third of Iowa, combined. The climate is remarkably salu- the square mile; of America, $5\frac{1}{2}$; of Australia and Polynesia, brious, the death rate is low, and epidemic diseases are rare. about $1\frac{1}{3}$ to the square mile. Means of intercommunication consist of 692½ miles of finished railway and 8,012 miles of telegraph wire, and 561 ad- a million or more, namely: London, with 3,490,000; Paris, ditional miles of railway are projected. The telegraph is 1,852,000; New York (with Brooklyn), 1,596,000; Constantibe sent to any part for one shilling. The Post Office includes Canton, Seangtan, Shanchowfu, and Siangfu, in China, with than they have ever done for themselves. a system of government savings banks. The public debt is 1,000,000 each. There are twenty-nine cities with 500,000 or not more than three years' revenue. Land for settlement can more each; and 215 with 100,000 or more people. be obtained of the government in any area between 40 and 320 acres for \$4.84 per acre, payable on easy terms.

The present mainstay of Australian prosperity is live mand for agricultural laborers is therefore especially marked. things as they are. There are abundant coal resources, the approximate coal area square miles, and in gems of all kinds the country is re are carried on in extensive establishments. Of the minor in-cence. dustries, nearly all are represented as in a flourishing condition. The eight hour rule in labor is generally followed. work, \$1.75 to \$3.50. As regards the cost of living, a greater evils. house containing 6 rooms may be hired in Sydney for from as \$2.50 to \$3.50 per week. Smaller houses ranging down to three rooms are proportionately lower in price. In the matthe same, sugar 6 to 8 cents. Generally the prices are high, be somewhat less in the country, while wages out of the city ceives any substantial benefit from his invention.' average rather higher.

Of course the chief advantage offered to the immigrant is steady work, which is to be supplied both by private enterpublic revenue for the construction of railways.

----THE WORLD'S POPULATION.

The present population of the world is somewhere between fourteen and fifteen hundred millions, the latest and perhaps most trustworthy estimate, that of Drs. Behur and Wagner, placing it about midway between the limits we have mentioned. The impossibility of estimating the num- a patent or a combination of patents to levy enormous taxes owes its real value not to the owner's efforts but to ber more closely will be apparent when it is remembered that only in a comparatively small part of the world have ventors, for whose benefit the patents were issued, get little helped by his negative action. We might point as an careful censuses, or indeed censuses of any kind, ever been or nothing for their rights. made. A systematic enumeration of the inhabitants of India a year ago discovered that the population of that great the patent system—be granted as true. Does it follow that the most prosperous, but is now a tenth-rate place simply be 25,000,000, or as many nearly as the population of England, Scotland, and Wales. The census returns of Europe are tolerably complete, the leading States standing in the following order in point of numbers:

Russia	1870	 71,731,000
Germany	1876	 42,723,000
Austro-Hungary	1876	 37,700,000
France		
Great Britain	1876	 33,450,000
Italy	1875	 27,482,000
Spain	1870	 16,552,000
European Turkey		
Belgium	1874	 5,337,000
Roumania	1873	 5,073,000

each; the Netherlands fall a little short of that number; Switzerland fails to reach 3,000,000; while Denmark and Norway fall somewhat below 2,000,000. Greece and Servia pressed "by them than they have taken away. It is true evils of either system may have been, the good has preponfall short of a million and a half each, and the smaller States that the owners of such patents have often been greedy of derated enormously. And the charge of favoritism can be together add less than half a million more. The aggregate gain and have amassed great wealth; but what are their for-returned with interest, for the patentee's monopoly is limited, population of Europe is thus a little over 309,000,000, giving tunes compared to the aggregate wealth of those who owe and in a few years his invention becomes public property, a density of 82 to the square mile.

The population of Asia, according to the same authorities, from the very patents they complain of? is about 824,500,000, or 48 to the square mile. The most 5,000,000. The density of the African population is 17½ to sents would have been—where they personally would have therefore, for subsequent consideration.

PATENT RIGHTS AND PATENT WRONGS.

The old saying, "out of the frying pan into the fire," is agricultural classes. stock, and this is conspicuously true of New South Wales. always worth heeding. The single circumstance that a decotton, sugar, olives, cinchona, indigo, and rice, besides the and that the harm likely to be done in the process of substi-

·We have little sympathy with those who persist in regardveloped. Tin and copper are largely mined, and a fine with those who cry "away with it," or would change its promarkably rich. The larger manufacturing industries in- thing else we have to do with, it is something experimental, ning, engineering, foundry work and pottery-all of which but making no pretence to infallibility or absolute benefi-

workings in some particulars is undeniable; but on the other piration of the patent it is able to secure a renewal of it, Taxes and rents are low, while wages are fair. A bricklayer, hand, the advantages directly traceable to it are enormous, and so continues for another term of years to "prey upon for example, can earn in Sydney from \$2.50 to \$2.75 per vastly overbalancing, we believe, the evils wrought by it or the people." The end comes at last, and then the invention day. Building laborers get from \$1.50 to \$1.75. In the in its name. The part of true statesmanship therefore seems iron trades the pay for eight hours' work ranges from \$2 to to be, not to abolish the system outright as some demand, his successors have been greatly favored truly; but is their \$3 per day. Painters receive from \$8 to \$15 per week. In nor to emasculate it as others would like to do; but to decase entirely unique? the gold mines, a days' wages is, for eight hours, \$1.87 to termine the sources of the evils which attend its workings, \$2.08; in copper mines, same time, \$2.08 to \$2.60; in coal and then, if possible, modify the system so as to obviate. The title made out, the land is his to use or let alone as he mines, five hours' work, \$2.35; in iron mines, nine hours' those evils without opening the door for the entrance of will. He can let it lie unproductive, not merely for seventeen

\$3.50 to \$5 per week; in the suburbs this rent falls as low certainly serious, or, more correctly, some of them are cept on such terms as he may dictate. His monopoly is, Others, like the following from a late issue of the Chicago then, as complete while it lasts as a patentee's, and it lasts Times, are simply ridiculous, to wit: "That the patent system for ever. Suppose he has made a happy selection and has ter of food, beef sells for 8 cents per lb., flour 3\frac{1}{2} cents, bread is an oppressive nuisance; that it has proved itself the re- chosen a valuable site for water power, or that the land is verse of a stimulant to the inventive faculties of the Ameri- found to contain precious metals, or that it happens to be in some respects notably so, as butter is quoted at 50 cents can people; that its original purpose, to secure to inventors where a great commercial center is destined to be. He, per lb., milk 16 cents per quart, and bacon 25 cents per lb.: a reasonable recompense for their study and ingenuity, has unlike the inventor, has added nothing to the world's but these are Sydney rates, and the cost of living appears to been prevented, and that not one inventor in a thousand re- wealth, yet purely through the necessities of others he

imposing upon anybody capable of observation or honest title. thinking. Not so, however, the charges based upon truth

demand, unless it be first clearly demonstrated—

rather a hindrance to the development of the country:

That the owners of patents have been more favored by law, the same story. than the owners of other species of property:

cept with the abolition of the system.

history, of common sense and common fact, is against it. tunes have not fallen to the working pioneers, that the land Even in the case of the patents which have given rise to the laws of our country have not encouraged emigration or hastmost "oppressive" monopolies—mowing machines, cultiva- ened the development of the country? tors, sewing machines, vulcanized rubber, telegraphy, rail-Sweden and Portugal slightly exceed 4,000,000 inhabitants ways, and the rest-it is easy to show that they have been of case against the landowners than the latter against the paenormous advantage to the country, and have added vastly tentees; but only by overlooking, as the Grangers do, the more to the wealth of the people who have been "op- very important circumstance that, however great the local what they have almost entirely to the aid they have received whereas the landowner's monopoly is perpetual.

populous nation is China, with over 400,000,000 people. Grangers, whose narrow views have been represented in the without impairing in any serious degree its efficiency as a British India has about half as many; Japan over 33,000,000; recent anti-patent enactments of their State legislatures and stimulant to invention. We are inclined to think it may; Turkey in Asia about 13,500,000; Asiatic Russia about also in the bill now pending in the United States Senate. but the case is not as clear that sudden or reckless changes 15,000,000. Africa has a population close upon 200,000,000, Have those same Grangers ever seriously asked themselves are advisable. This question, however, is too important to America about 85,520,000; Australia and Polynesia less than the question where their organization and the wealth it reprebe discussed at the tail of a long article. We reserve it,

been-had there been no patent system to encourage inventions, and no fruits of such a system to make the cultivation There are ten cities in the world that have a population of of the interior wilderness possible, or to enable its pioneers to send its products to a profitable market? We hazard the assertion that the "obnoxious" patent system, and the invenunder government control, and a message of ten words may nople, 1,075,000; Berlin, 1,045,000; Vienna, 1,001,000; and tions it has encouraged, have done more for the Grangers

> But, it is objected, on their part, the owners of patents have been and are unduly favored in the struggle for existence. They have been too much protected, to the grievous injury of the users of their inventions, particularly the

Let us see: Let M., a mechanic, represent the patentees, The value of cattle, horses, etc., in the colony in 1875 was gree of mischief is the outcome of any custom or law is not inventors, and owners of patents, as a class. Similarly let over \$35,000,000, and the wool export is very large. There in itself a sufficient reason for the condemnation of such law F., a farmer, represent the Grangers. F., strong in hope and is no part of the country where sheep and cattle will not or custom. As this world of ours is constituted, good and health and muscle, goes to the wilderness and clears a farm. thrive; and with the improvements which are constantly evil ever go together. There is nothing so beneficent that For the work so done, or for a merely nominal payment, the being made in the preservation of meat, it is likely that before it may not sometimes do harm. Even the Gospel of Peace general government grants him a section of land. The long the rearing of live stock for consumption in Europe will has more than once brought discord and the sword. Reform grant is absolute and for all time. Meanwhile M. is devoting become a great and valuable industry. The soil is suitable is always in order; but before it is undertaken in any case, in energies to the perfecting of some useful device. He for the cultivation of all northern cereals, coffee, tea, tobacco, it should first be made clear that something better is possible, succeeds, and the general government gives him the right to make and sell his invention—for all time? No; but for a fruits of the temperate and semi-tropical zones. The de-tution will not be greater than will result from leaving period of a few years only. So far, certainly, the inventor is not unduly favored.

We will suppose that the invention is so important and being 24,840 square miles. The gold mines are believed to ing the patent system of the United States as the source of useful that, before the life of the patent expires, the inventor be extensive, but labor must be had before they can be de- unalloyed good. We are equally far from sympathizing has amassed a noble fortune; or better, suppose that the inventor, unaware of its importance, sells it at the current rate quality of iron is obtained. There is a diamond area of 500 visions at a venture simply because it is, or appears to be in for patents, according to the opponents of the system, "a some cases, the instrument of "oppression." Like every-song," and the property passes into the control of a soulless corporation, which is enabled thereby to monopolize an exclude ship and boat building, brick making, milling, tan- aiming to secure the greatest good to the greatest number, tensive line of manufacture, and so acquire no end of riches. Better still, suppose this grasping corporation, which owns something that the multitude cannot afford to be without, That strong ex parte arguments can be brought against its and charges accordingly, becomes so rich that before the exbecomes a portion of the common wealth. The patentee or

Let us see how our pioneer Granger has fared meanwhile: years (like an undeveloped patent), but for any time he may The charges against the patent system as it now stands are choose; and he can keep anyone else from cultivating it exmay gain great wealth by what is called the natural rise The patent falsity of charges of this sort prevents their in value of real estate; and the law of the land defends his

To parallel the case of M., suppose F. to be ignorant of prise and by the expenditure of some \$20,000,000 of surplus and experience: for example, that a patent right is for a the present or prospective value of his homestead, and that time the monopoly of the possessor; that it allows the paten- he sells it, as M. did his patent, for a song. The buyer may tee to restrict the liberty of all other men to the extent of improve the property or let it lie fallow, just as he pleases. denying them the privilege of using something they want He may leave it for generations, a serious bar to the developexcept on such terms as he may dictate; that it allows a pat-ment of the surrounding community, who may sorely need entee to prevent absolutely, if he will, the use of a patented the water power, the useful minerals, or the advantage of device or process, for a term of years, to the manifest detri- the commercial situation it covers; or he may turn their nement of the common wealth; and that it allows the owner of cessities to his advantage and charge enormously for what on the country's industrial or natural resources, while thein-the labors of others who have been hindered rather than illustration to one of the oldest cities of New England, Let such charges—the worst that can be brought against which from its natural advantages might have been one of empire had previously been under-estimated by upwards of the system should be abolished? Certainly not, whatever cause those advantages have been monopolized by a family the Chicago Times or others of the anti-patent school may that would neither develop them or allow them to be developed by others. The vast fortunes that have come to the That the patent system as a whole has been no help, but Astors and similar owners of landed property, which has been made valuable through the energy of other men, tell

The worst possible cases of patent "oppressions" are trivial That the admitted evils of the patent system are insepara- compared with the burdens which rising communities have ble from it, and that no mitigation of them is possible ex- had to bear through speculations in land. Shall we say, therefore, that private ownership of land is injurious and Touching the first very little need be said. The verdict of ought to be abolished? Or, because the great landed for-

The inventors, if they would, could make out a far stronger

There remains the question whether the patent system can The chief opponents of the patent system are the Western be modified so as to mitigate the alleged evils of its workings