James Watt Anniversary.

versary of the birth of James Watt, was held on Saturof Mr. John Ward, of the Leven Shipyard, Dumbarton. fifty, also included many of the leading members of the trades interested on the Clyde.

The chairman, in submitting the toast of the eve- achievements will not be defined." ning, "The Memory of James Watt," gave a succinct their country, and deserve well at our hands, so do we, or we ought, as lineal descendants of our patron saint, take pleasure in meeting together to celebrate this, the third jubilee anniversary of his birth, and hear once again of the intellectual battles he fought, of the victories he gained, and of the honors he won-battles his country and to mankind in general because they songs. were peaceful; and honors which deservedly crowned him with wealth and fame, but which fell far short of what would doubtless have been his had his battles been of a military character, and his victories gained hearths and homes.'

efforts and later successes of Watt, the speaker said hours, for overtime. Should the measure pass, it is esthat it was a duty lying on "any one proposing this timated that it will take about three millions of dollars so.—American Artisan. toast to bring to remembrance the great help Watt to pay the bills. City governments are susceptible to had received from that great and inventive genius several influences which would favor the success of a who was so closely associated with him in his later movement of this character. The favor of the working improvements on the steam engine. I refer to our classes, the ability to increase the number of employes recently had occasion to enlarge a small negative of a countryman, William Murdoch. This great and ori- and thus incidentally reduce the number of needy per- child clothed in a fine white lace dress, upon gelatine ginal genius was engaged by Boulton and Watt in sons, are some of the considerations which make city 1777 (three years after their commencement in busi- governments regard the movement favorably. In a taining sufficient detail in the dress without sacrificing ness), first as a mechanic at 15s. a week, and latterly few instances the eight hour system has been adopted the high lights in the face. An exposure for the face in directing the erection and working of the mine engines set up by the firm in Cornwall, the salary tated. given him by them for this work being £1 per week. At the age of 44 he asked for an increase, and not receiving a prompt reply, he resigned his position.

'As a result of this the firm showed the appreciation in which they held him by offering him the general managership of their works, at a salary of £1,000 a by bettering the condition of the wage-earning class, was focused on the enlarging screen, the size of the face year, which he accepted. But that his resignation elevate society as a whole. Although, as has already being exactly the same as that which had previously had taken place before any tangible appreciation of been noted, those who demand a reduction in the been cut out. Then an exposure was made for fifteen his worth was given by the firm, even when holding hours of labor express a willingness to accept a correseconds on the sensitive sheet, the cap of red glass was a position of trust, leaves an unpleasant feeling in the sponding reduction in wages, it is evident that this is next put over the lens, and the cut-out sheet of paper minds of impartial thinkers. As the inventor of the merely a temporary expedient to let employers down representing the face was slightly dampened and placed first locomotive engine, of the first oscillating and the easy. The advocates of the eight hour movement ex- in position over the image, on the screen, so that it first slide valve engines, Murdoch showed his wonder- peet that after the system has been inaugurated they matched the image exactly. The moisture in the paper ful ability and genius; but especially as the founder will then be able to secure an advance of wages to old was sufficient to cause it easily to adhere to the sensiand inventor of gas lighting will his name ever be ten-hour rates. Indeed, as much was acknowledged tive sheet. After this a second exposure for fifteen secbest known to mankind. If, however, Boulton and publicly by the principal speaker at a monster eight onds more was made, then the cut-out sheet was re-Watt made scant recognition of his worth until com- hour meeting in Chicago held recently. His words moved and the sensitive sheet developed in the usual pelled by his leaving them to do so, what shall we say were that "if the eight hour movement is pushed manner. One portion of the picture had twice as much of those who have for many years taken the free gift to a successful issue, twenty per cent more labor exposure as that which was masked. As a result, the which he gave to the world, and especially those who would be needed, and that as the demand for labor fine delicate tracery in the white dress was fully have and are making large fortunes thereby, without increased, wages would become better and better." brought out, while the high lights of the face and other any recognition whatever? Right glad am I to know, This we believe to be the "milk in the cocoanut." The masked portions were well preserved and of agreeable gentlemen, that there some members of his profession advocates of the eight hour movement expect, in re-quality. The dampening of the film of the sensitive with us this evening who are at this moment striving ality, to cut down the working day two hours, and re-sheet while on the screen did not injure in the least the to atone for past neglect, and in the success with which ceive the same pay, after a little, as at present. their efforts for a national memorial to him are being crowned, are doing honor to his memory as well as to of the hours heretofore constituting a day's work canthe profession which they themselves adorn."

remains as Watt left it, his successors in the profession is done on the piecework system, the adoption of the wood hoop, four feet in diameter. laid. The men of the Clyde, and particularly mem- in the majority of cases, where the work is largely done light. bers of this association, have pride in knowing that by the piece. An increase in the number of persons the greatest improvements on the steam engine since employed would require more space, more tools, more the days of Watt have emanated from brains trained, machinery or apparatus, and would in some instances as his was, on the banks of the Clyde-notably sur- call for the employment of additional help which does brings out the full effect of the weak illumination, and face condensation and the compound marine engine; not work by the piece. This would be particularly is admirably adapted for small sized pictures. while more recently engines with great pressures, and true in large cities, and will be apparent to intelligent triple and quadruple expansions, are the latest laurels readers without going into a detailed explanation. In of the profession. And so the steam engine goes lines in which costly machinery is employed, it is often steadily forward on the march of progression, until necessary to keep the machinery running long hours of Rahway, N. J., "assayme," is produced by a now we see it the great lever which has influenced in order to obtain a just return for the investment. On special treatment of tin. It has all the good qualisociety, and brought about more changes upon the the whole, the conclusion is inevitable that a reduction ties of the latter, can be pressed into any shape, or face of the world than any other power. Steam navi- of the hours of labor is equivalent to an increase in cast into statuary, or used for plate ware of any degation has also made great progress within the last 25 running expenses. This increase may not be quite in scription. A beautiful bronze color can be given to years. True we have the Great Eastern, which must the exact proportion of the reduction in the hours of the metal, or any shade from bronze to a silver color; ever remain a tribute to Brunel & Scott Russell'sgenius, | labor, where the piecework plan is in operation, but it | and as it does not in the least corrode, it is specially but as a profitable and speedy steamer she was never will approximate to it in many cases.

and choicely worded resume of the life and work of of Glasgow," submitted by Mr. J. M. Cherrie, of Parkthis illustrious engineer. In introducing his subject, head Forge, and responded to by Mr. Underwood, U. S. he said: "Just as we love to remember in our family Consul; "The Association of Foremen Engineers," prolife, and our national life, the birth anniversaries of posed by Mr. P. Denny, Jr., and replied to by the Crouthose near and dear to us, or who have done well for pier; "Shipbuilding and Marine Engineering on the Clyde," proposed by Mr. J. W. Millar, replied to by Mr. J. P. Wilson; "The Iron and Steel Trades," proposed by Mr. J. Turnbull, Jr., acknowledged by Mr. far a restriction of production and enhancement of the McLelland, of the Steel Company of Scotland. Other toasts were: "The Railway Interests," "The Visitors," "The Chairman," and "The Croupier." In the course none the less real because they were bloodless; vic- of the evening, which was much enjoyed throughout, tories none the less enduring and of lasting benefit to several of the company entertained the gathering with strate. Capital will not seek investment except where

The Eight Hour Movement.

Congress long since enacted that eight hours should constitute a day's work for those engaged in the employ adhered to, and a measure is now before Congress to by cities, while in others the question is now being agi-

The arguments used in favor of eight hours con- in the dress. stituting a day's work are primarily that it would give of the labor market; that it would give more time for face and other portions of the picture which we wished to recreation, mental and social improvement, and thus,

So important a matter as the dropping off of one-fifth being content if they could simply add their stone to eight hour system would make no great difference.

successful. Dr. Lardner, in 1835, addressing a Liver- In enterprises where labor is paid for by the week or of 432 degrees, or 18 degrees less than tin.

pool audience, said: 'As to the project which was an- month, the increase in the cost of production by a re-The anniversary dinner of the foremen engineers of nounced in the newspapers of making the voyage duction of the hours of labor is entirely obvious. A the Clyde, in honor of the third jubilee or 150th anni-directly from New York to Liverpool, it was, he had concern employing one hundred men ten hours would no hesitationin saying, perfectly chimerical, and they lose twenty days' work every day by the adoption of day evening, the 23d of January, in the Grand Hotel, might as well talk of making a voyage from New York the eight hour system; an establishment employing Charing Cross, Glasgow, under the genial presidency or Liverpool to the moon.' That declaration can never five hundred men would lose one hundred days' work be more fitly recalled than at a time like this, when every day. This will give an idea of the amount of The occasion was marked with all that enthusiasm and marine engines admit of vast power being packed in reduction in production which would arise from the esprit de corps for which these annual dinners are little space—when we have steam at sea as on shore, adoption of the eight hour system, with present workfamous. The chairman was supported by Mr. F. H. cheaper than the unbought wind, and when enormous ing forces. A corresponding reduction of wages, if ad-Underwood, Consul for the United States. The crou-floating palaces are constantly making the passage in hered to, would, of course, relieve employing producers pier's chair was filled by Mr. G. Russell Motherwell, a little over six days. What further advance remains in a measure, but could not altogether compensate for who is president-elect for next anniversary. The to steam navigation it would be unwise to conjecture, the reduction in labor. But, as we have already noted. gathering, which numbered about one hundred and but we know that at the present moment we are build-it is not expected that wages would remain permanently ing on the Clyde vessels to beat the highest speeds we reduced. It is hard enough now for thousands to live, have yet reached, and even then the limits of steamship both day and piece hands, and they would not consent to a reduction in the hours of labor if they expected a Succeeding toasts were: "The Trade and Commerce corresponding permanent reduction in wages. Such a reduction would only bring increased privation in families whose lot is already hard enough.

The conclusion is inevitable that a general adoption of the eight hour system would increase the cost of production and enhance the price of goods to consumers, including, of course, wage-workers themselves, and would have a tendency to stimulate immigration. How selling price of goods would reimburse manufacturers for the disadvantages which we have shown would accompany the proposed reduction in the hours of labor, is a matter which experience only can demona profitable return seems clear to the investor. How far the adoption of the proposed measure would influence capital unfavorably, it is difficult to say. One thing is already a fact in Chicago, and that is that bids and estimates for public and private buildings, at the loss of precious lives and the desolation of many of the United States. The enactment has not been now offered, contain a margin of some thousands of dollars for possible labor difficulties, and this will have Having traced in a highly interesting way the early reimburse those who have worked more than eight the effect, in some instances, at least, of influencing some parties to defer building who would otherwise do

PHOTOGRAPHIC NOTES,

Method of Producing Uniform Enlargements.-We bromide paper, and experienced some difficulty in obwas too short for the dress, inasmuch as the density of the negative in the face was out of proportion to that

Having already spoiled one enlargement by over-exemployment to many more persons and relieve the glut posure, we took a pair of scissors and cut out of it the have protected, and proceeded as follows: First the image resulting picture.

Improved Screen for Lantern Pictures.—In a lecture recently given before the Society of Amateur Photonot fail to be of great importance to employers, and graphers of this city, by Mr. Geo. M. Hopkins, on "Po-Speaking of later times, the speaker concluded: they are, as a matter of course, considering the sub-larized Light," a simple, but effective, screen was "While great improvements have since been made ject in its various bearings upon their interests. In a employed. It consists of heavy bluish white tracing upon the steam engine, yet in essential points it still few lines of manufactures, in which most of the labor paper, secured by mucilage or flour paste to a common

The audience viewed the pictures from the s the structure whose foundations have been so firmly This would not be the case, however, in many, if not the screen opposite to the lantern, or by transmitted

The full benefit of the illumination was thus obtained.

For lanterns lighted by kerosene oil it undoubtedly

A New Form of Tin.

A new metal, called by the inventor, Albert Assman. valuable as a silver solder. It melts at a temperature