Scientific American.

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NEW-YORK, JANUARY 12, 1856.

Report of the Secretary of the Interior The annual report of the Secretary of the Interior has just made its appearance. It contains much valuable information touching the of Patents, in his last report, which are necesdomestic relations of this government; but the portion most interesting to our readers relates to the Patent Office, and that part we accordingly annex.

The remarks of the Secretary evince, on their face, a much more fair and liberal disposition towards the Patent Office than we have hitherto supposed he ever entertained or manifested. He says that inventors are a worthy and meritorious class of citizens; thinks they ought to have the benefit of the National Gallery, &c. He glosses over with excuses his recent foray upon the premises of the Patent Office, and, having got all that he wanted, af- by the Indian Bureau. Previously, it was in and, from all the information received, the kinds, and were excellent for making strong fects entire contentment from any further operations of the same sort.

of the Secretary are only intended to cloak some new and more dangerous assault upon the Patent Office than any he has yet ventured to assay; still, we hope we are mistaken. It is perhaps, but fair, under the circumstances, to give him his due, and, for the time being, believe what he says. He purports to have finished all his mischief, and to be now ready to lend inventors a helping instead of an opposing hand. Let him have the chance of proving the sincerity of his professions.

He argues that the Patent Office isn't the Patent Office, because only a portion of its cost was paid out of the patent fund; therefore it was both right and proper for him to cut down its facilities and reduce its accommodations. Such reasoning is almost too absurd for refutation. As well might he say that the Capitol was not designed for the especial use of Congress, or the White House for the President. Like those edifices, the Patent Office was erected by Congress at the public expense, and set apart for an especial purpose-the transaction of patent business. By the clearest legal enactment it is devoted to this one branch of the public service, and to no other. In disregard of law the Secretaries of the Interior have converted it into an asylum for Land officers and Indian clerks.

As for the ancient and venerable Indian documents of which the Secretary speaks, we appreciate the importance of their preservation; but would it not have been better to have dug a vault in the earth and buried them safe from sight and fire?

The reasons presented by the Secretary in favor of the removal of the National Museum from the Patent Office building are sensible and strong. We hope he will continue to urge them with all the influence which his official position affords, until the change so much needed is realized. We stand ready to second his efforts in that direction by every means in our power.

We pass over the apparent self-contradiction of the Secretary in stating that his late innovation was not detrimental to the interests of the Patent Office, while in the next breath he admits, and proves conclusively that the Department is, and was laboring under great disadvantages for want of sufficient space. His arguments in favor of the removal of the Mu- used for any practical purposes. It has been fact that "Young America" has been com- Pa., on the 31st ult., by which four persons seum apply, with equal force, against all extraneous concerns existing in the building. The Land Office and Indian Bureau, for example, to use his own expression, have "no connection whatever with the Patent Office. and may as well, therefore, be placed elsewhere."

But these last changes we shall not now insist upon, it being agreed and understood that, for the future, the Secretary will behave himself properly, in regard to the Patent Office; that he will not absorb any more of its space: that he will use his best endeavors to ship off the Museum, and put the Commissioner of Patents in possession of that beautiful room,260 feet long, and 62 feet 6 inches wide; that he will go ahead with the north wing and pense; that he will henceforth and for ever hibition, and thus would be brought to light a in knowledge and enterprise. It may be well the highest of any country in Europe.

prosperity of his country.

SECRETARY OF THE INTERIOR'S REPORT ON THE PATENT OFFICE-" The reorganization of the Patent Office has been perfected, and its good effect already sensibly experienced.

"Several important amendments to the patent laws were suggested by the Commissioner sary to the more efficient action of the Bureau, and are in themselves reasonable and entirely unobjectionable.

"Since the 1st of January last there have been issued upward of eighteen hundred patents, and within the year the number will probably reach two thousand. This is the result | in some instances the interests of the inventors. of the judicious and excellent system that has been adopted, and which enables the office promptly to examine and dispose of every application that is presented.

"Several of the rooms in the basement story of the Patent Office building are occupied a building not fire-proof, and much exposed to most beneficial results are anticipated. conflagration. I did not feel justified in keep-We strongly suspect that the honeyed words | ing in constant jeopardy its records, files, and papers, of such immense value and importance, the loss of which would be irreparable, both in a historical and pecuniary point of view. Experience has already taught its folly, and the lesson should not be disregarded.

"Before directing the change to be made, I satisfied myself that, although it might put a few of the clerks of the Fatent Office to some inconvenience, it would not materially inter fere with their labors, nor essentially, with a correct and efficient discharge of their duties.

"By some it is contended that the entire building should be exclusively appropriated to the use of the Patent Office, and to this, under any other than extraordinary circumstances, I should cheerfully assent. But when I look at the fact that the entire structure, so far as completed, has cost some sixteen hundred thousand dollars, of which \$1,279,700 has been drawn from the Treasury, and only \$320,300 from the patent fund, and that it was impossible to secure for the Indian Bureau such a building as its necessity demanded, I could find no plausible pretext for hazarding millions of the public property, more especially when it was evident it was not absolutely necessary to the full and proper execution of the patent laws, and would not, to any great extent, incommode the Patent Office.

It will require a further appropriation to complete the west wing of the Patent Office building. The east wing cost \$607,700. Owing to the declivity of the grade an additional story was required in the west wing. It was found necessary, so as to construct its base- sake of filling out the list, we have voluntarily ment, sub-basement, and principal story, that placed their names in the order seen. These each might be converted into one large room gentlemen must either make an equal division when the requirements of the Patent Office demand it. To accomplish this object, marble and granite piers and architraves have been introduced, which are not in the corresponding stories of the east wing. These and other additions have cost about \$100,000, and yet the whole expenditure will not exceed that of the east wing.

"The north part of the building should be without a portico. A partial estimate for its construction has been submitted.

" There is a large room in the Patent Office designated the National Gallery, which is not ernment for merely taking care of and superin- free, no matter where they come from. tending it is \$3180. The room is required for the proper disposal and exhibition of rejected

them and the Constitution, to advance the scarcely less importance than those now so 'ety of establishing similar postal reforms. well exhibited in the cabinets of models of patious and deserving classes of our citizens.

> the Patent Office in their business, and to affect their friends to command. The collection has no connection whatever with the Patent Office; and may as well, therefore, be placed elsewhere.

have been usefully and judiciously applied. best quality. It has been stated that our wools The seeds were well selected and distributed, were longer in the staple than the foreign

Award of the Scientific American Prizes.

us of awarding our annual series of prizes to Country Gentleman, scatters all such assertions those friends who have most successfully la- to the winds, and proves conclusively that bored to extend the circulation of the SCIEN- American wool surpasses all foreign wools for TIFIC AMERICAN. We annex a list of the its felting properties, and for making beautiful names and residences of the fortunate com- broad cloth-light or heavy. He states that petitors, together with the number of sub- American grown wool and fine wool from scribers obtained by each, and the amount of Saxony have been tested, and the palm awardprize money now their ve. The sums to which ed to the former. The finest Saxony wool obthey are respectively entitled are ready for tained from Hungary contained only 2400 serpayment, and will be handed over, in gold or rations to the inch, while wool obtained from any other currency more desired, whenever samples of American flocks contained 2552 sercalled for. Sight drafts from those who can- rations to the inch. not make it convenient to call or send by messenger will be duly honored.

No.	Name.	Residence.	Prize.	List	İ
ι.	J. CANT,	Hamilton, C. W.	\$100	172	l
п.	M. M. GREEN,	Louisville Ky.	\$75	132	
ПІ.	J. F. LOVECRAFT,	Rochester, N. Y.	\$65	94	I
rv.	W. C. GRANT,	Detroit Mich.,	\$55	82	
v.	J. L. MITCHELL,	Jackson, Mich.,	\$50	75	
VI.	J. L. DICKINSON,	Dubuque, Iowa,	\$45	71	
VII.	G.C. HYATT,	Adrian, Mich.,	\$40	66	ļ
VIII.	J. S. BARBER,	Waukegan, Ill.,	\$35	61	
IX.	JNO. GARST,	Dayton, Ohio,	\$30	5 5	ļ
x.	H.S.BABBITT,	Newark, Ohio,	\$25	46	
XI.	C. BIERSTADT,	So' Dedham, Mass	. \$20	45	
XII.	J. LYMAN.	Quincy, Ill.;	\$15	45	
xш.	B. RANKIN,	Louisville, Ky.,	\$10	45	
xiv	R. SKINNER,	Princeton, Ind.,	\$5	45	

It will be observed that the number of subscribers furnished by the last four individuals on the list are exactly the same, viz.: 45. of the gross sum of the four prizes, to wit, \$50, which will give the meach \$12.50, or some further time must be given them to obtain more subscribers, and so enter a limited competition for the choice. We should prefer to have them try to increase their lists, and for that pnrpose suggest that the time be extended | probable that even this stock will long remain to the 15th of February. It is a matter that they must settle among themselves; we recom- tain such back numbers as we have, should commenced. The estimated cost is \$450,000, mend them to correspond together upon the make early application. subject, without delay, and notify us of their verdict.

The competition for these prizes has been thrown open to all alike. It is a remarkable and Pennsylvania Railroad, near Darlington made the depository of the curiosities of the pletely distanced by Canada,—the first time, were instantaneously killed, and eighteen se-exploring and other expeditions, and of other we believe, that such a thing was ever known, verely wounded. It was caused by the col rare articles worthy of preservation. If they It speaks well for the enterprize and intelli- lision of an express and a freight train in could be removed to a more suitable place, it gence of our vigorous neighbors of the North. turning a curve. When will all our railroads would be very advantageous to the Patent Of- Throughout the whole domain of Canada the be compelled to have double tracks? fice. This room is one of the largest in the SCIENTIFIC AMERICAN passes free of postage, building, being two hundred and sixty feet although we are obliged to pre-pay 26 cents long and sixty-two feet six inches wide, and per annum on each subscriber, to pass them to the cases it contains, as I am informed, cost | the line. A wise enactment of the Canadian forts are being made to extinguish the fire in some thirty thousand dollars, drawn from the Parliament provides that all publications the Tamaqua coal mine, which has been on patent fund. The annual charge to the Gov- of a scientific and useful nature, shall go fire for some time. The method of extinguish-

sensibly felt. The circulation of valuable mine, then closing all the open spaces by which models, for which it is so well calculated, and | publications in Canada has wonderfully inwas probably designed. The Commissioner creased since the passage of the act, now could then determine which of the models could about three years since, and, as a consequence, build it with a portico, never minding the ex- be treated as useless, and which placed on ex- | the people are beginning to make rapid strides 36 1-2 years, in England it is 38 years; this is

labor hard to benefit inventors, and through set of models never seen by the public, of for our own legislators to consider the propri-

To all who have lent their aid in endeavorented inventions. This would be a great ac- ing to promote the prosperity of our journal quisition to inventors, one of the most meritor- during the late canvass, we return our sincerest thanks. Whether they have taken prizes or "The collection in the gallery—a very curi- not, one thing is certain, their labors have not ous, interesting, and instructive one, is con- been thrown away; they have worked for a stantly open to, and attracts large numbers of good purpose-nothing less than the diffuvisitors, which, in itself, is very proper; but sion of useful knowledge-and they have when taken in connection with the secrecy and accomplished noble results. Thousands of seclusion to which the inventions and discov- new readers are added to the SCIENTIFIC eries are entitled, whilst under examination, it AMERICAN host. With the high est wishes for becomes a privilege of doubtful propriety, cal- their success and advancement, we wish them culated, as it is, to disturb the employees of all a "Happy New Year," and remain, as ever,

The Quality of American Wool.

The statement has been propagated far and wide that American wool is unfit to give that The appropriations for agricultural purposes beautiful finish required for broadcloth of the warps, but did not possess the necessary felting property requisite for fine cloth, and for this reason a little foreign wool was necessary.-The pleasing duty once more devolves upon H. C. Merriam, in the last number of the

Water Descending and Hot Air Ascending. A stream of water descending through the 172 air tapers downwards, and at a certain depth divides into drops, because each particle falls with accelerated velocity, and at length (when it has overcome their cohesion) leaves the other particles behind it. But, when the stream is inclosed in a tube, this separation of its parts is prevented by the atmospheric pressure above and below keeping them together, and forcing the whole stream to flow with equal velocity; the lower part dragging the upper after it, while the upper (by its inertia) equally retards the lower, so that they move together 45 with the mean of their natural velocities; and the discharge is, of course, more rapid than if there were no tube, and will be faster the longer the tube. Now, as the same is true of They are each, consequently, equally entitled a stream of light fluid ascending through a to the highest of these four prizes, but for the | heavier, this explains why the draught of a furnace depends on the hight of the chimney.

Back Numbers Volume 11.

The demand for back numbers of the Scien-TIFIC AMERICAN on this volume has been so much greater than we calculated for, that we can no longer furnish complete sets.

Of the 17 numbers issued, however, we can supply all except Nos. 6, 12, and 15. It is not on hand. Those, therefore, who desire to ob-

Railroad Collision.

A terrible accident took place on the Ohio

Extinguishing a Burning Coal Mine.

The Pottville Miner's Journal states that efing it is the same as that used in England, viz. : The good effects of this law are being injecting steam and carbonic acid gas into the air has found an entrance.

The average duration of life in France is