found.

The operation, consequently, was carried into would be exhausted. effect upon pig iron melted in a cupola instead of | Experiments to test the invention will, we authority were restored. I also had an under- to perform for myself. I bid them farewell, melted iron flowing from a blast furnace; but this hear, soon take place. It will be advisable standing of the literal fulfilment of the pro- and returned to Hyrum Smith, who took me to bulk from which the contents of Mr. Bessemer's diversified as circumstances will permit. The lieve in and hope for the literal restoration of county, New York. He there introduced me cylinder were taken being less than that of 'a invention is so important that no conceivable Israel, the cutting off of wickedness, the second to the three witnesses whose names appear at charge' in a blast-furnace, the heat, in all proba- test ought to be omitted, for by its capability coming of the Lord Jesus, Christ and the tri- the beginning of the Book of Mormon, also to bility, was less, and the metal, consequently, not of standing these tests its value must be ascer- umph of his kingdom on the earth. All this I the eight witnesses. I conversed with Oliver

of the contents of the cylinder into bar iron. No fect; in its practice, beyond the experimental while doing this I found, as I before stated, as you can learn by reading his testimony. attempt to do this could be made in consequence range of Mr. Bessemer, some difficulties are the Book of Mormon. I read it carefully and After being baptized, I was confirmed in a of none of the machinery for the purpose having assumed, but they are not considered to be in- diligently, a great share of it, without knowing little meeting during the same day, was full of been erected in connection with establishments surmountable, and while the testing spirit is that the priesthood had been restored, without the Holy Ghost, and was ordained an Elder. for melting iron in the metropolis or its neighborhood; but the fact that melleable iron, fibrous iron, has been made by Mr. Bessemer's process, is, we understand, placed beyond doubt by the exhibition of bars that are the result of the process.

Thus the process would seem complete, and the evidence of its completion before our eyes. Still ground, be able to speak of one of the greatest of the translator, but I had not seen them, I I have testified and do still testify of the the discovery is so simple, yet so great and unexpected, and the results so extensive and important, that some amount of doubt as to its immediate perfection may be excusably entertained.

There is not, so far as we can understand, any chemical difficulty whatever in the way of the invention. On the contray, through its chemical action-that is, by the infusion of compressed atmospheric air into the mass of melted iron in the cylinder-it works out the chemical change effected by puddling, and at the same time supplies that mechanical motion in the mass which the puddler with his long iron bar can only with great labor effect.

The liquid iron, owing to the intense heat gained, literally boils, bubbles, and the scum is cast off; taken from the cylinder in this state, it is 'semi-steel;' allowed to remain a little longer, it becomes, as thickened liquids after the evaporation of portions of their aqueous contents often do, of a pasty and stringy character-of that consistence that gives the fiber to the iron.

How this is effected is not quite clear. We know the modus operandi, but the cause of the change is beyond our view. In the case of Mr. Bessemer's iron, it seems to be effected by intense heat; in the present practice the heat is less, and the exposure to the influence of atmospheric air, modified or changed by its progress through the puddling furnace, would appear to be greater; for the surface of iron presented to atmospheric influence in Mr. Bessemer's cylinder cannot be more than the superficies of its circumference .-Hence, in the two operations there is an important difference. Whether that difference ends in pre cisely the same result, so far as obtaining malleable iron is concerned, is a circumstance which only practice can substautiate.

Mr. Bessemer, in the present positon of his discovery, and the comparatively imperfect state in which it has been submitted to the public, must. expect to encounter many doubts-doubts that only its general adoption can solve. As many be guessed from our preceding remarks, some of these have already appeared, and have received a most satisfactory and conclusive answer.

Another of these doubts is the character of the pig iron which has been the subject of experiment. A writer who adopts the signature of 'Ironmaster' wishes to know what the quality of pig was that he used in his experiments; whether it was cold as a knowledge of this is necessary to render the comparative loss by puddling and 'beiling' accur- importance. ately known-and, of course, to some extent, the

value of the invention. of Shropshire pig iron of such excellent quality that, upon being heated in a blacksmith's forge and hammered, it was, without puddling or any other process, converted into excellent malleable

the qualities that constitute good iron, further mission' to which I was appointed among you, than to state that its ductility and capability and to journey to the States on a mission, of extension, either by elongation or in breadth, rise to express my feelings and my faith, and or by both with its anti-laminating nature, to leave my testimony with you. are the constituent merits of high class iron. It is, of course, too soon to ask that Mr. gation who personally have been strangers to for it was not my mind to read the book through for I was an hungered and ye did not feed me; Bessemer should present us with specimens of me and who have not heard my testimony. I at once. I would read, and then read the I was naked and ye clothed me not; I was sick, iron of the high quality we have indicated .- have been acquainted in this Church and con-All that the terms of his invention allow us to nected with it, from the first year of its organ- I was filled with joy and gladness, my spirit not; I had a mission to perform, and ye took require is that malleable iron produced from ization in the wilderness of western New York. was made rich and I was made to realize, no interest in it. And this is, indeed, a high requirement. One of the principal, and most expensive, and most September following. laborious processes in iron-making will be sufibrous iron. Improvements would naturally and that too without being crowded, for at follow; and the cost of iron being reduced, its times I presume there were not fifty. wonderful adapta bility to the requirements and ever progressing, devised.

merely with regard to its local or national, but from the residence of Joseph Smith, the Protake place, hence a greater demand, a greater bellites or reformed Baptists. manufacture, and greater employment. No I had diligently searched the scriptures, and useful invention has ever diminished employ- prayed to God to open my mind that I might last days. ment. A change of the mode of employment understand them; and he had poured his Spirit has become necessary; but the more readily that and understanding into my heart, so that I did home to my faith, my senses and my knowledge, change has been accepted the greater has been understand the scriptures in a good degree, the with a warmth, love and assurance that I preach the gospel of Jesus Christ and bear the well doing of the individuals concerned .- letter of the gospel, its forms and first princi- could scarcely contain, for I had either studied testimony of those things which I most assur-In the present case, so hard and so life-destroy- ples in their truth, as they are written in the ing is the puddler's labor that we believe there Bible. These things were opened to my mind, his voice whispering to me. Do you not think desired, after traveling for 25 or 26 years, does not exist any serious objection to its re- but the power, the gifts and the authority of that I rejoice?'

-and their own lives are the lives concerned- knew that the things that were predicted could and solicited me to make more appointments

add, conducted with every wish to find them day. that experiments, upon a scale calculated to and people. show whether the invention is one of limited or There were the witnesses and their testimony priesthood which God has given me by testifyof universal applicability, will soon be underta- to the book, to its translation and to the minis- ing, to both small and great, of the things that ken. In a few weeks we shall, upon safe tration of angels, and there was the testimony he has revealed in these last days. verify the statements of the inventor.

cluding the making iron into pigs, and the refin- deacon named Hamblin. their attendant labor and fuel.

ed quantity of carbon present allows a part of | He told me that he lived away off, something | tion. the oxygen to combine with the iron, which un- more than a hundred miles from there, in the

with the iron. The violent ebullition going on a brother to the Prophet Joseph. This was Some of my brethren feel, once in a while, every part of which is thus brought in contact | seen. been conducted before iron masters and men of without being either sleepy or weary.

## DISCOURSE

We have ourselves, from good authority, heard By Elder Parley P. Pratt, Bowery, Sunday, September 7th, 1856.

REPORTED BY J. V. LONG.

Beloved brethren and sisters, being about to We cannot here enter into any description of depart from this Territory and from the home

There are some, I presume, in this congre-

When I first became a member of this

more and more evident, as human ingenuity I happened to see a copy of it. Some man, rected body unto them. nearly a stranger to it, and not particularly a perceive, to dwell upon the more immediate he made mention of it to me, and gave me the

awakened, that of inquiry cannot slumber, they ever having heard of anything called 'Mor- This transpired on the first day of September, must work together; and we believe we can say monism,' or having any idea of such Church 1830, and from that day to this I have endea-

tion of those earthly bases that are associated his name was Hyrum Smith, and that he was judgment, for they will be one.

hood which was again on the earth.

and I felt richer in the possession of that book, been sent. or the knowledge contained in it, than I would I will be able to say to a just person, Well could I have had a warrantee deed of all the done, good and faithful servant, for you did farms and buildings in that country, and it was good so and so to me, or my brethren, thereone of the finest regions in the world. I walk- fore enter into the joy of your Lord.' I will ed a while, and then sat down and read awhile, also be able to say to others, Depart from me, same portion over again, and then walk on. or in prison, or in a strait, and ye helped me

I was made to realize this, and to bring it continue to act. and seen him in my reflections, or I had heard edly do know, for this is my calling. I have

but neither in London nor its neighborhood are linquishment on the part of very many con- the gospel I knew were lacking, and did really | As before stated, I fulfilled my two appointblast furnaces or from mills and forges to be cerned. Less of human life they wisely think expect that they would be restored, because I ments; crowds heard me and were interested, never be fulfilled, until that power and that I told them that I would not, that I had a duty in no particular favored the experiment, for the that they should be as numerous and as much phecies in the Bible, so that I really did be- a place, about twenty five miles off, in Seneca so well prepared for that admixture of atmos- tained. These tests, so far, as we can judge was locking for, and the Spirit seemed to whis- Cowdery, one of the three witnesses, and on pheric air by which its high state of incandescence are likely to be rigorous, yet fair, and, we may per to my mind that I should see it in my the next day we repaired to Seneca Lake, where I was baptized by Oliver Cowdery, then The second condition attaching to the experi- successful. The theory of the invention, so Under these circumstances I was traveling the second Apostie in this Church, and a man ment that could not be fulfilled was the conversion far as we can ascertain, is believed to be per- to impart the light which I had to others, and who had received the ministration of an angel,

vored to magnify my calling, and to honor the

inventions of the day; and this we might say had not heard of them, and hence I had no truth of the Book of Mormon, that it is an upon the supposition that it proceeds no further idea of their organization, or of their priest- inspired record, the history of a branch of the than its 'semi-steel' process. For ourselves hood. All I knew about the matter was what, house of Israel that live in America; that it we do not quit it here, for we have faith; we as a stranger, I could gather from the book; does contain the fulness of the gospel as rebelieve that the contemplated experiments will but as I read I was convinced that it was true, | vealed to them by a crucified and risen Reand the Spirit of the Lord came upon me while | deemer, and that wherever it goes and its light I read and enlightened my mind, convinced my is permitted to shine, the Spirit of the Lord will New Mode of Manufacturing Iron and judgment and reveted the truth upon my under- | bear testimony of its truth to every honest STEEL .- The London Times speaks of the in- standing, so that I knew that the book was heart in all the world. Wherever that book is terest excited among the iron manufactories | true, just as well as a man knows the daylight | candidly perused, the Spirit will bear record of by the discovery of Mr. Bessemer, by which from the dark night, or any other thing that its truth; and I bear this testimony, this day, he takes crude iron directly from the ordinary can be implanted in his understanding. I did that Joseph Smith was and is a Prophet, Seer blast furnace, and in the incredibly short space | not know it by any audible voice from heaven, | and Revelator, an Apostle holding the keys of of thirty minutes converts it into ingots of mal- by any ministration of an angel, by any open this last dispensation and of the kingdom of leable iron or steel of any size, and fit for the vision; but I knew it by the spirit of under- God, under Peter, James and John. And not various manipulations ordinarily employed to standing in my heart, by the light that was in only that he was a Prophet and Apostle of adapt them to all the material purposes to me. I knew it was true, because it was light | Jesus Christ, and lived and died one, but that which they are now applied. He thus dispen- and had come in fulfilment of the scriptures, he now lives in the spirit world, and holds ses with all the intermediate processes to and I bore testimony of its truth to the neigh- those same keys to usward and to this which recourse has been had to produce the bors that came in during the first day that I whole generation. Also that he will hold same effect within the last seventy years, in- sat reading it, at the house of an old Baptist those keys to all eternity, and no power in heaven or on the earth will ever take them ing, puddling and squeezing stages, with all This same Spirit led me to enquire after and from him, for he will continue holding those search out the translator, Joseph Smith; and I keys through all eternity, and will stand, yes Atmospheric air is the prime element in pro- traveled on foot during the whole of a very hot again in the flesh upon this earth, as the head viding this result. The carbon of the crude day in August. blistering my feet, in order to of the Latter Day Saints under Jesus Christ iron, at a white heat, is brought in contact go where I heard he lived; and at night I ar- and under Peter, James and John. He will with atmospheric air, and the oxygen of the rived in the neighborhood of the little village | hold the keys to judge the generation to whom air combining with the carbon, rapidly pro- of Manchester, then in Ontario County, New he was sent, and will judge my brethren that duces carbonic acid gas. The rapid union York. On the way I overtook a man driving preside over me, and will judge me together of carbon and oxygen adds still farther to the some cows, and enquired for Joseph Smith, the with the Apostles ordained by the word of the temperature of the metal, while the diminish- finder and translator of the Book of Mormon. Lord through him and under his administra-

When this is done, those Apostles will judge dergoes combustion and is converted into an State of Pennsylvania. I then enquired for the this generation and the Latter Day Saints; and father of the Prophet, and he pointed to the they will judge them with that judgment which At the excessive temperature that the metal house, but said that the old gentleman had Jesus Christ will give unto them, and they will has now acquired, the oxide, as soon as formed, gone a journey to some distant place. After a have the same spirit and the same mind as undergoes fusion, and forms a powerful solu- while, in conversation, the man told me that Jesus Christ, and their judgment will be his

mixes most intimately the scoria and metal, the first Latter Day Saint that I had ever as though we were but men, which is true; and at times we are very forgetful, and especially with the fluid oxide, which washes and cleans- He invited me to his home, where I saw myself. Sometimes men will come up and say, es the metal most thoroughly from the silica mother Smith, and Hyrum Smith's wife and 'Why, do you not remember me, br. Pratt?' and other earthly bases that are combined with sister Rockwell, the mother of Orin Porter No, I do not, particularly, though your counthe crude iron, while the sulphur and other vol- Rockwell. We sat up talking nearly all night, tenance looks familiar. 'What, do you not atile matters which cling so tenaciously to iron for I had not much spare time, having two ap- remember me? I was along with you at such at ordinary temperatures are driven off, the pointments out and a long day's journey for a a place; it is strange that you cannot rememsulphur combining with the oxygen and form- man to walk. I had to return the next morn- ber me.' At such times you may think, how ing sulphuric acid gas. Experiments have ing, and we conversed during most of the night, will br. Parley, with his brethren, sit in judgment upon us, when he forgets some things and air, hot air, mine, cinder or any of these mixed,' science in London, and they pronounced it em- During that conversation I learned something cannot remember what we have done to him? inently satisfactory, and a discovery of great of the rights of the Church, its organization, I expect, by the power of the resurrection and the restoration of the priesthood and many the quickening power of the celestial glory, important truths. I felt to go back and fill the | that my memory will be perfected, and that I two appointments given out, and that closed | will be able to remember all the acts, duties my ministry, as I felt that I had no authority and doings of my own life. I will also rememand that I would go back and obey the priest- ber, most correctly and perfectly, every act of benevolence that has ever been done to me in I attended to my appointments, and was | the name of the Lord and hecause of my callback again the next morning to br. Hyrum's. | ing; and I will remember, most perfectly, every He made me a present of the Book of Mormon, neglect and slighting by those to whom I have

pig-iron, without puddling, should be shown .- It was organized on the 6th day of April, 1830, almost as vividly as if I had seen it myself, So it will be with br. Joseph, or br. Brigham, and I was baptized into it about the first of the that the Lord Jesus Christ did appear in his or any of the Apostles or Elders that hold a own proper person, in his resurrected body, portion of the keys of the priesthood to this and minister to the people in America in an- generation, if they hold them faithfully. They perseded. This is gained, if Mr. Bessemer's Church, one small room could have contained cient times. He had surely risen from the will be able to remember and understand all invention should produce only a low class of all the members there then were in the world, dead and ascended into heaven, and did come their own doings, and all the acts of this gendown on the American continent, in the land eration to whom they are sent; and they will Bountiful on the northern part of South Amer- | judge them in the name of Jesus Christ. We The first thing that attracted my attention ica, and did minister to the remnants of Joseph | will be judged by br. Joseph, and he will be the accommodations of life would be rendered towards this work was the Book of Mormon, called the Nephites, and did show his resur- judged by Peter, James and John and their associates. Br. Brigham, who now presides They did handle him, see him and examine over us, will hold the keys under br. Joseph; It has not been our purpose, as the reader will believer in it, happened to get hold of a copy; the wounds that were pierced in his hands, his and he and his brethren, who hold the keys side and his feet; and they bathed them with with him, or under his direction, will judge the and pecuniary results of Mr. Bessemer's in- privilege of coming to his house and reading their tears and kissed them, and thousands of people, for they will hold those keys to all vention. We wish to indicate its bearings, not it. This was at a place about a day's journey them did bear record of these facts. He did eternity, worlds without end. By those keys deliver to them his gospel in its fulness and they will have to judge this generation; and its social result. We take it for granted that phet, and his father, and while I was returning plainness, in the presence of thousands, and Peter, James and John will hold the keys to the cost of the production of iron will be ma- to the work of my ministry; for I was then did command them to write it in a book; and preside over and judge and direct br. Joseph to terially diminished, and the consequent appli- traveling and preaching, being connected with he promised that book should come to all eternity; and Jesus Christ will hold the ance of it to many purposes yet unperceived a society of people sometimes called Camp- light in latter days, in time for the great res- keys over them and over us, under his Father, storation of all Israel and the fulfilment of the to whom be all the glory. This is my testiprophecies relating to the great work of the mony; and in obedience to these keys, if God will open my way and spare my life, I will

I am now about to start to the States, to mostly abroad, to stay at home and minister