PHOTOGRAPHIC NOTES.

Copying Oil Paintings.—The photographing of an practical suggestions on this subject in the British assembled associations of civil and mechanical (includinations of the world." Journal of Photography, wherein it is advised to have ing electrical) engineers and architects studying in the cloth.

clean dry cloth.

special dark screens to place before the painting, it lication is a matter of no importance. would be found that much of the light would have to! The first of these lectures appearing in our pages is it is, instead of the photographer believing it to be an ision of important problems in engineering, the treatinevitable fogginess attendant upon such work.

ing, though less brightly, and without definition. A when the character of the lecturers is considered, they

The best plan is to place the painting so that the thorities upon the matters presented. light strikes it rather obliquely; this reduces the accidental reflections to a minimum. Be it remembered that cleaning a picture, as we recommend, though coning, as we recommend, will be obtained by placing the menting upon this subject, the National Republican, attempt to reach Lhassa, the Rome of Buddhism, and considerably reduce the amount of light entering the swell this surplus, that Congress shall establish, at the room, and lessen the intensity of any possible reflec- national capital, what would be an extensive laborations in consequence. But these must be reduced to a tory and museum, in which motive power, shafting, minimum. The dark cloth should be thrown over the and all appliances necessary for the running of machin-though they dug only one or two feet below the surfront of camera and stand; dark screens, curtains, ery shall be furnished free of cost, and inventors or or other movable "properties," must be made to close owners of patents invited to set up and exhibit workround a part of the camera in front of the picture, so ing models therein, making thereof what it conceives as to give dark and, consequently, non-injurious reflec- would be the greatest mechanical school on the globe. tions only, and shut off all others. All light-colored Our contemporary states that it intends to keep this of the gold fever. flecting power of the canvas, and any window or light | follows: that may possibly lurk unscreened in front of it must be covered over, and, indeed, no light, skylight or in the maintenance of the Patent Office, increasing its otherwise, side or top light, allowed to be uncovered facilities and advantages, and making it a better guide when it is more than a few feet in advance of the pic- and more potential stimulant to invention, a large balture placed for copying.

reflection prevail from the surface of the painting, the tributary to the support of departments which yield than the disinterested love of science. negative will have an eminently unsatisfactory and no income. Departments which bring in no returns at foggy aspect as soon as the details begin to appear. all are supported with a degree of liberality entirely Should such a contingency occur, fresh exertions must, unknown in the management of the Patent Office. Belight and enable still more of the skylight to be covered inventors and the general public—Congress has acted over.

ing of an oil painting will be robbed of any real diffiof the presence of the painting within an hour or an hour and a half of the time it first enters his premises.

stock outside their factory, which was not injured.

and the surface dried. It is then a good plan to gently will be carefully reported and will be published in our in such backward state. rub the surface with a soft rag smeared with nut oil, columns, from time to time, as received. They may and then to remove all that possibly can be, with a not always appear in their order of delivery or with regularity; but, as each is independent of every other,

the picture, and, in consequence, repeated in the nega- neers, and formerly Commissioner of Mining Statistics tive. This may happen to such an extent that the re- of the United States. Its subject is novel and attractment of great subjects now demanding the attention themselves. A little consideration will show the reasonableness of of the practitioner, and the consideration of the vitally

Proposed National Laboratory for Inventors.

with reflections. The haze-producing scum is gone, great that there is now a large accumulated surplus, has mountain passes, were explored with care. but reflection haze may take its place. Oblique light-been frequently referred to in these columns. In compicture well in advance of a good portion of the sky- of Washington, proposes, as some compensation to light, when the remainder may be screened, which will that general class of citizens who have contributed to objects must be removed out of the sphere of the re | subject before Congress and the people, and argues as

If all these precautions are well taken, a negative nually deposited in the Treasury. Thus, the Govern-

constantly increasing income be utilized for the stimu for want of these virtues.

The Sibley College Lectures at Cornell University. lation of thought, the suggestion of new paths of prog-In our this week's SUPPLEMENT we present the first ress, the possibilities that one man's triumph suggests oil painting is perhaps one of the most difficult and of a series of reports of lectures delivered during the to the mind of another, so that our great temple of inunsatisfactory things a photographer, be he amateur current year, at Cornell University, by the "Sibley vention may enter upon a broader field of usefulness, or professional, has to contend with, particularly if College Non-resident Lecturers." These lectures are and become what it ought to be—the great mechanical the painting be old and varnished. We find some | delivered at intervals of two or three weeks, before the educator, not only of the United States, but of all the

There has hardly been sufficient opportunity, thus the canvas removed from the frame, and the surface of various professional courses given in the several defar, to judge of the disposition of the present Congress the painting well cleaned by taking a sponge dipped in 'partments. The lecturers are gentlemen who have at- toward the patentees and inventors of the country, but clean rain water, and rubbing it over gently, then tained a distinguished position in the profession, and it is to be hoped that this, its first session, will not close to quickly dry the surface by wiping with a soft linen | who have consented to give to the students who are so without such additional appropriations being made for fortunate as to be able to study at Cornell the fruits of carrying on the Patent Office business as the experience If the picture is varnished, a very small quantity of their professional experience. These lecturers, selected of the past year has shown to be urgently demanded, pure soap should be put on the sponge, but this should by the Director, Professor Thurston, include the most in order to enable careful attention to be given to all not be done if there are any cracks visible in the sur-successful and noted men among the civil, mechanical, applications, and at the same time to closely keep up face. Every particle of soap must then be wiped off and electrical engineers of the country. The lectures the current work, which has for so long a period been

The Exploration of Thibet.

Col. Prejevalsky, the well-known Russian traveler, An oil painting is usually painted in such a scale of and as all are given at dates selected simply with refer has just completed his fourth expedition into the alcolors that, even in a good light, it is slow to act upon ence to the business engagements of the lecturers, and most unknown region lying between Siberia and China. the film; and in an ordinary studio, unprovided with are without any relation of sequence, the order of pub- After two years' exploration, he has returned to Europe, bringing a large accession to our meager knowledge of Mongolia, Thibet, and Chinese Turkestan. be shut off to prevent the studio itself becoming so by Dr. R. W. Raymond, the distinguished founder The most important result of his journey has been the bright as to be inevitably reflected by the surface of and past president of the Institute of Mining Engi- discovery of the upper waters of the two great rivers of China, the Hoang-ho and the Yang-tsze-Kiang. The Chinese made an attempt before the Christian era, and flection overpowers the picture itself, and as a matter live, and it fittingly leads the series. The lecture is one again in the last century, to explore the sources of these of fact it is generally the case with the unpracticed of the most interesting of the orator's always interest- rivers, but in both cases they were unsuccessful, owing that in their copies there is more reflection than picture. ing productions, and although, in part, previously to the fierce mountain tribes which defend the interior It is only through the uneven surface of the varnish given to an audience, has never before appeared in the of Thibet from the intrusion of strangers. Prejevaldistorting and breaking up the reflection that the lat- public prints. The succeeding lectures are usually more sky and his party of fourteen gained their knowledge ter is not seen in its entirety, showing at a glance what purely technical and practical, and include the discus- at the cost of two severe battles; but, while forced to inflict injury on the savages, escaped serious harm

At an elevation of nearly 14,000 feet above the sea, our remarks. Let a mirror be placed over the surface important matter connected with the relations of the the explorer found several modest streams whose union of the painting, and in the same plane; then all objects engineer to his men, of the profession to the working forms the Hoang-ho or Yellow River. To the southseen in the mirror will also be reflected by the paint-classes, and of capital to labor. As may be believed, ward of this spot, about 67 miles, he found the Yangtsze-Kiang, a muddy, rapid stream, which at this point photographer standing by the side of his camera dur- will, in all cases, be likely to prove as important as in- has a width of 300 feet and a considerable depth. The ing exposure, lens cap in hand, would inevitably cause teresting. The subjects are such as most interest the party spent several weeks in this region, which is supa foggy mark where his face and hands were reflected. profession, and they are treated by the men from whom posed never to have been seen by whitemen before. His A white pocket handkerchief exhibited would be fatal. the profession most desire to hear, by the leading au-journey carried him across the great Gobi desert. Although noted for its terrible cold in winter, its almost tropical heat in summer, a scarcity of water, and a general barrenness, the Mongols occupy all portions of it, The injustice that has been done the inventors of the raising their flocks on the poorest possible provender, ducing to excellence of results, adds to difficulties in country, from providing an insufficient Patent Office and themselves subsisting with great difficulty. The other directions, and leads to very trying experiences force, while the revenues of this department have been so elevated plateau of Northern Thibet, its lakes and

> The party were again defeated by the Chinese in their were forced to complete their journey by way of Eastern Thibet and Turkestan to the Russian territories in Central Asia. The explorers state that gold is plentiful in Northern Thibet. Near the sources of the Hoang-ho, natives were found washing gold sands; and face, they possessed whole handfuls of gold in lumps as big as a pea. With more careful working, the region is probably capable of producing a yield as large, if not greater, than the California placers in the early days

The Asiatics are reported to be heartily discontented with the oppressive rule of China, and to long for the "Instead of expending the gross amount of receipts milder despotism of the Tzars. They are represented by the explorers as inviting the intervention of Russia, and agreeing that, if a leader be furnished them, they will revolt, and place themselves under the imperial ance of receipts, in excess of expenditures, has been andomination. The rest of Europe has no means of judging how strong this invitation was made, but the that will have a satisfactory appearance all the while ment has assumed the right to put a tax or penalty on impression prevails that the Russian thirst for Asiatic during development will be secured; but if too much invention, and make this branch of the public service conquest has more to do with these various expeditions

Do Amateur Mechanics Make Skillful Workmen?

A machinist in the *Mechanical Engineer* thinks they be made to remove bright reflections, and, if necessary, | cause this office was intended to be self-supporting—an | do not. He says a failing common to all amateurs or the painting brought forward so as to receive still less agency managed by the Government in the interest of non-professional workers is too great haste. It matters not whether they are amateur machinists, or on the theory that it ought to be made a source of painters, or amateurs in any handicraft, the same weak-The only other difficulty of importance will be the profit, and has, therefore, failed to expend the money ness affects them all. The amateur wishes to see how obtaining equality of illumination. A small studio taken from inventors in promoting the great interest his work will look when it is done, and he slights the will never permit of a large painting being equally for which the office was established. This is as unjust preliminary process and hastens toward the final one, illuminated, so that it will be useless to attempt it as it would be to impose excessive postage, and get a with the result of making a botch of the business in Otherwise, if our hints be well attended to, the copy- surplus from the Post Office Department to support hand. The work shows to the practical eye that it has the army. Nor is its injustice its worst characteristic. been done hastily (carelessly is a better word), and it is culty; though we may say he will be an expeditious It is a fatal policy to tax the inventive genius of the inferior for that reason. The amateur himself sees it, worker who obtains a satisfactory negative, and is free country, to make it pay penalties, and this is precisely and after a time, after the first joy of completion is what Congress has been doing for a good many years. over, he hates the sight of his hurried job, and very "Invention is not a misdemeanor, inventors are not often destroys it out of hand. The better way would criminals, and it is high time to reverse this policy-to have been to stifle all impulses to get the work finished THE factory of Messrs. C. E. Jones & Bro., elec expend the money that has accrued and that may before it was fairly entered upon, and go through the tricians and manufacturers of electrical supplies, at hereafter accrue on a grand and comprehensive enter-processes which all work must go through before it can Cincinnati, Ohio, was burned on December 13, but the prise for the encouragement of invention and for the be properly completed. If I were asked what were the firm have lost no time since then in their efforts to put education of the people in the scientific and mechanimost necessary qualifications for a successful amateur, things again in working shape, in which they have been cal progress already achieved. Let the fees of the Pa- I would say patience and perseverance. Rarely do materially aided by the fact that they were carrying tent Office remain as now fixed by law, and let all the amateurs make good workmen, and it is most frequently