to both fortune and fame as our minister to Chili, is auother; General Connor, who died bere a year ago nearly, was one, and they are really quite numerous. We don't expect that an idea as thoroughly We engrafted upon our prejudices as the oue named will cease or even be abated to some extent because of this exposition; but for the sake of having things right and undeceiving those who have all along believed what they heard on that subject, it is proper that it be made nevertbeless.

## THE WORD BAYOU.

Prof. George Heipl, a member of the editing committee of the Dialect soclety and in charge of the depart, ment of English philology in the Ann Arbor (Mich.) university, sends the NEWS a commu leation which we append entire. The matter, he says, is one of historical interest, inasmuch as the word is supposed to be in use only in that part of our country which once constituted "New France," whereas it is found here and there all over the country. The letter is otherwise self. explanatory:

Dear Sir.-I write to enlist the assistance of your readers in determining the geographical distribution of the word "bayou." I do not refer to the use of the word in literature or to anyone's knowledge of the word if derived from that source; but I desire reports from those of your readers who know some piece of water or of land that is locally called a "bayou." The best results will be obtained from direct answers to the following questions:

ing questions: 1. Where (at or near what town and in what state) is the bayon?

2. Describe what it is.

3. Is the word applied to one bayon,

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