

THE BEE'S LIGHTNING PRESS

The Rotary Web Perfecting Press Upon Which the Paper is Now Printed.

A MARVEL OF MECHANISM.

Capable of Turning out Fifteen Thousand Eight-Page Papers in an Hour.

A NEW DRESS THROUGHOUT.

With Stereotyping Machinery, and all Accessories of a Metropolitan Office.

WITHOUT A PEER IN THE STATE.

Improvements Costing \$25,000 Necessitated by the Growing Circulation of the Bee.

A Metropolitan Paper.

This issue of the OMAHA BEE appears in an entirely new dress, printed from stereotype forms and upon a new web perfecting press, having a capacity of turning out fifteen thousand complete copies of an eight-page paper every hour.

This change had become a necessity in view of the rapidly growing circulation of the paper, which had reached about 9,000 daily circulation, and over 25,000 weekly, when this improvement was decided upon last spring. Since that time its subscription list has steadily increased. The exact figures of past and present circulation, exhibiting the steady growth of the paper will be found elsewhere in this article, and will no doubt prove interesting to our patrons and the public generally.

The position which the BEE occupies to-day in the ranks of American journalism should be as much

A SOURCE OF PRIDE

to the citizens of Omaha as it is to its founder and publishers. On the 1st day of January, of the present year, according to the directors, there were 1,183 daily and 10,183 weekly papers published in the United States. Out of the 1,183 dailies there were only 88 papers in the English language which had a circulation of 10,000 and upwards. Of these New England states only Boston, Providence and Springfield have papers with larger circulations than that of the BEE.

In the southern states only Louisville, New Orleans and St. Louis have papers that outrank the BEE. Indiana and Wisconsin, with such metropolitan cities as Indianapolis have no papers that circulate as extensively as this journal.

In the whole northwest only the St. Paul Pioneer Press exceeds the BEE. Kansas has no city of over 25,000 population, and hence it has no papers of the first magnitude. The leading paper in the capital of Iowa does not claim over 7,500 daily. In the entire region between the Missouri river to the Pacific coast the BEE has outstripped every competitor in the race, excepting the San Francisco papers. It not only ranks with the largest dailies of this country, among the eighty-eight papers in the largest cities that claim over 10,000 circulation daily, only fifty-seven publish weeklies, thirty-five of them being one and two cent afternoon sheets. The BEE publishes great dailies, that publish weeklies, only twenty-three circulate upward of 25,000 copies of their weekly editions, so that the BEE takes rank as the fourth or fifth great daily paper as to its weekly circulation, and in aggregating its daily and weekly circulations it holds about the thirty-ninth place among American newspapers.

A paper of this standing, in a city of 62,000 population, is something exceptional. But one other city in America of equal population can boast of a paper so liberally patronized and extensively read as the BEE.

Historical.

The history of the BEE has been full of stirring events and exciting incidents. It is not the rest of the world, but the good luck, but the outcome of fourteen years of hard labor and untiring exertions, in the face of adverse circumstances, formidable opposition, and obstacles, which at times seemed almost insurmountable.

The BEE was established in 1871, making its appearance in the journalistic field on June 10th, of that year. E. Rosewater, the present editor and president of the BEE publishing company, was the founder of the paper. At first it was a little two-page 12x18 sheet, five columns to the page, and was distributed gratuitously until July 3d, 1871, when it was enlarged to a four-page paper with six pages diminished in size. On the 27th of the same month the pages were enlarged to the original dimensions. By this time the BEE had ceased to be a free distribution paper, a subscription price of 50 cents per month having been fixed. In the month of August the paper was enlarged by the addition of one column to each page, and the first issue of the weekly occurred on September 1st.

On May 6th, 1872, the BEE again enlarged, this time to double the size of what it was on the preceding day. The publication office was at No. 510 (old number) East 10th street, in an adjoining building. This press, a cut of which appears on this page, was worked by an engine in the shape of a stout negro, and its capacity was between 700 and 800 impressions per hour "under a full head of steam."

On June 11th, 1872, the BEE office was destroyed by an incendiary fire, but not an issue was missed. The paper for a few days was reduced to half its size, and was issued from Redfield's job office. In the course of two weeks the establishment was located in the brick building, No. 916 Farnam street, where it has ever since remained. In its new and permanent home the BEE continued to improve with each succeeding year, but not without a constant struggle to get to the front. Outspoken on all vital issues and fearless in its denunciations of injustice, the editor and proprietor was no less vigorous in his efforts to advance the material interests of Omaha and Nebraska. From the outset he was the champion of the industrial classes and unyielding opponent of jobbery. Owing to his fearless course desperate attempts were made at times to force the BEE into an unaimed grave. A history of the terrible struggle for existence would form a chapter of intense interest. In spite of adverse circumstances and financial difficulties the BEE kept pace with the growth of Omaha and in due time passed beyond the reach of malignant rivalry.

As growth furnishes one of the most interesting chapters in the history of western journalism, in September, 1873, to keep pace with the subscription list, which even at that early period of its existence was claimed to be larger than any other daily in Nebraska, a Hoe single cylinder press was purchased, and the facilities of the paper largely increased in every respect. About this time the experiment of issuing

circulation, along the various lines of valuable. It soon proved a success, and was improved and enlarged from time to time along with the evening edition.

With the issue of March 7, 1874, the paper was enlarged in length and breadth to nine columns, and arranged in two columns throughout, and more attractive than ever before. This was the fifth enlargement during the three years of its existence.

On January 1, 1875, the BEE made its New Year's bow to the citizens of Omaha with an illustrated supplement and annual review of the trade, manufactures, etc., of the city for the year 1874. This was a departure in the field of journalism never before undertaken west of Chicago and St. Louis, and never excelled by the papers of either of those cities. Since that time the BEE has published several supplements.

ILLUSTRATED SUPPLEMENTS and reviews, which have done more to advertise Omaha abroad than any other thing ever attempted. The actual daily circulation of the BEE in the early part of 1875 was 2,520. In February 1878,

THE BEE PUBLISHING COMPANY was organized, with an authorized capital of \$100,000, but the actual stock represented in the establishment was \$40,000. This sum included the ownership clear and unincumbered of the real estate on Farnam street, also the printing press, together with the machinery, exterior and good will of the paper. By the organization of this company the mortgage indebtedness of the concern, amounting to \$18,000, was liquidated, and the BEE, which had been seriously embarrassed at different times for the lack of money to bridge over the periods of stringency which every newspaper encounters before it secures a foothold—became

A SOLID INSTITUTION.

The controlling interest remained in the hands of the associate, who is the president of the company, and who still owns the majority of stock. With this change came also other improvements, which have been made from time to time to keep pace with the demands of the public, who appreciated the unflinching enterprise that was displayed in every move of the paper. The columns, which were very narrow, were reduced to seven, and material widened, the dress renewed, the double cylinder press, with presses, with folders, took the place of slower and old fashioned presses, the morning and evening editions were each made eight pages, a Council Bluffs department was added, correspondents at various important news centers were employed, a news bureau at Lincoln, the state capital, was established, together with various other features, every step being made.

A METROPOLITAN PAPER.

For years the BEE had been kept out of the associated press, and it was compelled to take all its telegraph reports as special, for which it paid from \$300 to \$500 per month. Finally, having asserted its right to be recognized as a live newspaper bound to have the news at any cost, it was last year admitted to the associated press upon the payment of a cash bonus of \$2,000. This purchase of the franchise of course added greatly to the value of the paper. In addition to the regular associated press dispatches the BEE takes special dispatches covering all the news of the leading cities of the country, as well of Nebraska. It pays more for its special dispatches than it does for its regular press report, and

ITS TELEGRAPH TOLLS

amount to a great deal more than those of all the daily papers of Nebraska combined. Under these circumstances it is really no wonder that

THE CIRCULATION

of the DAILY BEE to-day is 9,500, while the circulation of the weekly edition is nearly 28,000. It is confidently expected at the present rate of increase that the circulation of the daily will touch 13,000 within the next twelve months, and that the weekly will run up to over 35,000. The increase in the circulation of the daily since 1870 is shown by the following statement of the month of August during the last six years.

Table showing circulation statistics from August 1880 to August 1884, including daily average circulation and total circulation for each year.

The increase in the circulation of the weekly is shown by the following statement:

Table showing weekly circulation statistics from 1880 to 1884, including average circulation and total circulation for each year.

The BEE's Lightning Press.

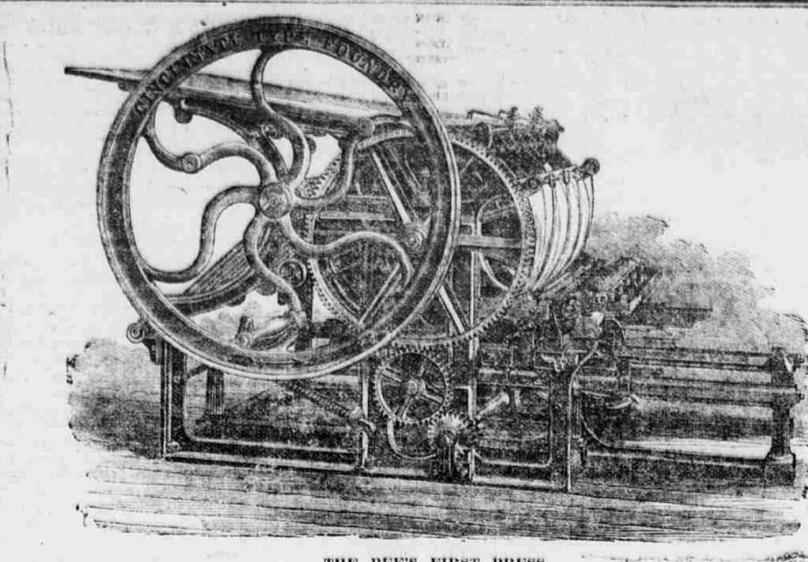
The press upon which to-day's BEE is printed is a Walter Scott web perfecting press, manufactured expressly for the BEE publishing company. It is the first and only perfecting press in Nebraska, and was invented by Charles C. Hoe, of Plainfield, N. J., who are the manufacturers of this press under the Scott and Hoe patents and by permission of R. Hoe & Co. While it is indeed

A MARVEL OF MECHANISM,

it is simple and its mechanism compact in form and substantial in construction. In these essential qualities it is the most perfect press in the world, while at the same time it is as rapid as any other rotary press in this country or Europe. It occupies a space five feet wide, seventeen feet long, and four and a half feet high. The weight is 39,000 pounds, and it rests on a solid foundation of masonry. This press prints from a continuous roll of paper, specially manufactured for it. It has the capacity of turning out 15,000 eight-page papers per hour, cut, pasted, folded and printed in a single operation. It can print 20,000 complete eight-page papers every minute, or 600 four-page papers per minute.

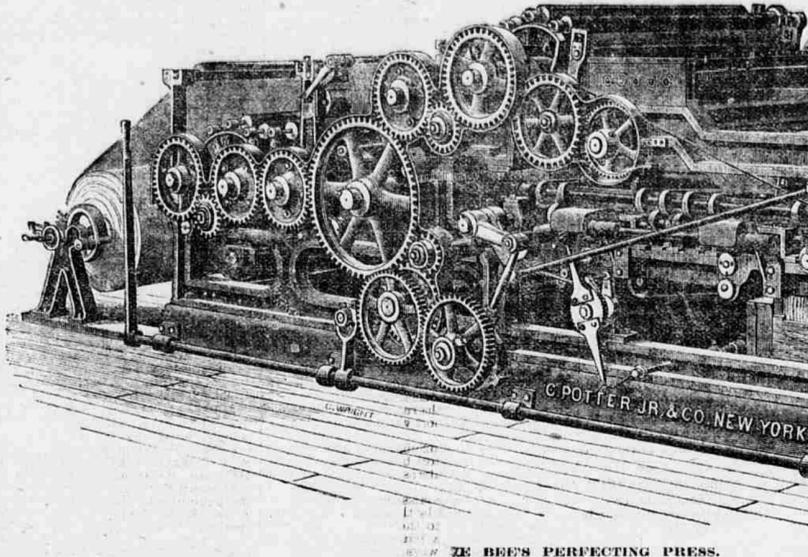
An illustration of this wonderful machine accompanied by a description of its operation, appears upon this page, together with the illustration of the first press used by the BEE, which was a Cincinnati drum cylinder, which at best could not make more than 700 or 800 impressions an hour, and could turn out only 300 or 400 complete papers an hour.

The printing press is a more ancient invention than is commonly supposed, engravings being in existence which represent it as it appeared about 1520. Block printing, as we know it to-day, was introduced in China in the sixth century, and the Chinese method was known in Italy, Spain, Sicily, and perhaps in other countries, late in the twelfth century, but it was not long after the production of movable types that the first printing press was invented.



THE BEE'S FIRST PRESS.

The press upon which the BEE was first printed in 1871 was a Cincinnati drum cylinder, as shown in the above cut. It was worked by hand, and its capacity was between 700 and 800 impressions an hour, or between 300 and 400 complete papers per hour.



THE BEE'S PERFECTING PRESS.

The above cut is a very fair representation of the Scott perfecting press. This mechanical marvel is the invention of Walter Scott, a Scotchman, who with his business associates made \$100,000 by the sale of the patent to the well known firm of R. Hoe & Co. It was made by the Potter Printing Press company, at Plainfield, N. J., and weighs about 19 tons, and cost in the neighborhood of \$18,000. It prints, cuts and folds 15,000 copies of a four-page paper, or 3,000 copies of a four-page paper, in an hour, or 30,000 copies of a four-page paper. It is wonderful in its compactness, completeness and power. The roll of paper is spindled at the left end, as shown in the cut. This continuous roll of paper is about four miles long. There are two ink fountains, one at the lower left hand corner and the other at the upper right hand corner, with two corresponding sets of ink rollers to spread the ink on the plates. The stereotype plates, to print one side of the paper, are placed on the second cylinder from the left, and are inked by the inking cylinder, the one on the extreme left. The third cylinder carries the paper against the inked plates, and one side of the paper is printed by being pressed against the plates attached to the second cylinder above and a little to the right of the big cylinder. Another cylinder to the right is an inking cylinder. The three cylinders at the bottom of the picture, and a little wheel, the latter not shown in the above picture, cut the paper and deliver it folded. The upright levers serve to start and stop the press. The very small cog wheel, under and a little to the right of the large central cylinder, is the wheel that drives the whole press.

The first important American improvement in press work to have been made by George Clymer, of Philadelphia, about 1817, consisting of the application of the power by means of a compound lever, but a dozen years later the Washington press of Samuel Bush had superseded it. The Washington press, with a man to operate the lever and a boy to apply the ink, would turn out about 3,000 papers in a day, and after a time self-inking apparatus was devised which enabled a man to do the work without the aid of a boy.

The first power press produced in America was the invention of Daniel Treadwell, of Boston. The American Tract Society brought one to New York, and used mules to work it, while the American Bible Society, which owned another of the machines, applied steam power. The Adams press, invented by Samuel Adams, of Boston, in 1830, and afterwards improved by Isaac Adams, gave about 1,600 impressions an hour.

The idea of a rotary press can be traced back to the office of the London Times in 1815, and to the American inventor, Richard M. Hoe, of New York, whose machine of 1837 was introduced in England by the Times and is universally admitted to have been the first thoroughly successful rotary press in the world. The capacity of Mr. Hoe's machine, was 10,000 to 15,000 sheets an hour, printed on one side. English inventors had endeavored to produce such a press, but vainly, and that fact augmented the importance of the work of the American inventor. This achievement was the foundation on which the house of Hoe was established. The following table shows the advancement made in bringing the printing press to perfection:

Table showing the advancement in printing press technology from 1779 to 1872, listing names of presses and their capacities.

In the above table the Scott press is credited with 30,000 impressions an hour on two sides. This is upon a four page paper. In printing an eight page paper 15,000 copies an hour are turned out.

PREPARED FOR MECHANISMS.

The BEE for the last two or three years has been using two of Hoe's double-cylinder presses, with Dexter's automatic

new machine and cost about \$7,000, will be retained in the press-room of the BEE to cover any emergency that might arise by accident or otherwise. The other double-cylinder press has been sold to the Dubuque Herald and Telegraph.

The Hoe press retained by the BEE is, next to our new rotary, the fastest machine in Omaha. The other newspaper establishments in Omaha have very slow presses, not capable of making over 1,500 to 1,800 impressions an hour, or turning out 750 to 900 complete papers per hour.

Our rotary perfecting press does in from three to five minutes the work that the presses of the ordinary newspaper offices require an hour to do.

SOME INTERESTING FACTS.

The London Times, whose 100th birthday was celebrated by the third John Walter on January 1, 1885, is printed on the Walter press, as are a few dailies in this country, but the capacity of that machine is only 11,000 perfected sheets an hour. The Bullock press, invented by William Bullock, of Philadelphia, is used in the office of some very important journals, and its capacity is 8,000 to 11,000 copies an hour.

A vivid idea of the improvements in printing may be derived from an announcement of the New York Sun, forty-nine years ago, of its purchase, at an expense of several hundred dollars, of a steam engine and apparatus to print considerably more than 2,000 copies, on both sides, in less than eight hours. "On New Year's day, 1836, the Sun said: 'No establishment in this country has such facilities, and no daily paper in the world enjoys so large a circulation.'"

As a factor in the production of the modern daily the development of the paper industry should be mentioned in connection with the development of the printing press for until nearly the end of the fourteenth century paper was not a staple of commerce. The total capacity of paper mills in actual operation in the United States in 1861 was 6,456,200 pounds daily, and in 1884 it had increased to 20,000,000 pounds daily, or nearly twenty times as much.

The paper, before it is run through the press, must be dampened, otherwise it will not take as good an impression. The wetting is done by a simple machine. An iron axle is run through the core of the roll of paper, and the roll is suspended in bearings so as to revolve freely at one end of the dampening machine, and the end of the web is attached to a core and axle, running in bearings, and lying in contact with a driving cylinder at the other end. The cylinder is set in motion by steam power, and the roll is unwound from its core and revolved upon the other, and in its passage it moves through a spray of water from two jets above it. This spray imparts to the paper the required moisture. The roll then has a few hours to absorb the moisture thoroughly.

The paper, before it is put in its proper place at one end of the press, through which it is run, at lightning speed, coming out, as described elsewhere, in complete copies of the eight-page BEE, cut, pasted, folded and counted.

Stereotyping.

While there has been little change in the manufacture of type, there has been much in its use, and the process of stereotyping was invented about a century and a half ago, the date of the introduction of the process in the United States being 1818. During the next year the first book printed in this country from stereotype plates, a New Testament, was published, and since then the use of plates has become very common.

The type for use again in less than half an hour. Without stereotyping the type is locked on the press, and cannot be used by the compositors until the editor is worked off.

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The Bee's New Dress.

The BEE appears to-day in an entirely new outfit of type, which is generally called the dress of the paper. Four classes of type are used—brevier, minion, and nonpareil for the body of the paper, and the advertising type. The dress is standard type throughout from the foundry of Barnhart Bros. & Spindler, Chicago. This foundry makes the type for nearly all the leading papers in the country using the stereotyping process. Type for stereotyping purposes must be made with regard to expansion and contraction caused by the process.

In this connection it may be proper to state that the BEE in donning its new dress, has made quite an enlargement, but in such a manner as not to likely to be noticed by the ordinary observer. While the columns are the same in number, they have grown wider, with the exception of making the standard width of 132 ems, the same as the Chicago Tribune and other metropolitan papers. This widening of the 36 columns is equal to an addition of over three columns. The substitution of a smaller type for a larger, however for bourgeois also makes room for more reading matter.

EVERYTHING NEW.

The change of dress and press, together with the introduction of the stereotyping process, has compelled us to dispense with nearly our entire old outfit. The old type, the stone, column rules, chase, and everything in the news-room, with the exception of some of the racks and cases, have been laid aside. The only thing retained

Employment is given by the BEE publishing company to a hundred persons. The BEE employs twenty-four clerks in Omaha and nine in Council Bluffs. The BEE has a branch office in Council Bluffs, and a carrier delivery of the paper is made to every household in that city for the past four years. Its circulation in that city is equal to any other paper.

A branch office has also been established at Lincoln, and another at St. Paul, Minn., which is equal to any other paper.

A branch office has also been established for THE BEE in the city of New York, two years—Room 55, Tribune building—of which A. F. Richardson is the manager.

THIEF-CATCHING BY MAP.

How Stealers of Money Letters are Traced Out and Captured.

Washington correspondence New York Sun. Chief Inspector Sharpe, the head of the department of the postmaster's department, resigned his office several weeks ago to engage in private business. His resignation was accepted to take effect on September 1. As a department clerk he had been a very successful man, and has hunted many of them out of the service, even when they were sheltered by strong political influence. Some years ago, for instance, a Vermont inspector was discharged for gross negligence and was hunted many of them out of the service, even when they were sheltered by strong political influence. Some years ago, for instance, a Vermont inspector was discharged for gross negligence and was hunted many of them out of the service, even when they were sheltered by strong political influence.

One of the most important duties of the chief inspector is to detect railway postal clerks who steal letters containing money. To accomplish this Colonel Sharpe follows a system of postal inspection, which he explained the other day to the writer. "To catch these thieves," he said, "I had constructed a large railroad map of the United States, which hangs in my office, with a large man mailing a letter in Boston for Kansas City containing \$50—a very bad practice, but people will do it. The letter never reaches its destination, and pretty soon we get a report of a lost letter. Now, if the supposed one were an isolated one we probably could do nothing. The letter, in going from Boston to Kansas City, would pass through thirty or forty hands, and it would be useless to try to fix the blame. But the Boston man's case is not isolated. Every day we get from one to fifty similar complaints from all over the country, and this fact, as you will see, enables us to locate the mischief. First, we ascertain exactly when and where the missing letter was mailed and its address. Then we are ready for the map's spoke of a wheel, and a man is sent to that place to catch the thief. I begin to stick pins into my map. I know just the route which a letter would take to go from Boston to Kansas City, and I stick pins along to sketch out the course. Then I take out a large map, and perhaps this is a man who lost money transmitting it from Mobile to Chicago. Very well, I trace out the line such a letter would take. The three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, twenty-one, twenty-two, twenty-three, twenty-four, twenty-five, twenty-six, twenty-seven, twenty-eight, twenty-nine, thirty, thirty-one, thirty-two, thirty-three, thirty-four, thirty-five, thirty-six, thirty-seven, thirty-eight, thirty-nine, forty, forty-one, forty-two, forty-three, forty-four, forty-five, forty-six, forty-seven, forty-eight, forty-nine, fifty, fifty-one, fifty-two, fifty-three, fifty-four, fifty-five, fifty-six, fifty-seven, fifty-eight, fifty-nine, sixty, sixty-one, sixty-two, sixty-three, sixty-four, sixty-five, sixty-six, sixty-seven, sixty-eight, sixty-nine, seventy, seventy-one, seventy-two, seventy-three, seventy-four, seventy-five, seventy-six, seventy-seven, seventy-eight, seventy-nine, eighty, eighty-one, eighty-two, eighty-three, eighty-four, eighty-five, eighty-six, eighty-seven, eighty-eight, eighty-nine, ninety, 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