To-day Rochester is the centre of with the greatest degree of efficiency The Optical Industry. Probably no industry bears solthe optical industry in America and are the characteristics of the Hagen close a relation to our intellectual is the home of one of the largest products which have gained for them life or has added so much to our ac-imanufacturing concerns in the world the high reputation they now encumulation of knowledge as the in the line of optical goods. (joy not only throughout America but) manufacture of lenses. Lenses in Indeed nowhere else in the world in all parts of the world where their their many varieties and combina-lean there be found an establishment machines are in use.

tions are the basis of all our opticalin which are manufactured as the The business was incorporated instruments. By their aid through chief product lenses of all kinds under its present title in 1899 the the medium of the microscope and from the tiny 1-12-inch oil immer-executive consisting of A. T. Hagen. telescope we have brought within the sion microscope lenses no larger president; D. M. Cooper, vice presirange of our human vision "two new than a pinhead to the larger naval dent, and E. F. Underhill, secretary, worlds, the world of the infinitely searchlight mirrors (36 inches in and treasurer, their offices having alsmall and the world of the infinitely diameter) used on government ves- ways been at the same location numgreat. In the one case they have sels. In fact the history of the opti-ber 55 North Street. The volume made possible the science of cal industry in America is almost of business now transacted by the bacteriology with all its resultant identical with the history of the company amounts to upwards of a benefits to the human race; in the Bausch & Lomb Optical Company million dollars annually,

other they have enabled us to con-iwhich has been so closely identified<sup>i</sup> struct the science of astronomy with with it. The company have demonall its marvels and its revelations of strated their ability to make Amerworlds other than our own.

ican lenses which are in every re-

Composite brick is a building ma-In point of antiquity lenses as aids spect equal to the highest class Euro-terial which has within the last few to imperfect vision lead all others, pean product. The growth of their years come rapidly into prominence and it seems fittingly so, for so wide- business since its inception 54 years in this country. It has been used in spread is their use, so great the re-ago in a small store in the Arcade Enrope, especially in Germany, for lief they give, so real the ills they on Main Street to its present colossal many years, and a large number of remedy, that we cannot conceive of factory on St. Paul Street has been municipal and state buildings, a speciacle-less world. And still truly phenomenal and the interventhey are comparatively modern for ing years have been years of con-have been constructed of this matealthough we have no authentic rec-stant development and progressive rial. In every case, composite brick Block Floor-special design border with fleur-

ords, the consensus of opinion seems adaptability to modern requirements. has been found to withstand the ac de-lis center piece-private chapel in the in the 13th or 14th century. They the company's career and also in the brick and to grow harder and Bishop's palace, Ottawa, Canada, when the invention of the industry in America when the invention of printing made was their alliance in 1890 with the stronger with age.

Composite Brick.

the making and reading of books famous Carl Zeiss Optical Works of Composite brick is made from sand more common. Our modern life Jena (Germany) which name stands as a base and no clay or shale enwith its greater confinement and for supreme technical skill in ap-ters into its composition. The closer application has been the cause plied optics no less than knowledge process of manufacture follows naof rendering necessary artificial aids of theoretical optics. ture's method of forming sandstone and composite brick may be called to vision. artificial sandstone, with the differ-

Michael Doyle & Co. Spectacles, however, made their way into favor slowly, their use meeting with considerable prejudice, years a specialty of evaporated throughout and contains no cracks.

This firm has made for many ence that it is entirely homogeneous

They were long regarded as magi-fruits. Their business is well known layers nor seams. cal, and as the physicians of the time in all the leading markets of the Composite brick is not only more dissuaded people against them, the world in which these goods are used. durable than clay brick, but is task of fitting them was left largely Rochester is the center of the in-stronger and more dense, therefore, in the hands of quacks and charla-dustry and more of this kind of it absorbs very little moisture and in the hands of quacks and charla-dustry and more of this had on the state of the hands of quacks and charla-dustry and more of this had on the state of the period nothing was fruit is made in Western New York or the action of the eye than perhaps in any other part of the United States, in fact New York until two hundred years later that State produces fully seventy-five per the discoloration after it the discovery of the laws of optics country. The evanorated fruits prorevealed to us the action of glass country. The evaporated fruits pro-cold weather and the action of at-Rochester Agent - A. Adams - 29 Last Avenue lenses and enabled us to give duced in Western New York are re-mospheric gases have no deteriorat-

scientific precision to an invention garded as the finest made on account which had hitherto been purely of their superior flavor and high ing effect. empirical.

quality. The business shows a The Rochester Composite Brick

About the beginning of the 17th steady growth. From a small be- Company is a stock company organ- Buffalo Agent, Stevens Floor Co., - 658 Main Street century we find lenses used for ginning in 1870, it has assumed very ized under the laws of the state of microscopic and telescopic purposes, large proportions until there are New York, with a capitalization of The invention of these instruments fully two thousand factories in the \$125,000, and numbers among its were the direct result of the experi-state of New York engaged in the stockholders many members of the ments of the spectacle makers and evaporated fruit industry. It has diocese of Rochester. Mr. Augustus those engaged in the polishing of proved a great boon to the fruit L. McKittrick is a member of its glass lenses. The investigations of growers of the state and has stimu-board of directors. The president is later scientists as Newton, Dollond, lated the planting and caring of the Mr. Homer Knapp, and Mr. R. W. and others into the nature of light orchards in a very large measure. Holden is secretary and treasurer. At revealed new facts and suggested. The goods are shipped to all the their factory at Brighton they are new improvements and a new im-leading markets of the world. The making several grades of face and petus was thus imparted. About the European countries take the largest wall brick. The natural color is a middle of the 19th century the first quantities but shipments are made pleasing gray, but they are made in immersion lenses were produced, every year to South Africa, India, buff, brown, black and various first the water and later the oil. The Australia, China and Japan, and the shades of red. A building constructwell-known work of Professor Abbe. demand for these fruits in this form ed of these bricks never has to be painted and always gives a bright, Carl Zeiss and Dr. Schott has result-grows every year. ed in bringing the modern micros- The firm of Michael Doyle & Com-fresh appearance. Their brick are cope to its present state of perfec-pany is largely interested also in the uniform in size, shape and color and tion. The history of the develop-canning business, their specialty be-for that reason are much easier to ment of the telescope consists not in ing the manufacture of condensed lay in the wall and make a better new optical discoveries but in utiliz-milk. They have five factories at appearance when laid. ing new appliances for figuring and the present time, two in the Mohawk Their cost is but little more than polishing, improved material for Valley, two in Pennsylvania and one the cheapest of soft clay brick, while lenses, more exact methods of test-in Colorado, and their brands of in every respect they are the equal ing, and convenient methods of which perhaps the Red Cross is one or superior to the most expensive of the best known, are sold in all clay brick on the market. mounting. The science of photography had its of the markets of this country and This company is also making hyinception in 1839 when Daguerre in many of the markets abroad. The draulic stone building blocks, sills, and his contemporaries brought out firm receives on an average of over the first successful method of fixing one hundred thousand quarts of milk lintels, caps, etc., by the Ferguson the image by chemical means. This daily in their business at their dif-Two-piece System. This system furscience has provided a new field for ferent factories, which is perhaps nishes the strongest wall constructhe employment of lenses. Modern more than the entire daily supply of tion possible in a concrete building developments in glass making and the city of Rochester. This business block and in addition provides a perthe prosecution of mathematical in which was started about fifteen fect circulation of air by means of vestigations so necessary for the pro-years ago is conducted under the both horizontal and vertical air passduction of new formulae have re- name of the Mohawk Condensed ages. Very artistic effects can be obsulted in the application of more ef- Milk Company, the largest factories tained by the use of this kind of fective lens systems and the perfect- of the company being located in the blocks. The Rochester Composite Brick Mohawk Valley of this state. ing of photographic objectives. Company is also sales agent for The history of the optical industry Multi progressari, pluris non "Agalite" Sanitary Flooring, Wainin America is practically limited to constabit. scoting, Floor Tiling, Enameled the past half century. Fifty years (It costs much to be progressive, Brick and other builders' supplies. ago the optical trade of the world Samples may be seen and prices more not to be). was practically in its infancy. Eveobtained at their office. Nos. 419, 420 A. T. Hagen Co. glasses and spectacles while they had The above is the most appropriate and 421 Exchange Place Building, been in use for many years, were!



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Alter Mint in Di

crude affairs with horn, gold, or Ger-motto of the manufacturing house of 16 State Street, Rochester. man silver frames. The lenses were A. T. Hagen Co., now the largest of indifferent accuracy, ground most-manufacturers in the United States ly by hand and with comparatively and, it may be added, in the world. few foci at the disposal of opticians, of laundry machinery. Their his-

The rimless eyeglass was unknown, tory is a record of progressive de-an extensive and high class trade in Even the nosepiece which to-day velopment, of constant adaptability harness and horse furnishing goods seems so indispensable was lacking. to the ever increasing requirements is that of Charles S. Gibbs, 93 State

There were no lenses made in of our modern commercial life. The Street. The business was originally America and but few spectacle or year 1883 saw the beginning of their founded by A. V. Smith in 1859, and eyeglass frames. Microscopes were business career in very modest Mr. Gibbs was connected with it as still regarded largely as toys and fashion under the partnership name an employee from its commencewere not generally used in the of Hagen & Myers. At that time ment. In 1897 Mr. Gibbs succeeded scientific work of our educational in-their machines were built for them Mr. Smith and has consistently stitutions as they are to-day, in fact in a small shop over which they had maintained the high reputation of ploy them. The same can be said foundry and two large machine the house for quality of material and there were no science courses to em- no control: To-day a commodious of the microtome, the projection shops, one for the manufacture of

lantern, and many other appliances the heavier machines and one for Everything pertaining to the which are now used in large quanti-lighter machines, occupying space of necessary equipment of the horse in ties. Photography was in its in-80,000 square feet and giving em- the line of harness and furnishing fancy, and the amateur picture mak-ployment to over 350 skilled me-goods is manufactured and Mr. ing outfits which are so common a chanics, constitute the mill for grind-Gibbs' aim to place upon the market only the highest class goods has met feature of to-day were undreamed of ing out the Hagen product. It is needless to say photographic Capable management, the practical with the response of a steadily inlenses or shutters were not made in application of progressive ideas, the creasing and satisfied patronage. this country at this time except per-strictest integrity in all their busi-Mr. Gibbs makes a specialty of hand haps in an experimental way. The ness dealings have been the factors harness and attends also to repairmanufacture of field glasses in which have contributed to their sig-ing. The business is retail in character, selling direct to individual America is of so recent/a date that it nal success.

hardly needs mention.

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Mah

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