which would outweigh any possible temporary or per- to their contract and give him the seat for which he that the staff provided under the Treloar bill for the that the benefit conferred upon the public at large the greatly enlarged accommodation which the will vastly outweigh any temporary and local inconvenience. With regard to the discrepancy between the estimate of \$50,000,000 for the total cost by Mr. Parsons and the \$80,000,000 estimated by engineers who testified for the protesting property owners, the American Publishers' Copyright League, the following be better brought about under the provisions of the report says: "In the view of your commission, it is not resolutions were presented and adopted : necessary to determine whether the road will cost \$50,-000,000 or \$90,000,000. We are convinced that, if the right League disapprove, on the following grounds, of road can be built at a reasonable cost, it ought to be the provisions of the bill introduced in the House of built. We are equally convinced that we can never Representatives by Mr. Treloar (H. R. 5,976) for the reknow whether it can so be built until an opportunity vision of the copyright law: is given to competent contractors to say whether they will or will not undertake the construction of the of the United States" of the privilege of securing copyroad."

think that this is one of the cases where the public in- of 1870 had limited the privilege of securing copyright unfavorable action of the Congress and of the executerest cannot be barred in its progress by any regard to persons who were "residents" of the United States. tive. for persons where a violation of the lawis not involved. The restriction now proposed, limiting the copyright If the owners have no law in their favor, and if the privilege to citizens, would bring about a revoca- bill in the House by Mr. Bankhead and in the Senate public convenience demands that the vaults shall be tion or cancelation of the copyright relations which by Senator Morrill for the establishment of a separate taken, the hardship of the case cannot be suffered to have been entered into by the United States under bureau for the registration of copyrights. interfere: the demands and the comfort of 2,000,000 the act of 1891 with Great Britain, France, Gerpeople must be heeded."

to whether the roads would pay, the commission sees back of the policy of even our most primitive copyright no reason to doubt that they will. "Our invariable laws in the recognition of literary and artistic proexperience," they say, "thus far has been that the perty. facilities for transit never increase so rapidly as to meet the growing necessities of travel." The commissioners articles which, in order to secure the privilege of copyare prepared to admit that when the road is built trav- right in the United States, must be wholly manufacelers may at first be prejudiced "against a system tured within the limits of the United States, of musiwhich compels them to go down a long flight of steps cal compositions, and of reproductions of works of art and to hide themselves from the sunshine and the open in the form of engravings, cuts, or prints. In the disair for a given length of time" In regard to this ob cussions of the provisions of the act of 1891, it was held jection we have already pointed out in a previous by those having expert knowledge of the subject that issue that it would probably exist at the outset; but the application of the manufacturing requirement to we are, at the same time, of the opinion that, if the the production of foreign musical composers would in the disturbance originated what looked like a cloud of tunnel could be built and the proposed speed of oper-practice prevent such composers, in the majority of ation maintained. the New York public would ulti-mately smother its sentimental objections in the face and would simply perpetuate the practice previously of the solid practical benefits which such a scheme existing of the appropriation by American reprinters would bestow.

by a commission of such great a bility and high personal requiring the manufactureor production in the United character is certain very materially to hasten its exe- States of an engraving of a work of art by a foreign cution; but it seems likely, on the other hand, that designer must, in the majority of instances (and particuthe legal complications in which the opponents of the larly in the cases of the more important works of art Commission will endeavor to involve the proceedings which could not be brought across the Atlantic for the will bring about a delay which may prove to be of purpose of being engraved), render impracticable the considerable duration. When the legal objections securing of American copyright, and would leave have been swept away (supposing, as the commission open, as heretofore, the property in such reproducconsider, that they are invalid), there will remain a tions to be appropriated by unauthorized publishers. period of five years which must elapse before the roads can be put in operation.

may possibly be six or seven years distant, what pro-'guage of the country of their origin, the authors of vision is to be made for relief of the existing over- France, Germany and Spain have thus far received crowding, not to mention the additional increase in | but inconsiderable advantage from the American travel which is certain to take place in each year of copyright act, although the several nations which the interim? We understand that the Rapid Transit have entered into copyright relations with the United Commission invited the elevated roads to make a state- States have extended to our citizens, without any rement as to what they were prepared to do in the way strictions of local manufacture, the full copyright of extension; but although they appeared before the privileges enjoyed by their own citizens. This result commission of 1891, at the present writing they have has naturally brought about, on the part of the namade no application or response to the existing com- tions referred to, a large measure of dissatisfaction mission of 1894.

the special commission is right in stating that this is minated (greatly to the disadvantage of American the first consideration), the extension of the existing authors and artists) if it had not been for certain adelevated roads, and the construction of the Broadway vantages secured under the act of 1891 to the foreign tunnel, should be regarded as parts of one general producers of works of art. If the protection of Amerischeme. A scheme which contemplates the provision can copyright is to be withdrawn also from the proof the New York lines of travel with ample seating ductions of foreign artists (as would be the result un-in it about four inches long; a metal skate key; a brass capacity at all hours of the day must necessarily em- der the Treloar bill), international copyright relations door key, five inches long; a woman's black horn brace both enterprises. From 1884 to 1893 the travel between the United States and the nations above comb; two pieces of coal; a woman's silk handkeron the elevated roads increased 250 per cent, and this specified will inevitably be brought to a close.

operation of this law will demand.

A NEW COPYRIGHT BILL.

Resolved, That the American Publishers' Copy-

1. The bill provides for the restriction to "citizens many. Italy, Belgium, Switzerland, Spain, Portugal Regarding the apparently all important question as and Denmark, and would constitute a distinct step

2. The bill provides for the addition to the list of The strong indorsement of the rapid transit scheme established, during this discussion, that a condition

In connection with the difficulties in the way of securing simultaneous publication in the United States Pending the arrival of the day of opening, which for editions of Continental books printed in the lanwith their copyright relations with the United States. As far as the needs of the public are concerned (and) and these relations would before now have been ter-

manent disadvantages which might attend its execu- has paid. In estimating the future transportation Copyright Bureau would be unnecessarily large and tion. They decided that the necessity exists, and necessities of New York, provision must be made for expensive, and that the services of so many employes would probably not be required, at least during the earlier years of the operation of the office.

5. The purpose expressed in Clause XXVIII of the

bill for securing adequate protection for the property At a meeting of the executive committee of the rights of dramatic authors can also, in our judgment, Cummings bill now pending in the House of Representatives.

For these several considerations it is our judgment that the enactment of the Treloar bill would constitute a serious injury to the rights of producers of copyright property and to the interests of the community for the use of which such copyright property is brought into existence. It would further constitute, on the right under the statute. The act of 1891 extended the part of the United States, a breach of international Regarding the encroachment by the tunnel upon the privilege of securing copyright within the United good faith with the several nations of Europe that sidewalk vaults and the question of possible damage States to the citizens of foreign states which conceded have extended copyright privileges to American citito existing structures, the commissioners say: "We to American citizens the benefit of copyright. The act zens. We therefore ask that the bill may receive the

A resolution was passed, however, approving the

Spain's Big Meteorite.

In our issue of February 22 we called attention to the bursting of a great aerolite over Madrid on February 10. The Spanish newspapers have now reached this country and give full details of the event. This phenomenon is seldom observed on so startling a scale. The sky was cloudless, the streets were just beginning to be thronged with traffic and pedestrians, when the deafening sound of the explosion was heard. Those who happened to be looking at the sky say that the instant of the explosion there was a vivid glare of blinding light that for the moment outshone the sun, and then there instantly appeared at the place where white and bluish tint, bordered with red, which moved east at a tremendous rate leaving behind a thin train illumined by the sun that may have been dust particles. The whole city appeared to be shaken of the property in such productions. It was further as if by an earthquake, and the agitation of the atmosphere was shown by the rapid fall and rise of the barometer. The terror inspired by the occurrence was very great, particularly among the ignorant and superstitious. Many people did not recognize the origin of the phenomenon and thought some terrible catastrophe had occurred. The energy of the disturbance probably equaled that of the explosion of a large powder magazine. Many windows were shattered and walls injured, but fortunately no one was killed. The aerolite was visible over at least three-fourths of Spain as it shot through the air above the peninsula. Some damage was done at places along its route, for the great meteorite partly disintegrated on its way and the incandescent fragments that showered upon the town of Lograno set two buildings on fire. and at Burgos three fragments fell among the houses. Other pieces of the stone that were flung off near Madrid were picked up while still hot.

and the second

The Marvels of an Ostrich's Stomach.

The post mortem examination of one of the flock of ostriches owned by Barnum & Bailey, which has been on exhibition at the Central Park menagerie, New York City, gave the spectators a wonderful object lesson of the digestive capabilities of an ostrich. The ostrich was dissected by a taxidermist. He found the following articles in the bird's stomach: One wooden clothes pin; the bottoms of two beer bottles; a mouth harmonica, five inches long and two inches wide; a ferrule of an umbrella with a piece of the stick an inch thick, stones about with some cabbage, grass, lettuce, celery and considerable dirt. Strange to say, the ostrich did not die of indigestion, but from tuberculosis. The bird will be mounted in the museum and it would be interesting to preserve alongside the collection of objects which was found in its stomach.

year preceding.

probable needs of the future no calculation can be would enable him to pay such a penalty as that proconsidered reliable which is not based upon seating vided for, and still secure a satisfactory return from his capacity. Statements of the number of people which undertaking. The penalty should be left, as under the a road can carry from a given station in a given time present law, proportioned to the extent of the injury are often worthless, for the reason that 30 or even 50 caused to the owner of the copyright, and proporper cent of this number may be standing passengers.

If to-morrow the elevated roads and the Broadway cars were obliged by law to hang out the French sign have been diverted from the rightful owner. "Complet," as they do in Paris, when all seats were

in spite of the fact that in the same interval there was 3. The provision in the bill under which the total a rapid increase in the travel upon the competing sur- amount to be collected for the infringement of the face roads. Statistics show that the rate of travel in- copyright of a literary production is limited to \$5,000 creases faster than the population; that is to say that is inequitable in itself, and constitutes a distinct denot only are there more people to travel, but each parture from the principles heretofore controlling the person takes more trips each year than he did in the law of copyright throughout the world. An unauthorized reprinter might easily secure, through the It should be borne in mind that in estimating the appropriation of copyrighted work, proceeds which

tioned also to the proceeds secured to the person appropriating the copyrighted property, which proceeds

4. The plan for instituting the office of Commissioner filled, what would become of the morning and evening of Copyrights can, in our judgment, be dealt with travel? Yet the passage of such a law would be mere- more effectively in a separate bill, such as has already in the SCIENTIFIC AMERICAN last week. The disease ly the recognition of the right of a passenger to de-been introduced in the House by Mr. Bankhead and of which he died was of but ten days' duration, and mand that the transportation companies shall live up in the Senate by Mr. Morrill. It is further our opinion was contracted while doing compass duty.



Lieut. W. C. Babcock, U. S. N.

Lieut. Babcock, executive officer of the U.S. revenue cutter Michigan, died of pneumonia at the University Club, New York, on March 11. He was born in Vermont, in 1853, was graduated at Annapolis in 1871, and from that time had been continuously in the naval service. He served under Capt. Rogers, inspector of this lighthouse district, and was largely instrumental in establishing the electric light buoy system of New York Harbor, which was illustrated and described