ally created no little surprise and aroused a feeling of disar proval in our minds.

But upon reviewing the action of the Federal courts on this subject for several years past, we find that they have been gradually drifting away from the rule laid down by Judge Cranch, and the views of the inferior courts in this respect have finally been sanctioned and confirmed by those of the Supreme Court of the United States. We are far from being the advocates of what Mr. Jefferson used to denominate judge-made laws. We believe that the proper duty of the judiciary is to give effect to the statute, according to its fair intent and meaning-leaving to the legislative department the duty of correcting whatever may be thought amiss in the law as it exists. When the courts overstep this rule and undertake, by construction, to change the statute into what they think it should be, they launch forth upon a sea of uncertainty, and find themselves the authors of unnecessary difficulties for which there is no adequate compensation. Different judges will have different views of expediency. No one can tell into what shape prevailing doubts will finally crystalize. The most intelligent members of the profession find themselves incapable of giving reliable opinions, and property in patents becomes to a needless extent a gambling contrivance. To us it has always seemed as though the ruling of Judge Cranch, above referred to, was in substantial accordance with the statute, and that, if thought erroneous, an act of Congress was the proper remedy, especially after it had been so long recognized and acquiesced in by the Office.

But the ultimate decision of the courts is the rule to be observed in administering these and all other laws. Whatever may be our individual opinions, the great court of last resort must be regarded as being endowed with judicial infallibility so far as our own subsequent actions are concerned. The rule of the Patent Office should be made to harmonize therewith, and the Commissioner was bound by his duty to act accordingly. This he seems to have done by the establishment of the rule we have been considering, and to which the conduct of all interested parties must be made to conform.

This rule will to a great extent dispense with the necessity of preserving the files.models, or drawings of abandoned ap plications, or at all events of leaving them open to public inspection. Until the applications are abandoned, the previous rules of the Office preserved them in secret. After their abandonment, they can hardly be needed for any commenda ble purpose, and perhaps their preservation might be discontinued altogether, to the great relief and convenience of the Office. With this matter, however, we do not intend to med dle at present.

PISCICULTURAL PROGRESS.

That fish culture is evidently destined to become as much a settled pursuit as stock raising, we believe its past progress, as well as its prospects for the future, leaves no reas onable doubt. The success which has attended the efforts of the public-spirited gentlemen, who, for several years, have devoted their time and studies to the industry, is certainly very flattering, and an abundance of the finest and most delicate of game fish, in almost every stream and brook suitable for their development, appears now to be dependent mainly on the degree to which individuals will interest themselves in procuring the necessary spawn. This, through the new transporting apparatus, which we illustrated last week, is reduced to so simple and easy a proceeding, that the means for populating otherwise waste waters is to be obtained merely for the asking, or at most attended with an expense intrinsically trivial, and entirely inconsiderable in comparison with the benefits to be gained.

We took occasion recently to speak of the landlocked sal mon as an excellent fish for stocking streams. There is an other species which is worthy of equal commendation, and which is, besides, especially suitable for streams preserved for sporting purposes. We allude to the grayling, the natural habitat of which is in streams in Michigan, flowing into the Lake. This fish has, during the past year, been successfully hatched in New York State. It is not so good eating as trout, but is not at all inferior as a sporting fish. It is easily kept in good condition, and does not require so much food as the trout, and it is in season while the trout is not. The grayling spawns in April and the trout in November.

Mr. Seth Green, however, adheres to the belief that trou ; the only fish with which to restock worn-out streams, and he states that in no event can grayling and trout be reared in the same waters.

Mr. R. B. Roosevelt, President of the American Fish Cul-

if they mean anything, mean that the aggregate of phenomena to which we apply the term Nature is capable of willing ! and choosing, and of adapting special means to special endsa palpable absurdity. Curiously, too, such language is often government, it might be easy enough to carry out such a indulged in by those who deny the implied divinity of Na-scherne successfully. As things are, we very much doubt its ture, and recognize no controlling intelligence behind the veil

An instance occurred the other evening: A more than usufamily of small children, left orphans by a consumptive patient just dead; he said: "That is the usual way; those least are almost certain to inherit ill balanced bodies and untimely scious of impending defeat, threw all her available force in of Northern New York are therefore quite gratuitous. the direction of seed, to increase the chances of perpetuating the stock."

perfection to Nature; in most cases, things are as they are groves in their immediate neighborhood far more than by simply because they could not be much worse and exist; still the forests of Essex and Franklin counties. Still more do we should shrink from an interpretation of the facts of life imputing, like our friend's theory, infinite foolishness to Nature. The under dog in the fight may be an object of and temper the climate, and to meet the local demand for pity. From a human or humane point of view, he may be a proper subject for assistance. But to expect Nature to inter- help them comparatively little. They should look rather to up hill. If the fittest survive—and that is the natural order -the least fit must go down and stay down.

But do not the frailer sort seem to multiply excessively, as that does not necessitate his interpretation of the fact. That simply involves the same fallacy which a prominent sanitarian exemplified in his explanation of the fact that, in the poorer districts of great cities and in other places, as in rural Russia, where ignorance and poverty abound, the birth rate is relatively excessive. It shows an effort of Nature, he said. to make up for the unsanitary condition of such places, and the consequent waste of life in them: in other words, the death rate being excessive, the birth rate has to be correspondingly great to enable Nature to keep her seed up in the matter of population. Of the folly which Nature would exhibit in thus choosing the worst possible ground for fighting her assumed battle with death, he said nothing.

It was easy for a more logical and sensible observer to turn the tables entirely by calling attention to the fact that the excessive death rate, observed under such conditions, is the consequence and not the cause of the excessive birthrate. A high birth rate implies rapid child-bearing, exhausted mothers, ill-cared-for children, and many deaths in infancythe invariable source of a relatively large death rate; and the same unthrift and ignorance, which result in poverty and overcrowding in unwholesome tenements, are very apt to manifest themselves also in improvident child-bearing with its fatal consequences.

As in this, so in all other similar cases, the moment men begin to indulge in the seductive habit of attributing intention, purpose, design, or what not, to the drift of phenomena, that moment they turn their eyes from their real connection and delude themselves with vain imaginings.

.... RUBBER TIPPED PENCILS.

On July 28d, 1867, James B. Blair obtained a patent for a rubper head for lead pencils, claiming, as a new article of manufacture, "an elastic erasible pencil head." The patent was acquired by "The Rubber Tip Pencil Company," who pretended that the patent gave to them the exclusive right to make rubber heads for lead pencils and under threat of legal proceedings against all who proposed to make such articles, they prevented competition, obtained a large business, and soon grew wealthy. A few stationers, however, ventured to dispute the broad claims of the Tip Company, and a suit finally came to the United States Circuit Court for trial. The defendants alleged that the rubber head claimed by the plaintiffs was simply a bit of rubber with a hole in it, on which a patent could not be sustained. The court took the same view, and decided that the patent was invalid. An appeal was then taken to the United States Supreme Court, as will be seen from our report on another page. The Supreme Court affirms the previous decision, thus completely rubbing out the absurd claims of the erssible pencil head Tip

the advantages we have squandered only by the creation of great forest reserves, with a general commission of forestry to see to their protection. Had we a strongly centralized feasibility, except perhaps in regions like the Adirondack Wilderness, where the soil is unfit for anything else, and where such precautions are very little needed. Within our ally thoughtful physician was speaking about the large personal recollection, large areas in Clinton and Essex counties have been twice stripped of timber by lumbermen and charcoal burners; yet to day the same hills are covered with worthy of perpetuation—those who have least to transmit to $^{|}$ a thrifty third growth. Where the difficulties of transportatheir offspring—multiply the most. Men know that they are it on are so great, there is little danger that the natural wood slowly dying of an incurable disease, and that their children growth will fail to keep pace with the wood cutters. It is only where land has been cleared and brought under tillage, death; yet they multiply to the last, just as plants when or laid waste by repeated fires, that special effort is required struggling under unfavorable conditions invariably run to for the restoration of the forests. The fears that have been seed. It scems," he continued, "as though Nature, con- expressed in regard to such irreclamable wildernesses as those

Besides, it is a general distribution of woodlands, not local forests, however extensive, that the country chiefly We have little faith in the theory which ascribes infinite needs. The farms of Central New York are benefited by the farmers of the West require frequent spaces of woodland, to break the storms of the prairies, to regulate the rainfall wood. Great forest reserves in Michigan or Wisconsin would fere in his behalf would be as unreasonable as to expect her local measures for the cultivation of trees; and the most to make a special effort now and then to help water to run that they should ask of government is a law authorizing townships to compel the gradual conversion of unused land into woodland. In every part of the country, there are tracts of land held by individuals or by corporations for speculaour medical friend asserted? To agreat extent they do; but tive purposes. Very largely such landholders are non residents, who count on being enriched through other men's efforts. While A, B, and C are clearing their farms and establishing schools, churches, and other conditions of civiliza tion, a market is made for the lands of D, who contributes nothing to the advancement of the new society, yet gains in the end perhaps more than the actual settlers. It would be no injustice to him to make him do his part towards the building-up of the community through whose labor he is made rich; and there is no way in which this could be more surely accomplished than by compelling him to plant a portion, say one tenth, of his idle land to trees every year. There would be no injustice in this, for the growth of the timber would add year by year to the value of his investment, while the resident community would be benefited by securing a local supply of fuel and lumber with all the climatic advantages of abundant woodland. The settler can ill afford to wait twenty or fifty years for the maturing of a crop; the speculator on the other hand, who is simply holding the land for its "unearned increment," can well afford to have a legitimate increment in timber growth slowly swelling the value of his investment. The necessity of planting might limit his purchases, but it would scarcely limit his profits in the end.

> In all the older States, there are vast areas of waste land owned by railway companies and other corporations, much of it of little value for plow land or pasturage, yet well suited for the growth of wood. The railway companies are in the habit of sending to the remotest parts of the country for ties, when, by the exercise of a little forethought, they might grow them more cheaply at home. It would be to their advantage in the end, as well as a benefit to the community at large, if they were compelled by law to do so.

> So too in mining regions, as in Pennsylvania, where miles and miles of mountainous country have been stripped of timber and scourged by fire until nothing remains but black ness and desolation. With their abundant riches underground, the great coal companies can afford to neglect the land above; but the State at large cannot long afford to let them do it. Such waste of woodland has brought ruin to every country that has permitted it; and if the owners of the soil will not restore its natural covering through enlightened self-interest, the inhabitants of the State will have to interfere in self-defence.

Fall of a Meteoric Stone,

The Times has already made mention of a brilliant metcor that was seen at Iowa City and other points in Central Iowa. on the evening of February 12, at half past ten o'clock. Its course was from southeast toward the northwest. It was apparently about half the diameter of the moon, and accompanied by a beautiful train. The color and vividness were about like that of molten iron. While in view it was seen to separate into many fragments, and, after about three minutes, the reports of three explosions were distinctly heard. One of the fragments seems to have fallen about three miles south of the village of West Liberty. An observer near that point says: "For fully a minute the heavens were lighted by the fierce glare of the swiftly descending fire ball; and when it struck, the earth shook as from an earthquake for miles around, and the noise of the concussion was heard by the people of Grinnell, 95 miles away. The fiery ball, striking terra firma in a large open field, frightened residents in the vicinity half out of their wits. It sank fifteen feet into the ground, and left a hole of that depth and ten feet in diameter. For hours it continued to spit forth flame, crackle, sputter, smoke, and occasionally discharge loud cannon-like reports, to the infinite terror of the people in that vicinity. None dared approach There is probably not a periodical in the country which while this miniature volcano continued in action; but with the cessation of life, hundreds gathered around to investi-

turists' Association, at the recent annual meeting of that body, briefly recounted progress during the past year, in his opening address. Shad have been put on the Pacific coast, and captured in Sacramento river where they have never be fore been taken. So,also, bodies of water previously destitute of fish have been well filled with salmon trout, white fish. and various varieties of bass. Experiments are in progress with relation to the sturgeon, and it is believed that this val uable and large fish, may be successfully artificially hatched

NATURE'S EFFORTS.

"If Nature put not forth her power, about the opening of the flower, who is it that could live an hour?"

So argues one of Tennyson's "Two Voices," anent the "stirring of the blood" which makes youth ambitious of great deeds. As poetry it is admirable, it lying in the province of poetry to personify all things, Nature not excepted. As prose, it would be less commendable; as Science, utterly intolerable. Yet men who think themselves scientific not

'ompany

WASTE LAND AND FOREST CULTURE.

After a century spent in spoiling our woodlands, we are, as a people, slowly awakening to the fact that the chief end of man is not to cut down trees. We are beginning to learn also that, so far from being incompatible with forests, permanent civilization is impossible without them, that the tree slayer's ambition to bring the whole land under tillage would result, if successful, in making tillage a waste of labor through climatic disturbances. Alternations of drouth and deluge, blighting heats and blasting colds, have ever been the penalty for general forest destruction; and many a land once fertile is now a desert for this cause alone. Indeed woodlands are to climate what the balance wheel is to machinery, the great conservator and regulator, without which all other conditions are wasted.

has not had more or less to say about the waste of our woodunfrequently indulge in expressions in the same strain, which, lands. The general opinion seems to be that we can recover 'gate the wonder."-Dubuque Times, February 19.