development Colorado naturally leads in the richness and | It is suggested that all the penal advantages of the old variety of her exhibits. This State has suddenly risen to treadmill system may be regained, with hetter economic rethe first rank as a silver producer, and stands close to the sults than with the factory system, hy attaching dynamohead of the list of Gold States. In the relation of production | electric machines to the cranks, and storing electrically the to area Colorado holds the first rank; for gold and silver energy developed. In this way the prisons and penitenti- fatal, even in the animals most prone to it, may at least be combined she stands at the head, and likewise for silver aries would be converted into sources of brute energy to be alone. Exclusive of coal and iron her metallic product the sold for outside use in running machinery, electric lighting the fact of the recovery of affected animals may afford an census year was twenty-two and three quarter million dollars, systems and the like. Black well's Island, for instance, now and nearly if not quite as much last year. Lake county, maintained at great cost as a barbor of refuge for drunkards which yields more than half the total product of the State, is and other petty offenders, sent up for ten days or a month cine nine cases which he had collected of well-authenticated richly represented in the exhibition, but not quite so brill at a time, would become a valuable source of convertible recovery from rahies. (1) M. Ménecier inoculated two dogs liantly as the newer district of Gunnison county, which has power to be sold for industrial uses. The "rounders" might and a rabbit with the saliva of a rabid dog; all three died required an annex to receive the excess sent by the enthusi not like the place so well, but the honest public would like from rahies, but the dog from which the saliva was obtained astic miners. The Gunnison exhibits include thousands of it better. Ten days in the treadmill would soher off a recovered. (2) Decroix inoculated a dog with the saliva of pounds of rich carbonates, great blocks of ruhy silver, native " beat" as effectually as ten days of idleness, and in the one suffering from rahies; the latter died, the former became silver, iron, coal, and marble. For the transportation of interval he might help to store up many "foot-tons" of avail affected with characteristic rabies and recovered. (3) Some one block of galena weighing 4,000 pounds a special road able energy. With prisoners under long sentences the plan | saliva was obtained from a man some hours before he died had to be constructed over the mountains. From the other might not be so profitable to the State, but it would obviate from hydrophobia, and with it a dog was inoculated; the mining districts of the State generous contributions of gold, what is becoming the source of much social and political animal presented well-marked symptoms, hut recovered. silver, lead, and copper ores have been sent to the exhibi- controversy. Skill wisely directed is worth more than mere (4) Reg of Lyons recorded the recovery of a dog with furi-

thickness; mineral wax from the Wabsatch Mountains; | make up for the loss through the less profitable employment | the attacks increase in frequency and intensity during two marbles in great variety, and other minerals testifying to of a few skilled hands. the vast undeveloped wealth of the great basin.

silver, gold, copper, and lead ores, turquoises, and small A correspondent residing at Mendoza, the capital of the never met with an instance of recovery are scarcely justified specimens of all the minerals found in the Territory; also a province of the same name of the Argentine Confederation, in denying the occcurrence of such cases described by those fine display of native jewelry, Pueblo pottery, blankets, etc. calls attention to the promising deposits of minerals and Grant county sends specimens from two hundred mines, mineral oil in that little known region. Mendoza lies close of which M. Decroix was president, has made, since 1874, a and other counties are represented by ores from a hundred to the Chilian frontier at the foot of the Andes, in latitude | host of experiments with various substances of reputed mines or more each. The Arizona exhibits come mainly 33° south, longitude 69° west. It is soon to he brought into value in rabies, three of them with pilocarpine, and every from the Tombstone District and from Pima and Pinal coun- | closer communication with the coast and rest of the world by supposed remedy which they employed appeared actually to ties.

twenty three to twenty-five per cent. A seven ton block of munication will make the region, our correspondent thinks, galena is to be added to the exhibits from this territory. an exceedingly promising one for investment and enterprise. Mine, assaying 3,339 ounces silver to the ton, with a large spurs of the Andes, on an open plain, about ten leagues southassay of gold. Another specimen yields 2,905 7 ounces of west from Mendoza, at a place called La Sierra de Cacheuta. silver and 21.88 ounces of gold. The Contention property Some of the oil collected on the surface of the ground showed exhibits a sample of telluride of gold and horn silver that on analysis: assays \$1,762.10 gold and \$12,378.15 silver. A specimen from the Grand Central Mine, Tombstone District, weighing 115 pounds, runs \$11,923.22 to the ton, of which \$2,286.29 is gold and \$9,535.93 silver.

by specimens aggregating many tons, among them a block would find it easy to command the large home market, and asserts that if these conditions could be secured, he would of soda from Wyoming, weighing 500 pounds, and Montana be able also to export largely to the adjoining republics of far rather suffer from hydrophobia than from many other ores assaying as high as 3,300 ounces of silver.

Though presenting less of novelty, the agricultural displays are large and attractive; and the same may be said of In the immediate vicinity of the oil springs, precious inactivity in dogs, the same lesson in the case of the disease the machinery departments, which comprise a great variety metals are found in considerable quantities, and a large in man. The administration of a drug to the human sufferer of crushers, amalgamating machines, pumps, engines, ex- amount of silver is extracted in a desultory sort of way from cavators, and other appliances for raising and reducing the 'a mine close at hand. buried wealth of the mountains. The exhibition will remain open until October, and part of it is intended to be permanent. ----

PRISON ELECTRICITY.

Opposition to prison labor is not altogether unreasonable from the standpoint of the artisan whose trade is invaded advertently stated that in the suit of the Detroit Lubricator the human subject obtain more closely in the herbivora than and the products of whose labor are undersold by contract- Company against a concern styled the American Lubricator in the carnivora. It is very desirable, in the case of any ors employing convicts. Yet to the public at large the Company, the verdict was in favor of the latter. It should recovery from rahies, that it should be ascertained at what maintenance of large numbers of prisoners in unproductive have stated just the contrary. The verdict was in favor of date the saliva ceases to be infectious, and whether the disidleness would appear still more outrageous, indeed not to the Detroit Lubricating Company, fully confirming and sus-ease can be communicated after the animal has to all apbe thought of.

munity should be made self supporting, however, is not presiding. The patent of the Detroit Lubricator Company, hite of healthy animals.-Lancet. more simple and reasonable in theory than it is difficult to sustained, as above stated, by the Court, was granted May put into practice. It is particularly difficult with those who 22, 1877, number 191,171. The invention has proved to be most need the discipline of labor-the petty offenders who very valuable in the economy of the steam engine, and is fill our police courts and penitentiaries under short time being very extensively adopted. Persistent attempts to

The Copper Queen Mine sends a pyramidal mass of cop- close to the city are described as immensely valuable, yet

Volatile combustible matter	91 [.] 66
Fixed carbon	7 ·24
Ash	1.10

price of kerosene at Mendoza is \$5 a can.

The climate of the region is temperate and salubrious, and allows the production in perfection of all European grains and fruits.

Lubricator Litigation.

taining their rights. The suit was brought in the United That offenders against the peace and property of the com- States Court, Eastern District of Michigan, Justice Mathews

Recovery from Rabies

On more than one ground the possibility of the recovery of dogs from attacks of rabies is of great importance. The demonstration that this terrible disease is not invariably welcomed as affording a ray of hope for therapeutics, while explanation of many mysterious outbreaks of the disease. M. Decroix lately communicated to the Académie de Médetion, the baldest enumeration of which would fill columns. energy, and a good boot or hat may sell for more than the ous rabies, due to a hite from another rabid animal. (5) A The exhibits from Utah rank next to those of Colorado in energy the maker could store up in the same time in a military veterinary surgeon, Laquerrière, has recorded the variety and volume. About fifty productive mines and Plante cell by turning a crank. But the storage cell would case of a dog affected in consequence of a bite from an aniover a hundred prospects are represented. The majority never give offense to the citizen who was trying to support a mal unquestionably rabid. The destruction of the dog was are silver-load ores; among the rest are ores of antimony- family by the voluntary production of boots or hats, while ordered, but the owner refused consent, and the dog reone block of 3,000 pounds assaying 60 per cent; bismuth; the indirect economy that would flow from a simplification covered without treatment. The four remaining cases were a 500 pound block of sulphur, nearly pure; great masses of of prison work, with the prompter utilization of the strength of recovery from rabies, in man in three cases, and in the iron ore; brown coals from beds of three to thirty feet in of criminals of all grades and conditions, might more than horse in the last. Decroix points out that in furious rabies

or three days, then attain their maximum, and disappear in twoor three days more, whereas death does not occur until The exhibits from New Mexico embrace a great variety of Oil and Mineral Deposits at Mendoza, South America. the fifth or sixth day. The eminent authorities who have practitioners who have seen them. The Rabies Committee. the nearly completed Andean Railway. The mineral deposits hasten death by the violent paroxysms which it caused. The conclusions of M. Decroix are that it is experimentally deper ore weighing two tons. It is a carbonate, assaying from almost entirely neglected. The opening up of steam com- monstrated that rabies may terminate in spontaneous recovery. Up to the present day no agent has made good its claim as a remedy for rabies. The cases of recovery attri-Some of the richest ore is contributed by the West Side | The petroleum deposits are found at the foot of the first huted to this or that agent may be, with equal justice, ascribed to the spontaneous termination of the disease. The dogs which recovered in the experiments carried on by the committee were left at rest, and, since the administration of medicines usually provokes convulsive seizures, it seems desirable, according to our present knowledge, to leave persons affected with the hydrophobia in the most perfect possible calm, trying experiments only upon animals. In abso-As all the kerosene used in the republic is imported from lute quietude and obscurity the paroxysms are far less ter-Wyoming, Montana, Dakota, and Idaho are represented the United States, it is believed that a refinery at Mendoza rible than when medicines are administered, and M. Decroix

Chili, Peru, Bolivia, etc., and to the Brazilian Empire. The disease. It may, however, be observed that we are scarcely justified in drawing, from the superior results of therapeutic by the skin or rectum, or sometimes even by the mouth, may be effected with far less disturbance than in the case of the dog. Without doubt, however, he is correct in insisting on the absolute importance of perfect tranquillity, and of the avoidance of everything which may in any degree help to excite the paroxysms. It may be doubted also whether dogs are the best subjects for therapeutic experi-In a paragraph in our number for July 22 last, it was in-ments, since it is probable that the conditions met with in pearance recovered. This is a not improbable explanation of the occasional alleged occurrence of the disease from the

Is the Gila Monster Venomous?

In the SCIENTIFIC AMERICAN of December 20, 1879, there sentences. It is not easy to find useful employment for infringe appear to have been made by the concern styled the was figured for the first time the large lizard known in Ariunskilled tramps, drunkards, station house rounders and American Lubricator Company, who carried the folly so far zona as the gila monster, and to science as *Heloderma suspec*-the like, who make up the large portion of the criminal that they continued their infringements after a verdict and tum (Cope), or horridum. Among the Mexicans this reptile is

massed and employed are such as to yield results not at all sides having to pay costs. pleasing to those who are employed in the same trades outside of prison walls.

escent Railway Carriage. Originally the clause "hard labor" in the sentences of ; malefactors contemplated labor purely as a punishment.¹ It was not productive labor. The convict was put into a the Balmain phosphorescent paint, is included in the train, harely possible that our American naturalists have prejudged treadmill or set to turning a loaded crank, no attempt being which leaves Liverpool Street station for Rotherhithe, via made to utilize the energy exerted. The treadmill has been the Thames Tunnel, at 11:S A.M. Although only one-half displaced partly for sentimental, partly for economic reasons. of the available space of the carriage is painted, the phos-The convicts hated it, and no useful result came of it. The substituted factory system yields better results, and to distinguish small objects when passing through the tun- hill three miles from Lerwick was struck hy lightning, and worse. Prison labor is now productive; but it is apt to nel; and, moreover, the light is powerful enough to enable large masses of rocks and debris, estimated to weigh 400 tons, interfere grievously with prison discipline, and also with a person to read the indication of an ordinary watch. It is were thrown down on to the public road immediately below the rights, real or fancied, of honest labor, as may be seen probable that the railway companies will be enabled to effect and stopped the traffic. At the spot where the lightning in the universal condemnation of prison labor by trades unions. escent paint.

elasses and ultimately furnish most of the long term convicts. an injunction was obtained against them ; the final result supposed to be venomous, and marvelous stories are told of The latter can be taught the simpler trades, and, under the being that the principal members of the concern were its pestilent breath. Our naturalists, however, declare the contract system or otherwise, made to pay for their keeping brought up before Judge Brown, of the U. S. Court, in animal to be harmless. From the account of the specimen or more, though the conditions under which such labor is 'February last, adjudged guilty of contempt, and fined, he- that has recently reached London (see page 135) it would appear that the naturalists of the Zoological Gardens there are satisfied that the reptile has a mouthful of teeth all sup-A Ride through the Thames Tunnel in a Phosphorplied with venom. The evidence given in support of that view, however, is not at all convincing. It is to be hoped At the present time a railway carriage painted inside with that the matter will now be more fully investigated. It is the case.

EFFECTS OF LIGHTNING .- During a recent heavy thunderphorescent light is quite sufficient to enable the passengers storm in the Shetland Islands, which lasted several hours, a a considerable saving in gas and oil by using the phosphor- struck there is a deep rut extending down the face of the hill.