Gem Manufacturing Company

by Dave Thorpe

Miners' lamps stamped with the GEM name are relatively rare. Their fairly plain design, typical of lamps from the mid-1920's, has led to a somewhat less enthusiastic desire by collectors than their scarcity might suggest.

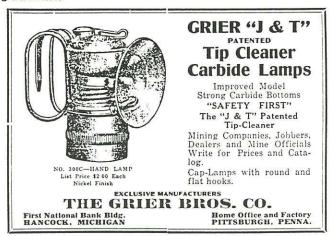


GEM cap lamp, brass, 2 1/2" reflector.

The Gem Manufacturing Co. of Pittsburgh, incorporated in 1899, was known primarily for their "steel oilers and torches of every description". They manufactured their own stamped GEM lamp in 1926, however, during the two previous years they were the sole distributors of miners lamps made by the defunct Grier Bros. Company. This included the GEE BEE cap lamp which is much sought after by collectors due to its subtly elegant and long-waisted appearance.

Gem entered the mining lamp business in 1924, announcing themselves as "successors to the Grier Bros. Co." ² Grier Bros., also of Pittsburgh, had manufactured various cap lamps from 1912 through 1923.³ Their products were known for their heavy and somewhat sloppy solder application as well as a less sturdy construction than other lamps of the era. The company did not flourish nationally to the extent that Justrite, Universal, and Shanklin did.

During 1922-23 Grier undertook several costly steps to challenge their competitors. They opened a western branch in Hancock, Michigan.⁴ This was the home of the inventors Jacobson and Turja who patented the push-button tip cleaner found on many late Grier lamps.⁵ They also began a westward advertising campaign as evidenced in the Arizona Mining Journal.⁶

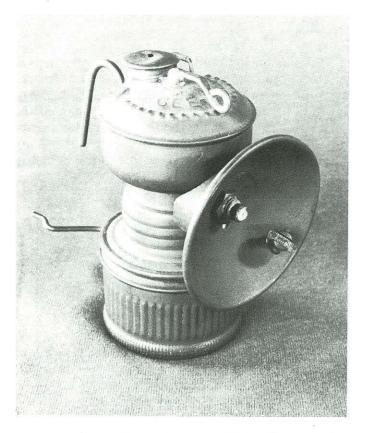




April & June 1923 ads from Arizona Mining Journal. This is the last year in which ads are found for Grier Bros. Co. (Courtesy Tony Moon).

Most costly of all perhaps was the development of the GEE BEE (phonic initials for Grier Bros.) cap lamp. It would appear that this lamp represented a serious attempt to upgrade the appearance and construction of their product. Solder seams were much more carefully done, most from the interior of the lamp. Unlike previous Griers, the hook penetrated the tank and was soldered to the inside. The once flimsy water lever

was now forged to add strength. Long vertical ribs were added to the base in keeping with other competitors of the day. The resultant lamp was, in a word, beautiful.



GEE BEE cap lamp, brass, 2 1/2" reflector. Note factory soldered plug where J & T push button would normally be.

Interestingly, neither the GEE BEE nor any lamp resembling the GEE BEE was ever advertised by Grier. Their final ads of 1923 displayed only vertical style lamps with J $\,\&\,T^{\,\,\mathbb{B}}$ tip cleaners and the Loc-on $^{\!\,\mathbb{B}}$ detachable reflectors. If any GEE BEE's were ever sold by Grier, it is not indicated by their advertising. The company failed in late 1923 before the GEE BEE could be marketed.

Grier's remaining stock was acquired by Gem Manufacturing Co. who, in 1924, began to advertise and sell Grier cap lamps. A Gem ad in the 1924 Keystone Catalog depicts vertical style Grier lamps that differed from Grier's last 1923 Keystone ad only by the more modern base. If an inventory of GEE BEE lamps were in Gem's possession at this time, they were not yet advertising them.

In 1925 however, Gem advertised what appeared to be GEE BEE lamps in both the Keystone Catalog and their own Catalogue Number Fourteen. All GEE BEE cap lamps bear the Grier name stamping on top. Since these lamps could not rightfully be called Gem lamps, the ads refer to them simply as "tip cleaner lamps". Later, in the same advertisement, mention is made of "GEM LAMPS without J & T Cleaners...of the same general construction" ... but no picture is shown. This may refer to their own GEM stamped lamp which had a shorter waist,* a Guy's Dropper style reflector brace, and narrower screw threads. It is also consistent with the fact that GEM stamped lamps are not found with the push-button tip cleaners.

The 1926 Keystone Catalog contains Gem's last advertisement for miners' lamps. There is but one lamp pictured: it is a true GEM cap lamp. No mention is made of the once touted J & T cleaner. Gem apparently did not feel these were worthwhile in the lamps they themselves manufactured.

Keystone Catalog ads showing the Opposite page: progression of lamps from Grier to GEE BEE to It appears that GEM rather than Grier sold the GEE BEE cap lamp. (Courtesy Tony Moon)

Below: 1930 Gem letterhead from a memo found inside Gem's 1925 catalog.

E.S. FOWNES PRES



D. A. McCAFFREY, SECY

J. A. FOWNES, VICEPRES & TREAS

BRANCH SALES OFFICES
NEW YORK
PHILADELPHIA

CHICAGO

SAN FRANCISCO

WASHINGTON DE

ALLEXCHARACIA (COMIS INCORPORATED 1899

MANUFACTUREPS STEEL AND BRASS BENCH OILERS ELECTRIC WELDED STEEL OILERS, TORCHES, TALLOW POTS, SUPPLY CANS, FOUNDRY CHAPLETS, FLEXIBLE SHAFTING

DIES AND SPECIAL STAMPINGS

Physian Ca. Sept. 24-1930.

> **SUMMER 1992** EUREKA!

^{*} An occasional GEM stamped lamp is found with the taller GEE BEE style waist (Errol Christman collection).

1923

THE GRIER BROTHERS COMPANY

1411-1417 Brighton Road, PITTSBURGH, PA.

Factory: PITTSBURGH, PA.

Western Branch: HANCOCK, MICH.

Manufacturers of

Grier J. & T. Carbide Lamps

The Miners' Delight

Carbide Lamps for Miners: Carbide Flasks— Tips and other repair parts; Miner's Dinner Pails, Powder Cans and other miner's equipment.

A small wire of special composition works inside of the lamp, being housed in a brass tube and attached to a push button. A slight pressure on the button on outside of lamp injects the wire into the gas orifice in the burner and forces out any dirt or other matter lodged in the burner.

J. & T. Tip Cleaner
The J. & T. Tip I cleaner with
which Grier Lamps are now equipped is a recent invention, and thoroughly covered by patents. The
cleaner is always with the lamp
is cleaned as often as necessary
without extinguishing the light.
It will save the miner both time
and money. The cost added to the
compared to the advantages to be
derived.



The diameter of the cleaning wire is slightly less than the diameter of the gas opening in the burner, so that when the wire is projected into the opening the light will not be extinguished.

price of the lamp is very little compared to the advantages to be derived.

Construction—The device is 30 simple that there is nothing to get out of order 21/4", 21/2" and 3" reflectors. Not a better made from corrosion or otherwise.





WRITE FOR CATALOG

MINING CATALOG

1924

GEM MANUFACTURING COMPANY

THE GRIER BROTHERS COMPANY

1229-1243 Goobel St. PITTSBURGH PA

Manutacturers of

Grier J. & T. Carbide Lamps

The Lamp You Have Waited For

J. & T. Tip Cleaner

J. & T. Tip Cleaner

The J. & T. Tip Cleaner with which Giret Lamps are now equiposition of the state of the

Carbide Lamps for Miners: Carbide Flacks—
By and other repair parts: Miners: Dinner Paids
switer Cans and other miners: epaphent.

8. T. Tip Cleaner

All lamps tested before leaving our factory. Lamp equipped with Grief Tocon, reflectors and brass, lava in-stated tips. All parts are easily placed. Lamps made with 21/1, 22, and 37 reflectors. Not a botter made lamp on the market

Construction—The device is so simple that there is nothing to get out of order from corrotion or otherwise. A small wire of special composition works and the other past out of order carbined between the other past notion on most of the control of







1925

SECTION NI

GEM MANUFACTURING COMPANY 1229-1243 Goebel St., PITTSBURGH, PA.

Manufacturers of

Gem Miners' Lamps Equipped with The J. & T. Tip Cleaner

The introduction of the carbide lamp into the ore mining industry was one of the greatest and soward safety with interest and the production of the carbide lamp into the ore mining industry was one of the greatest and soward safety with interest and the production of the carbide of the production of the lamp was always dogging up caused it to be held in poor esteem by many miners. (Lorent with him the lamp was useless. Even when he carried a bundle of reamers with him, these were often misplaced and caused him inconvenience, and he was as always are suited for the time, his production and, therefore, his carrings fell off, due to the inefficiency of his light.

The J & T T Deleaner—What It Is

It consists of wire, of a apecial composition, which will not break or corrode. This wire extends from a push button, located on the top of the lamp, through a brass though the text with the past complished by mean of a spring located within a sampli pocket in the top of the lamp.



For Metal Miners With Cleaner

Polished Brass
No. 420—214 in. Reflector
No. 410—212 in. Reflector
No. 400—3 in. Reflector
Polished Nickel
No. 520—214 in. Reflector
No. 510—212 in. Reflector
No. 500—3 in. Reflector



With Cleaner

Large Carbide Bottom No. 300-3 in. Reflector

The ideal lamp for In-spectors. Superintendents. Mine Foremen. Campers. Hunters and for all out-side work.



Polished Brass No. 960—211 in. Reflector No. 870—212 in. Reflector No. 980—3 in. Reflector

Polished Nicker

1926

GEM MANUFACTURING COMPANY 1229-1243 Gorbel St., PITTSBURGH, PA.

Gem Miners' Lamps, Oilers and Welded Ware

GEM Lamps

GEM (Lamos Combine all the latest improvements; it is the indirect weight lamp on the market. Being lower in height and more compact fills a need often expressed. The reflector is detachable, temp need in place by a small feation nut. The fest holder tolly protects the fest from the weight carbod. The now, is rested and sourced to the observance of the market best inside the lamp. Wire barden on make removable, not solured.

The water supply lever is a full spring and stars put, while the water feel is positive, as it cannot work loose. Brass tip Lava inserts used throughout.

All parts interchangeable, damaged parts can be replaced.

Every lamp is carefully inspected before leaving the factory, and carries our guarantee against defect in workmanship and material.



POLISHED BRASS No. 96-212" Ref. \$15.00 Doz. list No. 98-1" Ref. 16.00 Doz. list Packed I dozen in carton, weight 6 pounds afozen packed

POLISHED NICKEL No. 1/6-212" Ref. \$17.00 Doz. list No. 108-212" Ref. 18.00 Doz. list

Packed I dozin in carton, weight 6 pounds dozen packed

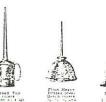
GEM Welded Steel Ware - Black Enamel Finish

The Gem Method of Electric Welding Produces a line of oilers, torches, carriers and supply cans superior to anything the trade has ever known.

The Gem method of electric welding has been created after many years of experimental work, We have found by tests that it snows 95 c of the original strength of the material.

Rubler gasket cannot cut as provision is made for ris inception into the screw cap waree no contact is made with needed of the can. The removable were hook encircles the outside of the can. The removable were hook encircles the outside of the can. The removable were hook encircles the outside of the can. The removable were hook encircles the outside of the can.











GEE BEE lamp in Grier Bros. Co. box sold by Gem. Nelson Ressler collection. (Photo by Jim Van Fleet)

How long were the GEM lamps manufactured? Probably only during 1925 through 1926. Although the **Thomas Directory of Manufacturers** show Gem manufacturing lamps in 1927,⁷ this listing may only refer to their line of steel railroad torches which was carried on into the 30's. No Keystone ads for Gem miners' lamps have been found later than 1926.

HEAVY WELDED SEAM LOCOMOTIVE TORCHES

This torch is made from heavy gauge steel and electric welded throughout. Guaranteed not to leak and will stand exceptionally hard usage.

Numbers	125-H
Capacity	l pt.
Length of nozzle	378"
Diameter of bottom, inches	612"
Diameter of cap opening	7 s"
Diameter of nozzle	
opening	538"
Height over all.	738"
Pattern weight per dozen	12 lbs
Per dozen (list)	\$9.00



Above: Gem railroad torch, not to be confused with oil wick lamp. (From 1925 Gem catalog)

Right: Nickel plated GEE BEE cap lamp, 2 1/4" reflector, with J&T tip cleaner.

Opposite page: Taken from 1925 Gem catalog. These appear to be GEE BEE cap lamps. Similar lamps appear in 1925 Keystone Catalog ads. I have an original 1925 issue GEM catalog with an enclosed letter from Vice-president James A. Fownes in which he makes reference to the catalog. The letter is dated Sept. 24, 1930 indicating that this 1925 catalog was used for at least five years. Pictured within are a line of miners' lamps...but each page showing lamps is stamped "discontinued". (See opposite page)

Although we may strongly speculate from the journal advertisements that Gem ceased selling miners' lamps after 1926, we can state with certainty from the catalog with enclosed letter that they had stopped by 1930. The Gem company itself continued in existence until 1961.⁷





MINERS' CAP LAMP

With J. & T. Tip Cleaner

POLISHED BRASS

Round or Flat Hooks

Number	960	870	980
Reflector size	21/4"	219"	3"
List price per doz.	\$16.00	\$16.50	\$17.00
NICE	EL FIN	ISH	
Number	1060	1170	1190
Reflector	21/4"	21/2"	3"
List price per doz.	\$18.00	\$18.50	\$19.00

Lamps made of the best materials, highest grade workmanship and finish.

Latest improvements combined, detachable reflectors, round hook, riveted to bottom inside water bowl.

Felt Holders of latest type, protect felt from wet carbide.

J. & T. Patent Tip Cleaner installed in last word in perfection.

Plain lamps are identical except they have no cleaner installed.

Lamps all equipped with brass tip Lava insert.

Packed one dozen in carton, weight 6 pounds per dozen packed.



SUPERINTENDENTS' LAMP POLISHED NICKEL—3" REFLECTOR

Has J. & T. Tip Cleaner

Number	300
List price per dozen	\$27.00

PLAIN LAMPS

(Without Cleaner)

POLISHED BRASS

Round or Flat Hooks.

Number	96	87	98
Reflector size	21/4	21.	3
List price per doz.	\$15.00	$\$15.\bar{5}0$	\$16.00

NICKEL FINISH

Number	106	117	119
Reflector size	21/4"	215"	3"
List price per doz.	\$17.00	\$17.50	\$18.00

Prices quoted subject to change without notice.



Perhaps the earliest GEE BEE cap lamp, brass, with 2 1/4" reflector. Note soldered on reflector and flat strip braces as on early Grier Bros. lamps.



Nickel plated GEM with 2 1/4" reflector. Note small dimple locating notch in reflector just under burner which is common to all GEE BEE reflectors and GEM 2 1/2" reflectors.



Unfired Gem lamp with box. (Nelson Ressler collection)

References

- 1. GEM Manufacturing Company Catalogue Number Fourteen, 1925, p. 1.(introduction).
- 2. Keystone Catalog, 1924, p. 517.
- 3. Thorpe, D.H., 1990 Mining Artifact Collector #7, p.3, and #9 p. 29.
- 4. The Mining Catalog (Metal and Quarry Ed.), Keystone Consolidated Publishing Co., 1922, p.482. This is the first year that the Hancock branch is advertised.
- 5. U.S. Patent # 1,397,170. J. W. Jacobson and J. E. Turja. Appl. Sept. 3, 1920. Pat. Nov 15, 1921.
- 6. Arizona Mining Journal. April, May, and June 1923. The May issue displays Grier lamps on the cover.
- 7. Clemmer, G. S. American Miners' Carbide Lamps, 1987, p.71.