

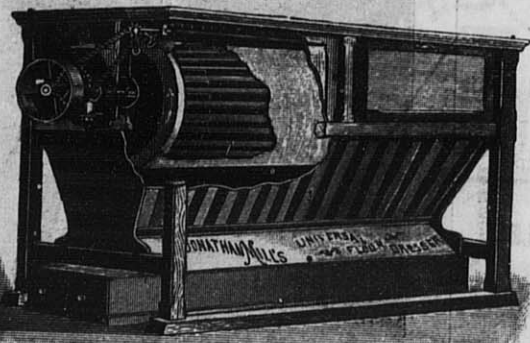
The United States Miller



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JONATHAN MILLS' UNIVERSAL FLOUR DRESSER



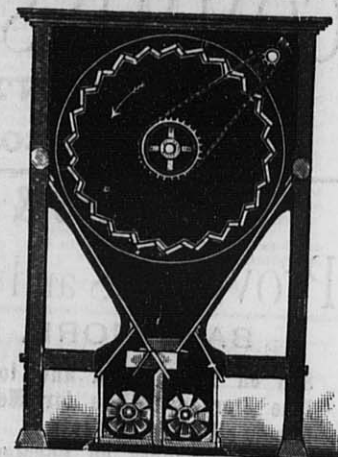
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Finely Designed and Mechanically Constructed.
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Occupies Small Space, and has Immense Capacity

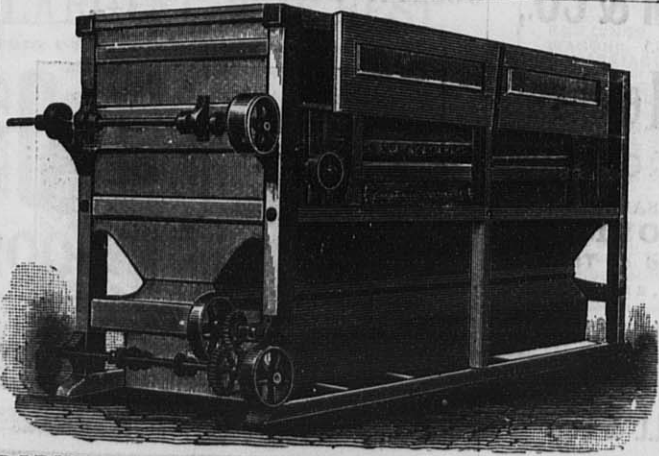
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Contains 429 pages, many cuts, and diagrams for a 100-barrel mill, 70-barrel mill, a 50-barrel mill, and a 500-barrel mill. Full of interesting and valuable matter. Publisher's price \$3.00. Will be furnished with the United States Miller for \$3.50, postage prepaid. Send in your orders at once to

E. HARRISON CAWKER,

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**THE KNICKERBOCKER CO.,
 JACKSON, MICHIGAN.**

GENTLEMEN:

I have in use in this Mill about one hundred CYCLONE DUST COLLECTORS, and after my experience with them, I am able to say that they are doing better work on the Purifiers than any Dust Collector I have ever tried. They give me no trouble and are a saving in repairs and labor, as they require no attention and they enable me to keep my Middlings in a better and more uniform condition. At my request, the firm have ordered more of them, as I wish to have a full line.

CHAS. G. HOYT.

OFFICE CHAS. A. PILLSBURY & CO. }
 Minneapolis, Minn., Jan. 28, 1887. }

**THE KNICKERBOCKER CO.,
 JACKSON, MICHIGAN.**

GENTLEMEN:

We sent you an order a few days since for forty of your CYCLONE DUST COLLECTORS. Please forward them at once. The sooner we have them the better.

ADD TO YOUR ORDER 60 MORE, MAKING 200 IN ALL.

We are in a great hurry for the forty. The others we will write you about in a few days.

Yours Very Truly,

CHAS. A. PILLSBURY & CO.



UNITED STATES MILLER.

E. HARRISON CAWKER, EDITOR.

PUBLISHED MONTHLY.

OFFICE, No. 124 GRAND AVENUE, MILWAUKEE.

SUBSCRIPTION PRICE—PER YEAR, IN ADVANCE.

To American subscribers, postage prepaid..... \$1.00
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Bills for advertising will be sent monthly, unless otherwise agreed upon.

For estimates for advertising, address the UNITED STATES MILLER.

[Entered at the Post Office at Milwaukee, Wis., as mail matter of the second-class.]

MILWAUKEE, APRIL, 1887.

We respectfully request our readers when they write to persons or firms advertising in this paper, to mention that their advertisement was seen in the UNITED STATES MILLER. You will thereby oblige not only this paper, but the advertisers.

MILWAUKEE AMUSEMENTS.

ACADEMY OF MUSIC—Performances every evening, Wednesday, Saturday and Sunday matinees.

GRAND OPERA HOUSE.—Performances every evening, and Wednesday, Saturday and Sunday matinees.

DIME MUSEUM—Performances every hour from 1 P. M. to 10 P. M. every day.

PALACE THEATRE—Every evening, Wednesday, Saturday and Sunday Matinees.

STABT THEATRE—(German)—Wednesday, Friday and Sunday evenings.

BRADSTREETS' estimates that there are more than 400,000 more employes at work now than in 1885.

MR. FRED. C. HEWEN is duly authorized by us to make contracts for advertising in the UNITED STATES MILLER.

MILLERS desiring to secure the latest and best practical book on milling should send to us for a copy of *Gibson's Gradual Reduction*. Price \$3.00, or with the UNITED STATES MILLER \$3.50.

A CALL has been issued for a meeting of the Wisconsin Millers' Association to meet at the Plankinton House, Milwaukee, at 2 o'clock P. M., April 19. All Wisconsin millers are earnestly requested to be present as business of importance is to be transacted.

We have received some very valuable pamphlets from Mr. E. P. Bacon of this city, on the transportation question in general and the inter-state commerce bill in particular, especially in relation to the grain trade. If we had space this month we should take great pleasure in making some extracts therefrom.

EVERY large mill should have its own machines for grinding and corrugating its rolls. They are as necessary in mills now as mill-picks were in the good old days. Millers can find a rare opportunity to secure a machine for this purpose by addressing The Filer & Stowell Co., Milwaukee, Wis.

JONATHAN MILLS, perhaps the greatest inventor of milling machinery in this country, made us a call April 6. He has been visiting Minneapolis and stopped in Milwaukee, his old home for a day, on his return to Cleveland,

O., his present home. He is looking well and seems as full of life as in years gone by. We are glad to know that the world is using him well.

JOHN D. NOLAN.

Mr. John D. Nolan died suddenly of apoplexy, Friday, March 11, at his home in Brooklyn, N. Y. Mr. Nolan had lately engaged in business as a milling engineer, having severed his connection with the Millers' Journal Co. in January last. He was a 32d degree Mason and a member of the New York Press Club, and his funeral was under the control of that Club and of the Masonic Lodge of which he was a member. May he rest in peace.

If the management of the Millers' National Association desire a full attendance of millers at their June meeting, they should not persist in holding their meeting in New York City.

If they do, there will not be a sufficient number to make a corporal's guard in attendance.

We will send the United States Miller, The American Miller, and The Northwestern Miller, (weekly), and The Milling World, (weekly), for one year, to any address in the United States or Canada for \$4.00, or to any Foreign Country for £1. 3s.

MILWAUKEE ITEMS.

MESSRS. C. J. KERSHAW & Co. recently contracted to ship 75,000 bushels of wheat by rail to New York.

ALBERT BRUSS, an employee in the Phoenix Mills, recently had his leg hurt severely by the falling on it of a sack of flour.

EDWARD P. ALLIS & Co. commenced, April 5, to lay the foundation for a large building to occupy the vacant space between their blacksmith and carpenter shops on Clinton street to be used by them as their general offices, shipping and drawing rooms. The structure will be conveniently arranged with offices for their different departments. The new foundry which is being built to replace the old one recently burned down will be one of the largest in the country and is fast approaching completion. The firm expect to get things in shape to commence casting in about a month from now.

EDWARD CRONIN, a laborer on the new foundry building at the E. P. Allis works, fell through a skylight on the roof April 6, and was almost instantly killed. It seems that Cronin and another workman were carrying a plank on the roof, Cronin following his companion, who held the other end of the plank. The unfortunate man did not see the opening in the roof when he reached it, and fell feet first. In going down Cronin struck across a beam which reversed his position. He struck upon his head and shoulders, fracturing his skull at the base of the brain. The distance of the fall was 34 feet. A physician was called, but the man died just as he arrived. Cronin boarded at 137 Michigan street, and had been at work on the foundry building only two days. From the statements of the other men employed in the building it appears that the accident was due to Cronin's failure to see the opening in the roof, and that no one else was to blame in the matter.

THE Kieckhefer Elevator Company, Milwaukee, are enjoying a very brisk trade at this time, and are placing for the Philip Best Brewing Company four steam hoisting engines; one steam elevator for the Berlin Coffin Company, Milwaukee; two for a manufacturing company in Plymouth; one for Torchiani & Kremer; one for Blatz bottling department; one for Campbell's steam laundry; one for Layton's packinghouse; one for Meyer's steam dye-works; John Dahlmann, hydraulic elevator; and Albert Trostel, steam and hydraulic elevators.

THE Minerva furnace, of Milwaukee, which was closed by the panic of 1873, reopened in 1881, and operated for three years, is to be started up again about the 1st of May next. Chas. Himrod & Co., of Chicago, will have the management of the property. The furnace will be run on Bessemer pig and No. 1 foundry iron.

Two boilers in Wolf & Davison's shipyard exploded at 5 o'clock in the morning, April 9. The damage is estimated at from \$5,000 to \$10,000.

We know it is none of our business to interfere with the affairs of that limited private organization which sails under the august name of THE MILLERS' NATIONAL ASSOCIATION, but as long as it pretends to be a NATIONAL affair, we claim the right to make a suggestion through the columns of our own paper and it is this: We believe it would give more general satisfaction if the Secretary and Assistant Secretary were actual millers. The Secretary we find no fault with, because he has long been actively engaged in the milling business, and his sympathies are entirely with it, but the Assistant Secretary (Mr. C. M. Palmer) never has been a miller, but is a *milling journalist*. Owing to his position, he is admitted to all the secret meetings of the sub-executive committee, and is enabled to obtain information denied to the other members of the milling press. We do not think this is right. We have no antipathy to Mr. Palmer, whom we are proud to call our friend, and whom we know to be a gentleman in every sense of the word, but we believe the association made a mistake in appointing *any* milling journalist, assistant secretary, and we think Mr. Palmer has made a mistake in accepting the position. We have no doubts of Mr. Palmer's honesty, but any journalist occupying that position would lay himself open to the suspicion of suppressing or delaying information to other papers until it had first appeared in his own.

It matters little what milling paper is declared the "Official Organ" and on that score we certainly have no objection to the *Northwestern Miller*, if it be considered necessary to have any special "official organ," but this can hardly be so, for all the milling papers have always made it a point to publish all available news concerning Association matters.

We believe by proper management that thousands would gladly become members of the Association, and its usefulness would then be greatly increased, but now its membership consists of only a very few hundred members, and it seems almost a burlesque to call it a NATIONAL Association. If the Association will treat the milling press with absolute fairness, we know that the press will reciprocate and "boom" the Association and help to make it in numbers what it should be.

[We think every old soldier in this land will appreciate this poem.—EDITOR.]

THE SOLDIER TRAMP.

SCENE—A CITY POLICE COURT.

"Yer honor, I pleads guilty; I'm a bummer;
I don't deny the cop here found me drunk;
I don't deny that through the whole, long summer
The sun-warmed earth has been my only bunk.
I haint been able fur to earn a livin';
A man with one leg planted in the tomb
Can 't git a job—an' I 've a strong misgivin'
'Bout bein' cooped up in a Soldiers' Home.

"'Whar did I lose my leg?' At Spottsylvania—
Perhaps you've read about that bloody fight—
But then I guess the story wont restrain you
From doin' what the law sets down as right.
I'm not a vag through choice, but through misfortune
An' as fur drink—well, all men have their faults;
An', judge, I guess I 've had my lawful portion
O' rough experience in prison vaults.

"I served as private in the Tenth New Jersey,
An' all the boys 'll say I done what 's right;
Thar aint a man kin say that Abram Bursery
War ever found a-shirkin' in a fight.
Right in the hell-born, frightful roar o' battle,
Whar shot an' shell shrieked thro' the darksome
wood,
Amid the blindin' smoke an' musket's rattle,
You 'd always find me doin' the best I could.

"We had a brave ol' feller for a colonel—
We called him Sweetey, but his name was Sweet—
Why, Judge; I swear it, by the Great Eternal!
That brave ol' cuss 'd rather fight than eat.
An' you could allus bet your bottom dollar
In battle, Sweetey 'd never hunt a tree,
He 'd allus dash into the front an' holler:
'Brace up, my gallant boys, an' foller me!'

"Well, jest afore the Spottsylvania battle,
Ol' Sweetey cum to me and says, says he:
'I tell you, Abe, 't aint many things 'll rattle
A tough, old, weather-beaten cuss like me;
But in my very soul I 've got a feelin'
That I 'm agoin' to get a dose to-day,
An' 't aint no use fur me to be concealin'
The skittish thoughts that in my bosom play.

"'Fur many years you 've been my neighbor, Bursery,
An' I hev allus found you squar an' true—
Back in our little town in old New Jersey
No one has got a better name than you.
An' now I want yer promise, squar'ly given,
That if our cause to-day demands my life,
An' you yourself are left among the livin',
You 'll take me back an' lay me by my wife.'

"Well, Judge, that day, amidst the most infernal
An' desp'rate bloody fight I ever seed,
'Way up in front I saw the daring colonel
Throw up his hands and tumble off his steed.
In half a minute I was bendin' o'er him,
An' seein' that he was n't killed outright,
I loaded him upon my back an' bore him
Some little distance back out o' the fight.

"The blood from out a ghastly wound was flowin',
An' so I snatched the shirt from off my back,
For I could see the brave ol' cuss war goin'
To die, unless I held that red tide back.
An' purty soon I seed he was revivin',
An' heard him whisper: 'Abe, you've saved my life,
Your ol' wool shirt, along with your connivin',
Has kept me from that grave beside my wife.'

"Well, Judge, while I stood thar beside him, schemin'
On how to get him in a doctor's care,
A ten-pound shell, toward us come a-screamin'
Just like a ravin' demon in the air.
An' w'en it passed, I found myself a-lyin'
Across ol' Sweetey's body, a.' I see
That 'tarnal shell, that by us went a-flyin',
Had tuk my leg along fur company.

"Well, Judge, that's all; 'cept when the war was over,
I found myself a cripple, an' s'ince then
I've been a sort o' shiftless, worthless rover,
But jest as honest as the most o' men.
I ne'er stole a dime from livin' mortal,
Nor never harmed a woman, child or man—
I 've simply been a bum, and hope the court 'll
Be jest as easy on me as it can."

Then spake the judge: "Such helpless, worthless
creatures
Should never be allowed to bum and beg;
Your case, 't is true, has some redeeming features,
For in your country's cause you lost a leg.
And yet I feel the world needs an example
To check the tendency of men to roam;
The sentence is, That all your life—your camp 'll
Be in the best room in my humble home."

The soldier stared! Dumb! Silent as a statue!
Then, in a voice of trembling pathos, said:
"Judge, turn your head, and give me one look at you—
That voice is like an echo from the dead."
Then forward limped he, grimy hand extended,
While tears adown his sun-browned cheeks did roll,
And said, with slang and pathos strangely blended:
"Why, Colonel Sweetey; durn your brave ol' soul."
—Don Santiago Carino.

THE LATE MR. OEXLE.—There has just passed away, Mr. Oscar Oexle, of Augsburg, Bavaria, who, as a milling engineer, enjoyed but a few years since a world-wide fame, and who unquestionably rendered services to the cause of modern milling which can scarcely be exaggerated. This is not the place for a detailed account of his life and works, but we cannot let this occasion pass without supplementing our biographical memoir with a few general observations. There can be no doubt that the late Mr. Oexle was a man who united a very rare combination of mental gifts and moral qualities, and that, over and above all, there ran through his composition what the world has agreed to call by the undefined, yet well understood word, "genius." He came prominently before the world just when the art of milling was passing through one of those transitional epochs which come sooner or later in the history of all arts and sciences, and it may emphatically be said that he rose to the occasion. Probably few milling engineers ever rendered more service than he to the cause of roller milling. His first appearance in this country dates, if we mistake not, from the year 1868, when he was called to give his services to the North Shore Milling Company, of Liverpool. In the mill of that firm he erected a stone plant on the Hungarian model, which is said to have treated Hungarian wheat with results not inferior to those achieved in the most renowned mills of Budapest. Two years later he fitted into the Phoenix Mill of Messrs. J. Davidson and Sons, of Newcastle-on-Tyne, steel rollers, consisting of smooth rollers for working on middlings, and of fluted rolls for the disintegration of the caked products yielded by the former, and his connection, too, with the reconstruction of the Tradeston Mills, Glasgow, is well-known. Again a few years, and he erected, while on a visit to the United States, a model roller mill for the late Governor Washburn, at Minneapolis, which proved successful, and was doubtless not without its influence on the introduction of roller milling into that great milling centre. It would seem marvellous, were it not for the well-known fact that genius has constantly triumphed over seemingly insuperable obstacles, that the above installation at Minneapolis, along with a great deal of Oexle's best work, was done after he had lost his sight. This affliction, which to an ordinary man would have meant the abandonment at least of his professional career, seemed to have no other effect on Oexle than the stimulation, if possible, of mental and moral energies. He was incessantly traveling through Europe, the British Isles and the United States, putting in a milling plant here and there, and introducing everywhere the

Wegmann porcelain roller mills, for which he had been appointed general agent. This phase of his life had a duration of about five years, and then it was ordained that his brilliant career should be cut short by a mental affliction from which he never recovered. That misfortune befel him in the year 1881, and since then the milling world has been deprived of his keen insight and sure judgment; but he had worked well and faithfully, while he had yet the opportunity, and he has left a permanent mark on the history of the industry with which he was associated.
—The Miller, London.

A MILLING QUESTION.

It is reported that a movement is on foot in the United Kingdom to raise a large fund for the purpose of grinding wheat into flour in India on an extensive scale. The scheme is probably undertaken in recognition of the fact that flour from the United States is offered in British markets at prices with which wheat cannot compete on equal terms. The grinding of the grain previous to shipping it or the product effects a large saving of freight, as it not only dispenses with transportation of the offal, but the flour in bags is a much more desirable article to stow in cars and ocean vessels than is the grain in bulk. For this reason some carriers will handle the product on cheaper terms than the same weight of raw material. But for the fact that the offal commands a relatively much higher price in the British Isles than with us, the English miller would stand no chance of making a profit by purchasing foreign wheats to be ground at home. The bran and other offal are greedily bought by stock feeders there at prices nearly equal to those paid per ton for our corn, and this fact enables the British miller to work at a small profit by a careful study of the qualities of wheat offered from the different countries and by mixing them up in such a way as to produce a desirable flour at the lowest possible cost. Only one thing stands between him and bankruptcy, and that is the failure of all attempts hitherto made for compressing the bran into bales which will occupy little more room than the same weight of flour. This has been experimented with in the West by several persons during the last ten years, but they have not yet solved the problem. If they or others should ever succeed in doing so the millers of the United Kingdom may as well accept the inevitable at once.

Of course this would involve a cessation of the process of exporting wheat in the berry from this and other countries, making of the miller here and in India a much more important character than he is to-day. One of the most interesting features of the change would be the abolition of a big wheat market except at the large milling centres, which would elevate Minneapolis to a higher relative position than she occupies now, and might even furnish to St. Louis a reason for existing which she is barely able to assert in recent years. This set of circumstances is simply pointed out as among the bare possibilities of the future. At present the indications are decidedly against its ever being actualized. So far as the attempt to bale bran has progressed up to date it has met with no greater measure of success than would attend the effort to make a rope of sand. But will it always be so? *Chicago Tribune.*

MILLERS' NATIONAL ASSOCIATION.

Pursuant to an invitation issued from this office March 1, to each of the manufacturers of roller mills throughout the country, so far as known, and not identified with the Consolidated Roller Mill Co., to meet the sub-executive committee, Millers' National Association, at the Grand Pacific hotel, Chicago, March 8, for consultation, the following representatives were present: Henry Stanley, president Todds & Stanley Mill Furnishing Co., of St. Louis; Wm. Mills, of Stout, Mills & Temple, Dayton, O.; Jos. M. Schulz, vice president and manager Phoenix Iron Works Co., Minneapolis; Joseph T. Lemon and J. D. Mawhood, of Richmond City Mill Works, Richmond, Ind.; J. L. Willford, W. P. Northway, and Mr. Paul (Attorney), of Willford & Northway Mfg. Co., Minneapolis; Philo Ferrier, of Ypsilanti Machine Works, Ypsilanti, Mich.; J. Silas Leas and H. A. Barnard, of Barnard & Leas Mfg. Co., Moline, Ill.; John Wilson, president Great Western Mfg. Co., Leavenworth, Kas.; and J. J. Obenchain, representing Knowlton & Dolan, Logansport, Ind.

The sub-executive committee was represented by John Crosby, president ex-officio; C. H. Seybt, chairman; F. L. Greenleaf, member from Minnesota; J. A. Hinds, member from New York; S. H. Seamans, member from Wisconsin, and C. M. Palmer, assistant secretary.

The meeting was called to order by the president, John Crosby in the chair. Mr. Seybt, chairman, stated the object of the meeting, as embodied in the call, stating fully the position of the committee, whose sole aim and object was the protection of members from claims for infringements and royalties, and further explained it to be the policy of the association to place the responsibility upon manufacturers, where it properly belongs, of protecting purchasers of their machines from all liability for royalties and infringement. The discussion was entered into freely by all. The unanimous decision of every manufacturer present showed a commendable disposition to hold purchasers of their machines free from all claims for infringements or royalties, and to that end have agreed, individually, to make arrangements whereby our association may hope to escape litigation. Your committee also met the members of the Consolidated Roller Mill Co., who were also in session at the Palmer house, and concluded arrangements with them, which we believe will be satisfactory to you. Much of the business being necessarily of a confidential nature, and at the present time unfinished, cannot be made public in this report, but will be made known at the proper time.

Respectfully submitted,
S. H. SEAMANS, Sec'y.

To the Members of the Millers' National Association of America.

In view of the fact that the Consolidated Roller Mill Co. has brought suits for infringement of patents covering certain devices in connection with roller mills, and in further consideration of extensive litigation being threatened, your executive committee having had the leading patents of the Consolidated Roller Mill Co. under consideration, and it appearing on the face of the patents,

as they read, that numerous other roller mills, manufactured in the United States, infringe said patents owned by the Consolidated Roller Mill Co., we deem it our duty, in order to protect the members of our association against the annoyances and expense of an extensive litigation, to accept a proposition of the Consolidated Roller Mill Co., and have obtained a release for all our members from liability to such company, by reason of any past, present or future use of roller mills heretofore purchased from anyone, and in order to carry out such protection, the Consolidated Roller Mill Co. has executed and filed with the association a good and sufficient bond in the penal sum of \$100,000.

In arriving at the decision indicated by the foregoing, which is the result of much labor and the most careful consideration, your committee has no desire to prejudice suits now in the courts, or which may hereafter be brought, but have acted, as they deem, for the best interests of the Millers' National Association, and your committee have made a further agreement with the Consolidated Roller Mill Company, whereby any roller mills, hereafter purchased of them by any member of our association, are entitled to a special discount, and in no event can the price exceed a specified discount of the list price of August 2, 1886.

Now, therefore, we, the executive committee, hereby advise all members of the Millers' National Association, that having provided for the protection of its members, they will not defend any suits which may be brought, arising out of the future purchase of machines outside of our arrangements.

Done at Chicago, Ills., this 9th day of March, A. D., 1887.

JOHN CROSBY,
President of the Millers' National Association, and ex-officio member of the Executive Committee.

C. H. SEYBT,
Chairman of Executive Committee.

J. A. HINDS,
Member from New York.

S. H. SEAMANS,
Member from Wisconsin.

F. L. GREENLEAF,
Member from Minnesota.

ALEX. H. SMITH,
Member from Missouri.

GRAIN INTERESTS IN THE NORTHWEST.

Mr. C. M. Shultz, commercial editor of the *Pioneer Press*, in a letter dated April 5, says:

Although the new freight rates were supposed to go into effect April 1, that fact did not check the outward flow of wheat and flour at Minneapolis. The shipments of wheat the previous week were the largest of any single week during the year up to that time, but last week the figures exceeded those of the week before by several thousand bushels. The flour shipments were also very large, aggregating 168,000 barrels, against 153,000 the week before.

The mills have been doing the best they could with the water-power at command, but the shipments have exceeded the total production by fully 30,000 barrels. This has left the millers with very small stocks at this point; in fact, warehouses here are said to be entirely empty, but the fact remains that

the flour which has been shipped out during the past month has not been disposed of, but has merely been shifted from Minneapolis to Eastern warehouses.

The flour market is extremely dull, and values show little change from last week. Orders from abroad are like angels' visits, and the few that do come are at prices considerably below the nominal market.

The wheat market during the past week has been frightfully dull. Receipts keep up well, but the only demand has been from local millers, as shippers are waiting to learn more about the new freight rates before taking large quantities. The wheat shipped from here last week was all on orders previously received. Stocks in store at Minneapolis show considerable decrease this week, as in addition to large shipments millers have been drawing quite heavily from the store to fill up the bins in their mills. It is understood that some of the millers are making preparations to grind for only a week or two longer, when they will shut down, unless the flour market improves materially. They claim that at the present relative prices of wheat and flour there is no money in the milling business, and the small mills particularly are inclined to be very much in the dumps over the situation.

There is now nearly seven million bushels more wheat in store at Minneapolis and Duluth than there was a year ago at this time, and with harvest only five months away. If the farmers should not sell another bushel between now and next harvest, it is estimated that there is yet sufficient wheat back in country elevators to come forward to supply the mills here and still leave a surplus on September 1, almost as large as it is now—18,000,000 bushels. While this may be overdone somewhat, it would not be surprising if we start in on a new crop with fully 12,000,000 bushels in store at Minneapolis, St. Paul and Duluth.

With good weather, seeding will begin in some of the southern counties about the 20th of this month. The farmers are already at work preparing their ground, and the recent heavy, damp snow, which was general all over Minnesota and Dakota, has put the soil in excellent condition.

The railroad companies have come to the rescue of the local millers between here and Chicago in the matter of transit rates, through some hocus-pocus which is not quite clear to the general public, but nevertheless seems to be entirely satisfactory to the millers. It is understood that they will be given transit rates from interior points in Minnesota and Dakota, which will enable them to grind the wheat into flour and ship it East and still compete with the Minneapolis mills.

JUDGE PENNYBUNKER cannot stand the smell of tobacco. It invariably gives him the headache. He was on the street car, and a cowboy by his side was smoking a vile old pipe. "My friend," said Pennybunker, "your pipe makes me sick."

The cowboy took the pipe out of his mouth wiped the mouthpiece carefully on his pants, and holding it under the sufferer's nose, said: "You kin smoke, stranger, until I git off the kears. I jest know how you feel. It always makes me feel sick to see a feller smoking when I've left my pipe at home."—*Texas Siftings*.

SOUTHWEST MISSOURI MILLERS' ASSOCIATION.

Mr. C. G. Wade, Secretary of the above named Association, issues the following call to Missouri Millers:

You are earnestly requested to be present at the regular Annual Meeting of this Association, Wednesday April 13, at Carthage, Mo. Very important business will be transacted at this meeting. The committee on grade respectfully ask each member to make a test from 500 to 3,000 bushels in a test. Bring samples of wheat before cleaned and after cleaned, samples of each grade of flour made, sample of shipstuf and bran also; number of bushels wheat ground in test, with number of pounds each grade of flour, number of pounds of ship-stuff and number of pounds of bran taken from said test, that the committee on grades may act intelligently in preparing grade for syndicate, to be founded at this meeting. Find enclosed resolutions passed at last meeting. Noticing particularly fine for non-attendance. Make a special effort to be present at this meeting. Reports of several State Organizations have been received and will be read at this meeting. Bring with you all items of interest that you may collect. Make this a matter of business as well as pleasure, and with a hearty co-operation we are sure of success.

A DRIVE AT AMERICAN POLICY.

The Inter-State Commerce Bill, is to our mind, an absolute outrage on privileges which have universally been enjoyed by individuals and corporations ever since this Republic was established. We have no desire to write at length on this subject at the present time, but it is our honest conviction that this move on the part of Congress, is with a view ultimately to Government ownership of all the railroads of the country, which would add immensely to the political strength of the party in power at the time such an event should transpire, making such party to all intents and purposes almost autocratic. No doubt evils have existed in the management of railroads. Evils have also existed in the management of every other business under the sun. But the laws in existence for years if enforced have been sufficient to correct all flagrant evils. Why then pass such a sweeping bill now which will change the entire transportation system of the country. *Qui bono?*

A COMMUNICATION FROM COLUMBUS, O.

Gentlemen:—Please correct the statement made in the Northwestern Miller of March 4, in which we are represented as claiming that we had forced the Smith Co. into a withdrawal of the royalties which we have been and are paying to the Consolidated Middlings Purifier Co. Such a rumor has no basis whatever. We expect to pay this royalty so long as our interests are protected by the patents for which we pay license.

As to our "Crowing and misrepresentations" there is no foundation whatever for the statement made in reference thereto. It is true we claim to be building the best purifier made in this country; which claim we believe to be based upon facts, and we shall not curtail or restrict our right to make such statements whenever an occasion may call for an expression of our views.

Very truly yours,

THE CASE MFG. CO.

ORANGE HEWEN.

It is with pleasure that we are enabled to write a brief sketch of the life of ORANGE HEWEN, one of the ablest of New York millwrights. Mr. Hewen was born at Skinner's Eddy, Wayne Co., Pa., in the year 1819. His

father emigrated to Pennsylvania when about twelve years of age from Norwich, Conn., with one of his maternal uncles, four brothers being scattered in various directions on account of the loss at sea of the father who was a captain sailing from Boston. No family, so far as known, has ever been found in New York or Pennsylvania bearing the name of Hewen, except the descendants of the orphan boy of 12 who exchanged his home in New England for the privations of a pioneer life in Pennsylvania. Early in life the subject of this sketch displayed remarkable mechanical ability and turned his attention especially to millwrighting, and flouring mills, and the results of his planning and labor, may be found throughout Northern Pennsylvania and Southern New York. He was peculiarly fortunate in being able to fit his work to suit circumstances, and his constant efforts were to simplify constructions and use no unnecessary machinery. Among his labors may be noted the construction of the first circular sawmill in Florida, in 1864 for Bigler & Co. In 1868 he built one of the first band sawmills for sawing pine timber for Nicholas Shoemaker at New Melford, Pa. The saw used was made to order in Paris. The latest large mill in which he was interested in building, was that of Geo. Q. Moon & Co., of Binghamton, N. Y., in which city he has resided for the past 35 years. Strictly honest, of a most quiet and unassuming disposition he, like most men of fine mechanical genius has not been so fortunate as to amass any great amount of wealth, his chief desire always having been to live comfortably and never to be in debt.

WORK will commence in a few days on the mammoth flour mill to be erected at Keewatin mills, says the *Manitoba Free Press*. The site selected is immediately in the rear of the railway station, and the magnificent water power at that point will be utilized. The mill will have a capacity of 1,000 barrels per day. Adjoining the mill will be erected an elevator with a capacity of half a million bushels. The enterprise is in the hands of wealthy eastern capitalists. In addition to the elevator to be erected at Keewatin, it is the intention to build elevators and storehouses at all the principal wheat markets in Manitoba. Among the other capitalists interested in this project is the managing director of the Keewatin Lumber Co. Mr. Mather will superintend the construction of the mill and elevators, and he intends to have them completed in time to handle the crop of 1887. After the mill is completed Mr. Mather will manage the concern, and in this connection he will have Alex. Mitchell, of Montreal, associated with him. This will be the largest mill in the northwest territories, as Ogilvie's mill in Winnipeg, which at present occupies that position, has a capacity of 800 barrels a day.

A QUERY.

A correspondent writes to us as follows: Take the average country roller mill, in usual condition of machinery and steaming apparatus, good soft coal at \$6.00 per ton, engineer \$1,000 per year, capacity of mill averages 100 barrels per day; no allowance for wear and tear, oil, or interest on plant.

On the above basis, what is the average cost per bushel in converting wheat into

flour, (including usual elevating) for coal and engineer only?

Will our readers please send in their views on this subject and oblige the inquirer?

THE newly installed officers of the Milwaukee Chamber of Commerce are as follows: President, C. A. Chapin; First Vice-President, I. H. Lowry; Second Vice-President, Oscar Mohr. W. J. Langson remains Secretary as usual. President Chapin in addressing the Board, said in reference to Milling in Milwaukee:

"It is uncertain whether the milling in transit will be done away with at an early date or not. It is understood that it is temporarily suspended. A great many are of the opinion that this transit system, which has been carried on so extensively for a number of years, has been a great injury to the grain trade and the milling business of Milwaukee, and a material benefit to both of these at Minneapolis. The milling business at Milwaukee has only been fairly maintained the last year. The completion of the new Daisy mills during that time, with a daily capacity of about fifteen hundred barrels, is an important acquisition to our milling interests."

DUNLOP BROTHERS' latest grain and flour circular from Glasgow, dated March 30, says:

"No change of moment to report in trade during the past week. In the absence of demand prices have continued to favor buyers. Arrivals large of Flour, but light of Wheat, Maize, &c.

"The Quarterly returns of Glasgow Stocks issued this morning show a reduction in Flour of 26,000 sacks, and in Wheat of 32,000 quarters since 30th December last, and this in the face of the heavy import of Flour for the period in question of upwards of 435,000 sacks per 280 lbs. The weekly consumpt and export averaged 35,523 sacks and 8,745 quarters respectively, as against 36,295 sacks and 10,287 quarters during the immediately preceding term."

ITEMS FROM FOREIGN COUNTRIES.

A CONSIDERABLE amount of railway building will be done in Australia during the present year.

HARBOR improvements of the value of \$40,000,000 are contemplated at Buenos Ayres, Argentine Republic, S. A.

THE Italian Government has concluded to have all steam engines used in its navy built hereafter by Italian manufacturers, and have recently given orders for engines of 12,000, 20,000 and 25,000 horsepower, respectively.

MESSRS. CROYSDALE & SON'S flour mill at Knottingly, England, has recently been fitted up with an electric light plant consisting of one self-regulating dynamo, and 63 sixteen candle-power Edison Swan lamps.

THE British Government will doubtless grant a subsidy of \$500,000 per annum for the establishment of a fast line of steamers to run to China and Japan in connection with the Canadian Pacific R. R.

LUNDY'S mill at Morden, Man., has been leased by Gray & Morden for a term of years and put in operation.

THE *Trade Bulletin* of a late date says: The flour milling interests of Ontario are not generally understood, and consequently their importance is much under-rated. In Ontario there are about 2,000 grist and flour mills, nearly 1,000 of which have within the past few years, undergone vast improvements, necessitating an immense outlay of capital, consequent upon the change from the old

stone system of grinding to the new roller process. From inquiries we have instituted, it has been ascertained that the cost of placing a combination set of rollers in a mill, has ranged from \$4,000 to \$5,000 in quite a number of instances, but for machinery suitable for high class patents, the refitting of an ordinary sized mill has cost from \$10,000 to \$12,000. A very moderate estimate, places the total amount of capital expended in transforming the mills in Ontario from the old system to the new, at between \$6,000,000 and \$7,000,000. The adoption of the roller system was undoubtedly a much needed improvement, which has completely revolutionized the milling industry of Ontario, and will tend vastly to the furtherance of its best interests.

WE will send you a copy of "Leffel's Construction of Mill-dams, and Bookwalter's Millwright and Mechanic," and "The U. S. Miller" for one year for \$1.30. Don't miss it.

NEW ORLEANS' INCREASING EXPORT TRADE.—The *Times-Democrat* of New Orleans notes the arrival of 250,000 bushels of grain from "the upper Mississippi," which are "only the vanguard of the grain shipments down the river." There are about 1,000,000 bushels of corn at St. Louis, and 150,000 bushels of wheat at Belmont, "awaiting export" via New Orleans, which was to be shipped as fast as vessels could be secured to move it. Several grain-exporting houses have established agencies there, and look to New Orleans to become "a leading exporter of western grain."

WE will furnish the UNITED STATES MILLER for one year and Alden's Handy Atlas of the World, post-paid, to any address in the United States or Canada, for \$1.

MESSRS. GANZ & COMPANY.—The yearly report of Messrs. Ganz & Co., iron founders and mechanical engineers, of Budapest, Hungary, and Ratibor, Germany, has just been published, and shows that, all things considered, there is far severer industrial and commercial depression in Austro-Hungary than we have yet experienced at home. It is, however, evident, that those in whose hands the management of this world-renowned firm rests have proved equal to the occasion, by seeking and finding abroad that room for the employment of their capital which circumstances denied to them at home. Thus as regards roller mills and other milling machinery, which Messrs. Ganz & Co. have made a special feature of their manufacture for years past, the report says: "Home needs appear to be covered in the near future, and at present custom for roller mills, and to a certain extent for milling machines, is only to be found at home in small or newly erected mills." On the other hand, an active export trade in this class of goods has been carried on. A branch office has been opened in Bombay, and agencies have been established all over India, with the result that some good orders have been obtained for the erection of mills in India, and others are in course of negotiation. A branch office has likewise been established in Melbourne, to still further extend the relations that had already been

created in that land. The manufacture of turbines, which had only been recently commenced by the company, shows signs of vigorous life, as orders had already been received from foreign countries, notably from Servia and Italy. The most cheering part of the report, however, is that relating to the electric lighting section of the works. The company has now for some years past cultivated this branch of mechanical engineering, and the directors were able to point with pride to the fact that the system of division used by the company, and known as the Zipernowskydéri, had been adopted by some of the first firms of electrical engineers in the world, including the Edison Company, in the United States of America, and many of the Edison companies of Europe. During the year 1886 the company had been able to carry out as many as 19 electric installations of capital importance in all parts of the world. —*The Miller* (London).

MILLING NEWS FROM SWITZERLAND.—An Austrian contemporary learns that the Swiss millers have been buying freely from importers both of Russian and Hungarian wheat. Many heavy forward sales have been effected, and although the granaries at such places as Romanshorn, Buchs, and Brunnen are full, yet their stock of wheat sells nearly as fast as it arrives. Usually Swiss millers give the preference to Russian grain, probably on account of the price, but it is said that this year even the best samples of Russian grain are so notable inferior to the standard of the harvest before, that the best mills are using little else than Hungarian wheat. On the other hand, the imports of flour from Hungary are insignificant, and there seems some possibility that this trade may receive a death-blow should the Protectionists succeed in passing a heavy import duty through the Bundesrath, or House of Deputies. It is believed, however, that the duty will not be increased beyond 50 to 75 centimes 100 kilos (220.46 lbs.), in which case the merchant mills of Hungary would still find it possible to sell their products in Switzerland.

THE GRAIN CROP INSURANCE on the Pacific coast last year was not so profitable as heretofore. The *Coast Review*, referring to this fact, which it attributes to over-insurance, says: There is but one way to prevent the overinsurance of growing grain, and that is, to place the insurance when the grain is ripening or "turning." The value may be closely approximated at that time, and the proper amount of insurance is merely a simple sum in proportion. There is little risk of overinsurance, for the grain tables in use can be employed by any man of ordinary intelligence. Under the present system grain crops are insured for 50 per cent of the estimated value, and the companies pay up to the face of the policy. This limit is essential to safe business, for the value of crops may vary widely from the most probable estimates. The 50 per cent. limit, if there is no considerable overinsurance, stimulates the utmost caution by the crop-owner and all his crop-owning neighbors, and all will turn out and persistently fight fire in a neighbor's field in order to protect themselves.

MANAGING A MULE.

You, Nebuchadnezzar, whoa, sah !
Whar is you tryin' to go, sah ?
I should think by dis time you'd know, sah ?
Is'e a holdin' ob de lines.
You better stop your prancin',
You's powful fond of dancin',
But I'll bet my years advancing'
Dat I'll cure you ob your shi. es.

Look heah, mule! Better min' out,
Fus' ting you know you'll fin' out
How quick I'll wear dis line out
On your ugly stubborn back.
You needn't try to steal up
An' lif' dat precious heel up ;
You's got to plow dis field up,
You has, sah, for a fac'.

Dar, dat's de way to do it !
He's comin' right down to it,
Jes' watch him plowin' troo it.
'Dis nigger ain't no fool.
Some folks dey would a beat him ;
Now dat would only heat h'm ;
I know jes' how to treat him :
You must reason wid a mule.

He minds me like a nigger ;
If he was only bigger
He'd fetch a mighty figger,
He would, I tell you ! Yes, sah ?
See how he keeps a clickin'
He's as gentle as a chicken,
An' nebber tinks o' kickin'—
WHOA, DAR ! NEBUCHADNEZZAR !

Is dis heah me, or not me ?
Or is de debbel got me ?
Was dat a cannon shot me ?
Hab I laid heah more'n a week ?
Dat mule do kick amazing' ;
De beast wasspil' in raisin',
By now I 'spect he's grazin'
On de odder side de creek.

CORNMEAL.

Good cornmeal is like granulated sugar in grain, and if properly made from the best white flint corn looks like it in the hand. It should be free from all chit, bran or hull, and the soft meal found in the cob end of the kernel, all of which injures its keeping and baking qualities, and the looks of the meal. By the old process of reducing corn at once upon millstones, it was impossible to make thorough separation of these from the meal. The soft chit meal has a sweet flavor, but as it detracts from the keeping qualities and appearance of the meal, and is apt to contract a strong taste, it should hence by all means be kept out, and if a sweet taste is wanted to the bread it can be supplied by sugar. Two reductions are therefore necessary to the making of first-class cornmeal. For the first reduction stones, rolls, or machines like a hominy mill can be employed, the object being to get rid of the objectionable part mentioned. The hominy mill will do the best service of anything, leaving an almost pure product for the second reduction, and requiring no separate bolting between the reductions; that is if a regular hominy mill with separator is used. Nothing excels millstones for the second reduction, although rolls might equal them. The millstones should have plenty of furrows, say two-thirds furrow surface, which would increase the capacity and make more granular meal, as compared with the old method. The flint varieties of corn are always the best for meal. In using meal made in this way, by adding one-third flour, and if wished (and as we like it) sweetened a little, a bread delicious enough for any epicure can be made. The truth is that not one miller in a hundred takes much pains to make fancy cornmeal, and but few housekeepers know how, or do make a palatable corn bread; and in this great land of corn but few know how cheap and how delicious a corn bread they might have. —*Millers' Review*.

NONSENSE.

You doubtless heard the story about the Good Templars who were marching down street bearing a banner with the appropriate inscription: "We bend the knee but not the elbow." But there was an old fellow who was holding up a tree box while he viewed the procession; his temperance charter had expired a year or two before, and he hadn't had time to renew; he was about four-thirds full. He looked at the banner and deciphered the inscription with great disgust. "Aw—yes, he said, "you bend the—hic—knee, but not the—hic—elbow. I know you do. That comes of this—hic—beastly habit of drinking out of the bung hole!"

"MAY be I haf to fail before spring," said a Pennsylvania merchant to a traveling salesman who was trying to sell him a bill of goods. "But you are worth \$40,000 and have only \$10,000 worth of stock. You'd have to pay \$4 for one if you failed."

"Great hefens, was it like dot? Vell, den, I keep right on, und you may send me some more sugar und tea und coffee. I vait until I vhas vorth \$10,000, and haf \$40,000 vorth of shtock."—*Wall Street News*.

PLANTATION PHILOSOPHY.—De man what 'peers to be in the bes' humor when he's in trouble minds me of the calacanthus, what smells de sweetes' arter it's mashed. We's got some little respect fur de drunkard ez laung ez he erpeers ter pe ershamed o' gettin' drunk, but when he gits so he aint ershamed o' his shame, we drops him, knowin' dat he is er gone case. Folks dat is allus er talkin' erbout de wolf in sheep's clothin' doan 'peer to know dat we sometimes find er sheep in wolf's clothin'. De kindes' hearted man I eber seed had er face dat would skeer er half-grown boy putty nigh to death. We's allus apt ter make er mistake consarnin' de showy pusson. Some men 'peers ter carry a light wid 'em whareber da go, and, thinkin' dat da ken 'complish 'most anything, we pins our faith ter 'em, neglectin' de dull-lookin' man; but when de hard test comes, de dull-lookin' can, nine times outen ten, grab er 'portant p'int sooner. A coal o' fire ain't ez bright ez er blaze, but it ken flash powder quicker.

"It's a great thing," exclaimed a whiskered passenger on an east-bound train—"a great thing—one of the best laws that ever passed Congress. That's what we've been fighting for out in Iowa for a long time. We want the railroads regulated, and I tell you this law is going to do it. It is one of the most popular laws that Congress ever passed. I know the people are in favor of federal regulation of railroads, and this law pleases 'em to a man. I'm the editor of the leading paper in my town, and, of course, the people talk to me a good deal. We all like the law and hope it will be enforced to the very letter."

"I think it will be," replied the conductor, to whom these remarks had been addressed; in fact I'm sure of it, for I received orders to-day from the general passenger agent to take up all editorial passes April 5, in conformity with the requirements of the law, which goes into effect that day."

"W-what's that?"

"I say we are ordered to take up all editorial whole-line passes April 5, in conformity with the requirements of the new inter-state commerce law."

"Well, all I've got to say," replied the country editor, warmly, "is that dog-gurned law is a fraud and a swindle and an outrage. That's what it is, and I believe the railroad monopolists lobbied it through so's they could cheat and rob the people of their rights in the guise of doing better by 'em. It's a flagrant assault upon the liberties of the people, and we'll snow old Cleveland under next year for ever making a railroad tool of himself and signing it. Besides I'll give my member of Congress fits in my next issue. The traitor voted for it."—*Chicago Herald*.

"WHAT a popular girl Miss Harvey is," said one young man to another, of a young lady whom he had been watching for some time as he sat on a hotel piazza. "She has a crowd of admirers around her all the time."

"Yes," said his companion, "I've been watching her too. Even the mosquitoes seem to be mashed on her."—*Somerville Journal*.

WARM WEATHER INDICATIONS.—When a young but broken-hearted widow can come out of her grief sufficiently to pay \$75 for a poodle dog, and to object to give a man \$1 for mowing her husband's grave lot, there is a strong hope that she will soon be able to tell the difference between a spray of orange blossoms and a widow's weeds.—*Full River Advance*.

GROSS INJUSTICE. Col. Blood (of Kentucky)—People do me an injustice when they accuse me of being a hard drinker.

Mrs. Blood (indignantly)—Who has accused you of being a hard drinker?"

Colonel—A good many people; but I am not a hard drinker.

Mrs. Blood—No, indeed, my dear; you are an easy drinker.—*New York Times*.

A TELEGRAPH operator in Milwaukee was one day trying to call up an office in a small town in the interior of the State, where the instrument was presided over by a woman. He was about to give up in despair when the operator in another small town a few miles distant from the first ticked out the query: "What in heaven's name do you want?"

"I want M'iss Brown of Burgeville," replied the Milwaukee man. "I have been trying to get her for the last half hour."

"That is nothing came the reply. "There is a young fellow clerking in a dry goods store there who has been trying to get her for the last three years, and he has not succeeded yet. Do not get discouraged."—*Chicago Rambler*.

A KENTUCKIAN with a large jug making a bargain with a countryman to take him four miles over the hills, asked: "How much'll you charge?"

"Oh, a couple of swigs of the stuff in that jug'll make it about square, I reckon."

After the journey had been made and the countryman had taken a swig, he said: "Stranger, I'm a peaceable man, but if you don't want to be chock full of lead to-night you'd better find another way to carry yer molasses."

THE scene is a young ladies' seminary. "Ah," said one pupil to another in triumph, "my mamma gives me a penny every morning for taking a spoonful of cod liver oil!"

"And what do you buy with the penny?" eagerly returned the second girl in a tone not devoid of envy.

"Oh," returned the former speaker, "I do not spend it at all; mamma puts it away for me every day to buy more cod liver oil with!"—*London Figaro*.

BUTCHER (to young housekeeper)—I have nothing left, mum, but a hindquarter of lamb and liver. Young Housekeeper—Very well. You may send me a hindquarter of liver.—*Life*.

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Here the same laws come into play as in the evaporation of water. The evaporation and the volatilization require more heat than that accounted for in the elevation of temperature, and which is therefore rendered latent. Hence, unless care is taken to burn these gases as they are given off, it would be better that they did not exist. For it will be readily understood, that if the fire which is due to the combustion of the solid carbons did not have to heat these gases, it would give out just that same amount of heat that would be available for steam making.

It is due to this fact that coke has been accredited with greater heating properties than bituminous coal, simply because the gases in the coal have been distilled and not burned. But when the furnaces are so designed that these gases are thoroughly burned, the heating properties of the coal will be found to be greater by just the amount of heat given out by the combustion of the gases in excess of what was required to distill them.

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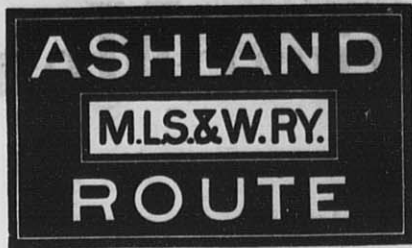
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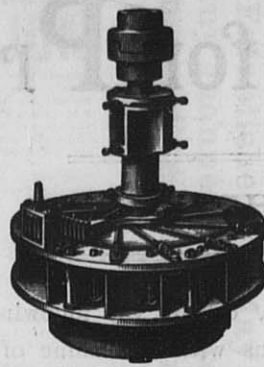
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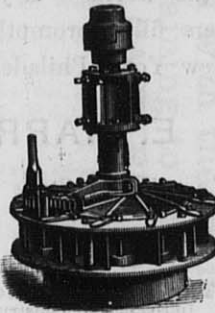
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