grown, chiefly from the northeastern portion of the State of | faces of the assembly New York. A considerable portion of the imported is Rusvalue and more difficult to use.

What is required at this time is that our farmers attend to the requirements of fertilizers and the rotation of crops necmay be easily supplied at home.

This is the first step, and if it cannot be secured without the assistance of a flax association, such should be organized.

The value of the flax industry to Russia is above \$100,000,-000 annually, the exports of linen goods by England is upwards of \$50,000,000 annually, while the number of looms with Keely's previous glowing predictions. in Great Britain in 1870 was 39,738, and in 1875, 51,601, having increased tenfold since 1850.

The establishment of a linen industry in America is not a work of a day, but the fact that the country has every incite our people to make the necessary effort. Much inventive skill would of necessity be called into action to supply labor-saving appliances, and considerable capital, labor, and patience would be required to obtain success. The government should be willing to accord it the same assistance, the silk industry, and with that there need be no risk of ultimate success.

## A KEELY SEANCE.

lion dollars' worth of the stock of the Keely Motor Company, the nine men going without work, the probability is rather rates of wages higher, the working day shorter, the intelrecently gathered at the Fifth Avenue Hotel, in this city, for that they will have more work to do, at higher wages, and ligence of the native working class greater, than here in the purpose of hearing a statement from Mr. Keely "as to ten other men will be called in to help them. That is the the present condition and future prospects of the company." way labor-saving inventions usually work. The proceedings began with a report from the board of directors to the effect that they were "convinced of the entire in- Arkwright's jenny would ruin their business; so they times the world over of late years; the American workers, tegrity of Mr. Keely, and ultimate success of the new motive smashed it. The weavers did the same by Cartwright's however, least of any; and of these, machine users have standstill, owing to the funds having been exhausted eighteen merely of English spinners and weavers, but the number of tistics could be given to prove the assertion made a moment months ago. The directors had personally contributed working Englishmen of all trades. The wealth of England about \$4,000 more, which, according to Mr. Keely, was all their doing. The early commercial and industrial prosperity duced. For the sake of variety, take a less striking case. that was required to "carry the enterprise to a point of of our own country was very largely based upon cotton; but patenting and render it able financially to take care of itself." where would our cotton crop have been without Whitney's This address was not enthusiastically received.

which would produce vibratory inductions. The system be-the apparel of millions, ing now changed, all that was necessary was to intensify to Quite as marked has been the influence of labor-saving get the vibratory inductions to produce power. Still it was machinery in the production of breadstuffs. But in estima an infinite success. It necessitated (sic) to carry undulatory | ting that influence it will not do to calculate how many men action to intensify the undulative process to intensify the it would have taken to sow by hand and reap with a sickle undulative force. He had demonstrated by rotating ma- the two thousand million bushels of grain we raised last year, chinery have more than kept up with the increase in wages; chine the action of vapor under vibratory rotation. Suc and then say that the excess over the number of farm hands and the relative cost of making cotton goods here compared cess had been encountered at every point. All that is employed were so many men shut out from work by machin with the cost in other countries is so low that we not only needed now is a tube that will stand 25,000 pounds press- ery. It is to labor-doing machinery that we owe the possibil supply ourselves but are able to export, and thus secure bratory induction than a gallon at undulatory process. The ducing regions of the interior. Without machinery to plow idle. peculiar feature of the new machine is inducing operation, and sow and reap and carry the product to market, the induce without connecting the vibrating medium. The success had ment to open up the Western wilderness would have been as been triumphant. The motor is not microphonic or acoustic, slight as the possibility of its execution. The West owes every and hence his investigations differed from those of "Mr. Ediphone," who did not work by globular transmission. Keely produced evolution by vibratory induction. The machine was strong enough for undulatory process for single reaction free of compound reaction, which is disadvantageous. By September 1st he would show the stockholders the "luminosity of the ether," and it followed that the moment scientists saw that they would be convinced. A pressure of 28,800 pounds had been maintained, and the motor was a

Mr. Keely's remarks in this strain—and the sentences above given are quoted verbatim—continued for some twenty minutes. Although, as is obvious, they were nonsense, unalloyed by even the semblance of sense or logical connection, they were listened to with profound gravity, though toward duced, in even greater ratio, in purely mechanical indus-produce 150 tons a day.

and some Irish. The use of American flax is for the most sary was not subscribed the 124 shares of stock in the treasury, the invention and improvement of machinery. part to adulterate the better imported kinds, and thus lessen or else territory, would have to be sold. One half of the the cost of the product. There is a general complaint that New England States, valued at \$450,000, had only elicited a undue expansion in all directions, times of over-stimulation the American fiber is less skillfully cared for, and carelessly bid of \$1,500. The motor was a grand success, and there and over-production, and that we are suffering the consecured and prepared, and certainly its value, 9 cents a pound, was no doubt but that a 150 horse power machine would be quences now. To a large extent true; but machinery was indicates that either too little attention is given to the growth going by September 1. He vigorously remonstrated against not to blame for that. If it were, manufacturing countries of the flax or to the preparation of the fiber. The imported funds being raised by contributions of stock for resale. would be the worst sufferers now, which is not the case. flax fiber, simply separated from the coarse stalk and with the "Stock isn't money," he remarked. Finally he reached the Nor is it true that employments into which the largest protow still in it, and not of a fine quality, has a value of 12 and, true inwardness of the meeting by announcing that Mr. portion of labor saving inventions were introduced are now 15 cents per pound in Belgian and Russian ports. Upon Keely's salary for nine months, \$1,800, had not been paid; worse off than others. On the contrary, those are the emthis there is still an additional cost of 30 per cent duty, be- nor had the Secretary's-a like sum. This rather disheartened ployments best off to-day, the employments which show sides cost of transportation, making the cost of a good qual-the stockholders, as it was not clear, if \$3,600 were taken fewest men out of work. It is chiefly in those lines of ity of Belgian flax at this port nearly 20 cents a pound. But from the prospective \$4,000 to pay Keely and the Secretary, manufacture in which new and improved machinery has so little of this is used, and that to give a better finish, a longer | how such expensive undulatory processes and vibratory in- | improved and cheapened the product as to exclude foreign and stronger fiber to thread, but is largely adulterated with ductions could be got for the remaining \$400. There being competition and gain the world for a market, that business the cheaper Canadian, Russian, and American. The crash a general repugnance to a subscription list, the stock contri- is most active to-day. Witness the shoe trade. Within mills would use the American fiber altogether if its character bution was finally agreed to, and the price of shares fixed at twenty years invention has turned over to machinery not could be depended upon; but from its careless manipulation \$20 each; but when we departed no eagerness was manifested less than 85 per cent of the work, yet that machinery has and want of attention to growing and dressing it is of less to contribute stock, and there seemed to be a widespread made occupation for more men than it has displaced. By aversion to buying any.

educated, are an apparently intelligent body of gentlemen, of the wages paid to the factory hands, machinery has essary to grow the fiber to perfection, and then sow the all belonging to the upper walks of life, and probably are as gained for American shoes a market wide as the world. proper amount of seed, 2 to 3 bushels per acre, pull it before good a representative body of the business men of this city as As a natural consequence many more shops are required to it is over-ripe, steep it, and spread it just long enough to sep- | could be collected. It is, therefore, all the more surprising meet the increased demand, more workmen are employed, arate the fiber completely, and the present demand for flax that individuals of this stamp should be so lacking, not higher wages are paid, and multitudes are furnished with acumen, as to become the dupes of Keely. Yet they have in putting up and transporting the additional product, in The importation of raw flax is about 4,000 tons annually, at have invested large sums of money upon the chance of its productive industry. Thanks to labor saving machinery a cost of about \$1,250,000, the importation of linseed about ultimate success. Their reluctance to come forward in an- our leather industries have been raised to the front rank, \$6,000,000 annually, and of linen goods about \$15,000,000 swer to the Secretary's appeals for them to "protect their along with those of iron and cotton and flour; and from sion, not of the infeasibility of the scheme, but of the fact turned, and our people are employed by the thousand in that it involves very much more disbursements than accords making shoes for other nations. The same may be said of

## AN INDUSTRIAL PARADOX.

Common sense is a capital guide—when it is properly educated; otherwise it is the basis of all delusions. The uninlabor-doing machinery. To them the case is plain. If ten one invents a machine wherewith one man can do as much as the ten have been doing, nine men must lose their job. Henceforth for them Othello's occupation's gone. That is common sense. But fortunately it is not common experi- that men are made of less account thereby and wages de-Forty gentlemen, representing, as we are informed, a mil-lence. Here comes in the industrial paradox: So far from

The common sense of English spinners told them that power," but that the affairs of the concern were now at a loom. Yet these two inventions doubled the number not \$9,000, and now called upon the stockholders to put in as to a principal part of its trade and commerce is mainly gin to clean it and Lowell's loom to weave it? The demand Mr. Keely then remarked that after an elaborate research for American cotton was as nothing without the one, and of two years he was now able to prove the practicability of could not be met without the other. By their great saving his system. The difficulty had been in getting apparatus of labor they gave occupation to thousands, and cheapened

The volume of half a pint of water is more at vi- ity of any crop at all in the larger part of the great grain pro thing to machinery. In our great grain-producing States, in spite of-more correctly, in consequence of-the rapid introduction and improvement of agricultural machinery, the farmers and farm hands increased in number more than 50 per cent during the ten years ending 1860; and about 30 per cent during the next ten, notwithstanding the losses incident to war. This was 13 per cent more than their share of the gain of the entire population. Yet there never was a time when labor-saving machines were introduced more rapidly or in larger numbers.

> during those twenty years, and these made the increase of farm hands possible. True, but the same effect was pro-

thread mills, 4,000 tons are imported and 1,000 tons are home the end a puzzled expression was generally apparent on the tries, where the displacement of manual labor was still greater. During the same years the increase in the number The Secretary, Mr. C. H. Schuellermann, then began a of hands employed in manufactories of all kinds more than sian, a part, that of the best, is Belgian, a part Canadian, series of appeals for funds. He said that if the \$4,000 neces-doubled. Yet those were years of wonderful progress in

Again, it is objected that those were flush times, times of improving the quality and lessening the cost of shoes, in The Keely stockholders, so far from being ignorant or un-spite of a large increase in the cost of stock and the doubling merely in special scientific knowledge, but in ordinary new employment in tanning the additional leather required, undoubted faith in the deception as a business venture, and making the machinery used, and in collateral branches of property" with more cash, seems due to a dawning impres- having other countries make our shoes the tables have been scores of useful products; and with many others there would be no possibility of their furnishing employment to any of our people were it not for our superior machinery. How, for instance, would it have been possible for us to compete with the hand looms of England and France in the weaving requisite of the world for its successful establishment should structed common sense of mankind invariably avers that the of carpets? Without power looms for this purpose we world is flat; but, the Rev. Jasper to the contrary notwith- should have to import all our carpets; with the labor saving standing, we know that it isn't. The common sense of the inventions of American mechanics, we make our own carworking class, by no means the least intelligent part of the pets, and so give employment to thousands of our own citcommunity, has invariably objected to the introduction of izens. Only by means of inventions, which enable a few of our well paid men to do more and better work than many by way of a duty upon imported goods, which it afforded men are doing a certain kind of productive labor, and some ill paid foreigners, is it possible for our industries to control our own markets, let alone those of other lands.

We hear it said that machinery subordinates mind and manual skill to brute matter, and so debases the worker; pressed. Where is the proof? Where will one find the America, where machinery is most used? And where in America is the artisan better off than in our manufacturing towns? The laboring classes have been distressed by hard suffered far less than manual laborers. Trustworthy staago, that the wages paid in shoe factories are now or lately were double what they were before machinery was intro-In the introduction to the American edition of the Swiss pamphlet "Look Out for Yourselves," the editor says that the books of a New England mill, which has employed from 350 to 450 hands for 45 years in the manufacture of the same grade of standard sheetings, show that the product per hand has more than doubled since 1835, and nearly doubled since 1855. Meantime, while the hours of labor have been lessened, the average daily pay of the operatives has increased since 1855 over 22 per cent for females and 46 per cent for males. This on the basis of even the low prices of January, 1878. Fortunately improvements in maemployment for many that might otherwise have to go

A volume of similar illustrations could be given if needed, The reverse would naturally be expected, but experience shows that instead of lessening the demand for labor, laborsaving machinery so called invariably increases the demand. The effect of machinery in compelling rapid readjustments of labor, and in crowding the incompetent and unimprovable to the wall, thereby intensifying the struggle for place, and the ultimate effect upon the intelligence and versatility of the artisan class, must be left for discussion hereafter. ----

## Tennessee Steel Works.

The first open hearth steel ever made in the South was turned out June 6th by the Roane Iron and Steel Company But it may be said that this is not a fair illustration; a of Chattanooga. The cast, an experimental one of six tons vast multitude of new farms were brought under cultivation product, by the Siemens-Martin process, was a perfect success in quality. Specular ore from near Cartersville, Ga., was used. When in full operation the company expect to