

WOLF SAFETY LAMP CO. OF AMERICA, INC.



Trademark
WOLF™
REGISTERED U. S. PATENT OFFICE

MINIE SAFETY APPLIANCES COMPANY
BRADDOCK AVE. & THOMAS BLVD.
HOMELESS STATION
PITTSBURGH, PENNA.

Important - Do Not Destroy

INTRODUCTION

The Wolf Flame Safety Lamp is a bonneted, double gauze, underfed, naphtha burning lamp, magnetically locked and equipped with internal igniter. The air enters the lamp through the gauze protected opening at the bottom of the glass cylinder as well as over the top of the glass. The products of combustion pass through double gauzes and escape through a large opening at the top of the lamp between the bonnet and hood, and through numerous small slits in the surface of the bonnet. It is widely used by the mining industry for detecting methane (firedamp) and the presence of oxygen deficiency in coal mine atmospheres.

Wolf Safety Lamp Co. of America, Inc.

68-72 EMERSON PLACE
227 GRAND AVENUE

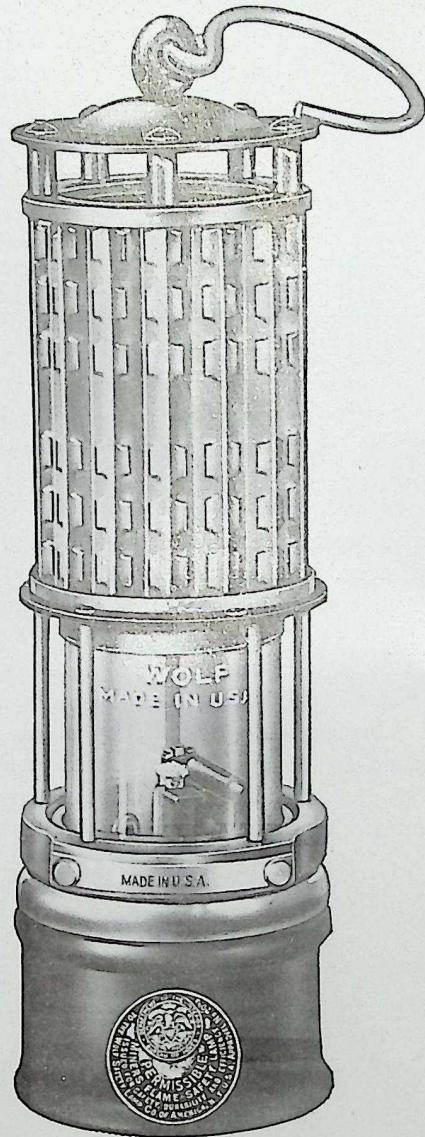
BROOKLYN, NEW YORK

Trademark
“WOLF”
Registered U. S. Patent Office

WOLF MINERS SAFETY LAMP

No. 100

(Approved by the U. S. Bureau of Mines)



PRODUCT OF

Wolf Safety Lamp Co. of America, Inc.

68-72 EMERSON PLACE
227 GRAND AVENUE

BROOKLYN, NEW YORK

INSTRUCTIONS FOR THE CARE AND MAINTENANCE OF WOLF FLAME SAFETY LAMPS.

OPENING OF LAMP

For opening Wolf Lamps provided with magnetic lock, the lock ring is pressed against the magnet so that the two projecting poles of the lock are pressed against both poles of the magnet. The upper part of the lamp is held in one hand while the font is grasped with the other. A slight turn is then made to the right so as to allow the anchor beam of the lock to free itself from the slot in the screw thread on the lamp font. Then the font is turned to the left until it is detached from the lamp top. The lamp has to be held against the magnet until this operation is completed.

FUEL

Only naphtha or high grade gasoline of good quality should be used; which should have a specific gravity of 0.70 to 0.72.

FILLING THE LAMP WITH FUEL

In filling the lamp only a sufficient amount of fuel to saturate the cotton, with which the font is packed, should be used. After the lamp has been filled it should be turned upside-down so that any excess fuel will drain out. Care should be taken to remove any fuel which may remain on the outside of the font after filling. This precaution is necessary because when the lamp becomes heated this excess fuel may evaporate and enter the testing flame; thereby tending to give false indications.

EXAMINING AND CLEANING WIRE GAUZES

The wire gauzes constitute the safety feature of the lamp and any deterioration of them, slight as it may be, is a direct source of danger. It is therefore very important that they should be examined carefully for indications of wear or any other imperfections. Even though no indication of wear is visible, the gauzes should not be used for too great a length of time, since the heat of the flame oxidizes the wires which gradually reduces the diameter of the wires. This increases the area of the mesh of the gauzes, thus permitting the entrance of a greater amount of air with a subsequent decrease in the safety feature of the lamp. The air admission ring of the lamp is also provided with two wire gauzes which require careful attention. Although these latter gauzes are not exposed to the heat of the flame they should be carefully examined frequently to determine whether they are in good condition and are properly connected to the ring. If found deteriorated in any way, they should immediately be replaced with new gauzes.

ASSEMBLING LAMP

Care should be taken to ensure the lamp has been properly assembled after filling or cleaning. Some of the errors likely to occur in assembling the lamp are:

- (a) Omission of one of the gauzes.
- (b) Failure to screw the fuel font into place so as to make a tight fit between the glass globe and gaskets.
- (c) Placing a defective gauze in the lamp.
- (d) Leaving one or both gaskets out.
- (e) Inserting a chipped or cracked glass chimney.

IGNITION

The igniter is operated by means of the swivel located on the underside of the font. The swivel is attached to the swivel bar by means of a right-handed threaded connection. To operate the igniter the swivel should be swung into a vertical position and then pushed up so as to bring the friction wheel and spark pin on a level with the top of the burner tube. The swivel should then be turned to the right

until a spark is obtained. After the igniter has been operated, it should be lowered by pulling down on the swivel; after which the swivel should be swung to a horizontal position so as to clear the knob for the wick adjustment.

The wick is adjusted by turning the wick adjustment knob which is located on the bottom of the font.

When the lamp is not in use the wick should be lowered all the way down to prevent evaporation of the fuel.

PREPARING LAMP FOR TESTING

After the lamp has been prepared for use it should be carefully examined to ensure that all parts are in good condition, that they fit properly and that no parts are missing. It is very important that the gauzes are free from dust, oil, rust, soot, or any other obstructions which will interfere with the air circulation of the lamp. Attention should also be given to the wick. It should be trimmed of excess crust to prevent clogging; so that the fuel will feed freely and produce a flame which is stable and uniform. The lamp should be lighted some time before it is taken to the place that is to be examined for the presence of gas, so that it may have an opportunity to reach its normal operating temperature.

OBSERVATION OF THE FLAME

A Safety Lamp flame will show the presence of gas before the percentage of gas reaches the lower explosive limit. The elongation of the flame of the lamp, caused by gas, is a pale blue flame (cap) that appears to ride on the lamp flame. Two different methods are employed in testing for gas with a Safety Lamp—the use of a short, almost nonluminous flame, about $1/10''$ to $1/8''$ high, and the use of a normal service flame which is about $3/4''$ high. Both of these methods are reliable and accurate. A careful observer can detect as little as 1% of gas, or at least the approximate percentage of gas present.

While making tests the lamp must be held firmly upright with the hand underneath the fuel vessel. It should be raised very slowly. In a mine, gas (methane) rises to the roof because it is much lighter than air; thus the proportion of gas in the atmosphere will usually be found to increase as the roof is approached, and when the behavior of the flame indicates that a dangerous percentage of gas is being approached the lamp should be withdrawn.

Deficiency of oxygen in mine air will be indicated by a dimming of the flame, and when the oxygen gets as low as 17% the flame will be extinguished. The reduction of oxygen in mine air is due to the presence of black damp and often some of the oxygen in the air being absorbed by the coal.

PRECAUTIONS

Certain precautions should be observed in the use of Safety Lamps:

1. Be sure that the lamp is locked before being taken into the mine.
2. Examine it carefully yourself to see that it is in good condition, even if it has passed the Lamp Inspector.
3. Do not set your lamp on the bottom of the mine. It may be accidentally upset and extinguished, and the glass globe may be broken. It is better to hang the lamp on a timber by a stout nail.
4. When testing for gas be careful to prevent dripping water from striking the glass globe.
5. When gas flames up in your lamp, withdraw the lamp slowly and carefully, and if the flame goes out retire to fresh air before attempting to relight it.

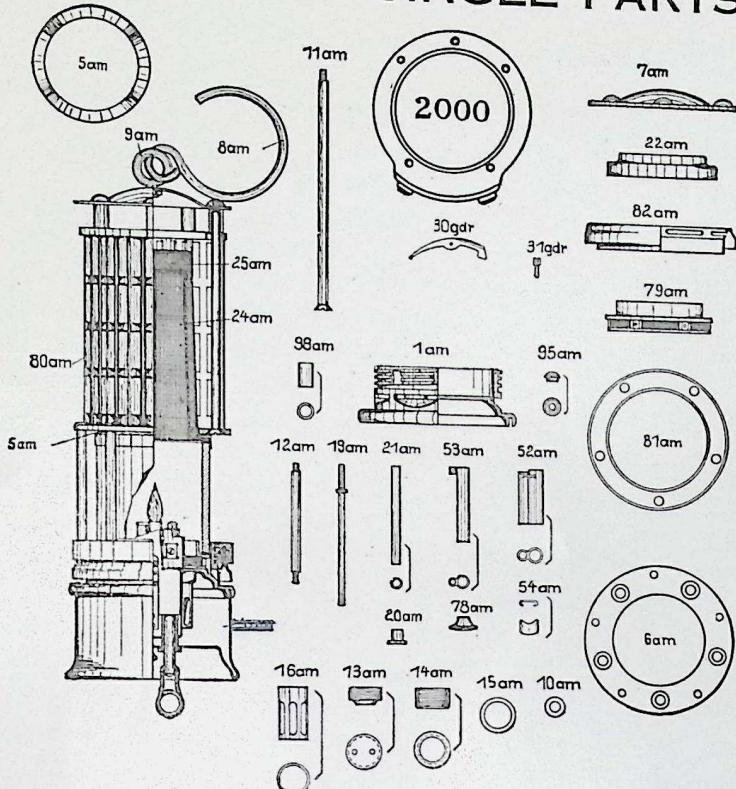
N. B.—(Bulletin No. 227 issued by the United States Bureau of Mines has been our guide in drafting the above instructions.)

Wolf Safety Lamp Co. of America, Inc.

68-72 EMERSON PLACE
227 GRAND AVENUE

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DIAGRAM OF SINGLE PARTS



- No. 1 am—Top of Lamp Font
 No. 2 am—Base of Lamp Font
 No. 3 am—Lamp Body
 No. 4 am—Lamp Chimney
 No. 5 am—Spring Ring
 No. 6 am—Middle Ring
 No. 7 am—Dome Top
 No. 8 am—Round hook
 No. 9 am—Eyelet
 No. 10 am—Washer
 No. 11 am—Rod with screw head
 No. 12 am—Rod fronting glass chimney
 No. 13 am—Filling Hole Stopper
 No. 13 am—Filling Hole Stopper, new type
 No. 14 am—Filling Hole with screw thread
 No. 15 am—Leather Washer
 No. 16 am—Cylindrical Cotton Spreader
 No. 19 am—Wick Adjuster
 No. 20 am—Bushing
 No. 21 am—Wick Adjuster Guide Tube
 No. 22 am—Gauze Ring
 No. 24 am—Outer Gauze
 No. 25 am—Inner Gauze
 No. 52 am—Burner for round wick
 No. 52 am—Burner for flat wick
 No. 53 am—Wick Holder for round wick
 No. 53 am—Wick Holder for flat wick
 No. 54 am—Wick Stop for round wick
 No. 54 am—Wick Stop for flat wick
 No. 78 am—Wick Adjuster Knob
 No. 79 am—Air Admission Ring
 No. 80 am—Corrugated Shield
 No. 81 am—Strengthening Ring (Upper)
 No. 82 am—Protecting Ring
 No. 83 am—Strengthening Ring (Lower)
 No. 95 am—Nut
 No. 98 am—Tube
 U. Z. Lamp Font Complete

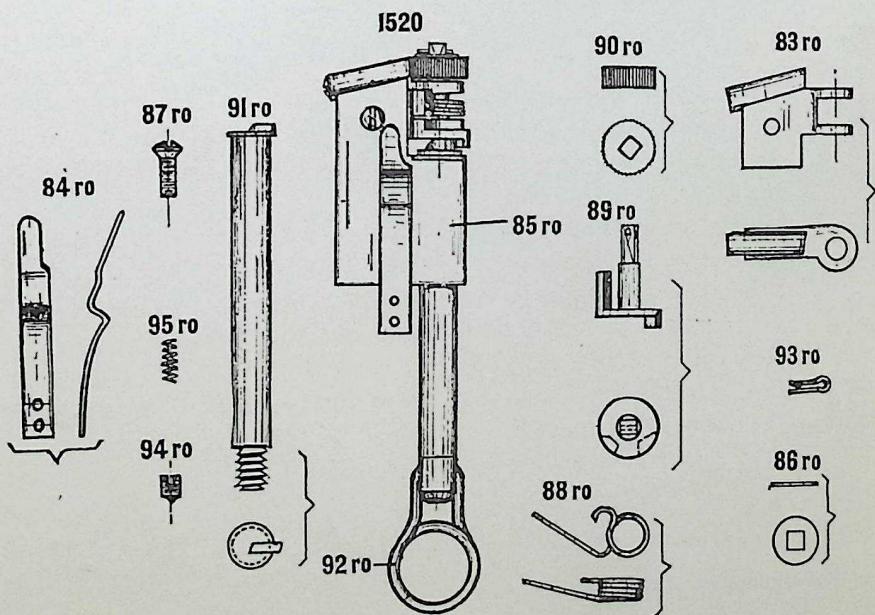
- No. 2000 —Complete Magnetic Lock Ring
 No. 26 gdr—Plate covering lock
 No. 27 gdr—Spring Pole
 No. 28 gdr—Tail Pole
 No. 29 gdr—Spring only
 No. 30 gdr—Anchor Beam without spring

- No. 31 gdr—Screw for anchor beam
 No. 32 gdr—Anchor Beam with spring for new type lock ring
 No. 2550—Complete Key Lock Ring
 No. 31 nv—Lock Screw
 No. 34 nv—Key

It is essential when ordering Lamps to state whether round or flat burner is required. Lamps No. 100, equipped with magnetic lock, and No. 131, equipped with key lock, are made in Steel with brass trimmings, Brass and Aluminum. When ordering extra parts, state whether for steel, brass or aluminum lamps. Key lock Lamps do not bear the approval of the Bureau of Mines.

DIAGRAM OF METAL SPARK IGNITER AND PARTS

- No. 1520 —Metal Spark Igniter complete
 No. 83 ro—Case for metal spark pin
 No. 84 ro—Side Spring
 No. 85 ro—Igniter Case
 No. 86 ro—Washer for friction wheel
 No. 87 ro—Screw for 83 ro
 No. 88 ro—Spring for friction wheel
 No. 89 ro—Spindle for friction wheel
 No. 90 ro—Friction Wheel
 No. 91 ro—Swivel bar threaded
 No. 92 ro—Swivel
 No. 93 ro—Cotter Pin
 No. 94 ro—Screw for adjusting ignition
 No. 95 ro—Spiral Spring for spark pin
 No. 96 ro—Key for operating igniter
 No. 1506 —Metal Spark Pin

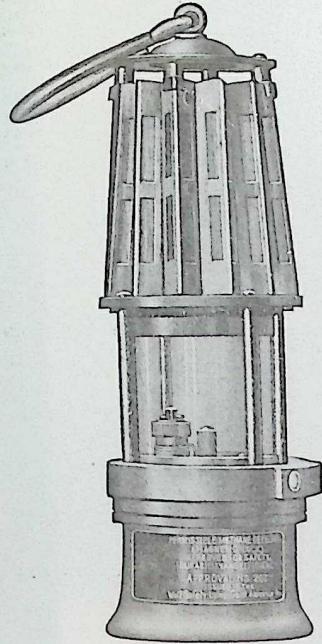


When ordering complete igniter and parts for Baby Lamps "RO. BE." should be specified.

No. 603 Wolf
Baby Methane Detector

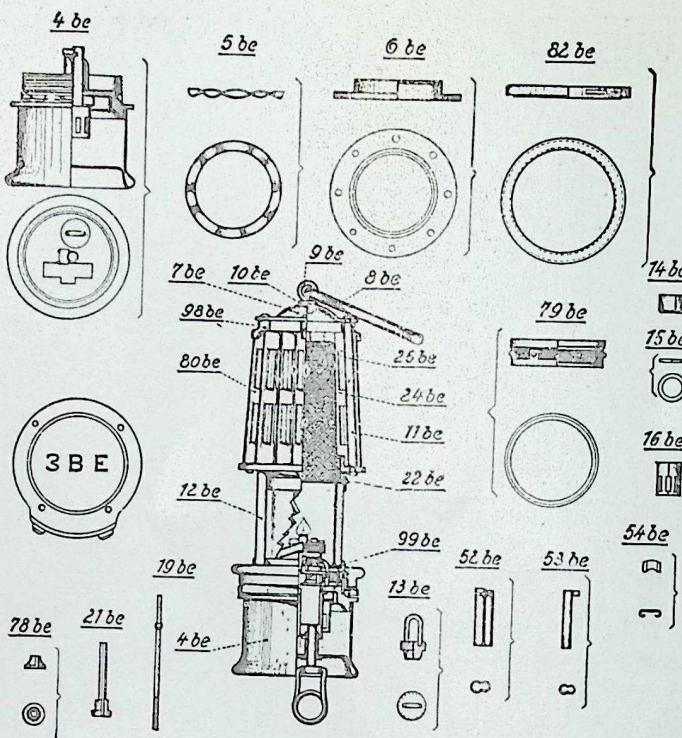
(U. S. Bureau of Mines Approval)

No. 602c Same construction, but with key lock. (Not approved.)



No. 2 be—Screw Ring without lock
No. 2 be—Screw Ring with key lock for 602c.
No. 3 be—Magnetic Lock Ring
No. 5 be—Expans—Ring
No. 6 be—Middle Ring
No. 7 be—Dome Top of Lamp
No. 8 be—Handle of lamp
No. 9 be—Eyelet and Washer
No. 11 be—Rod with screw head
No. 12 be—Rod fronting glass chimney
No. 13 be—Filling Hole Stopper

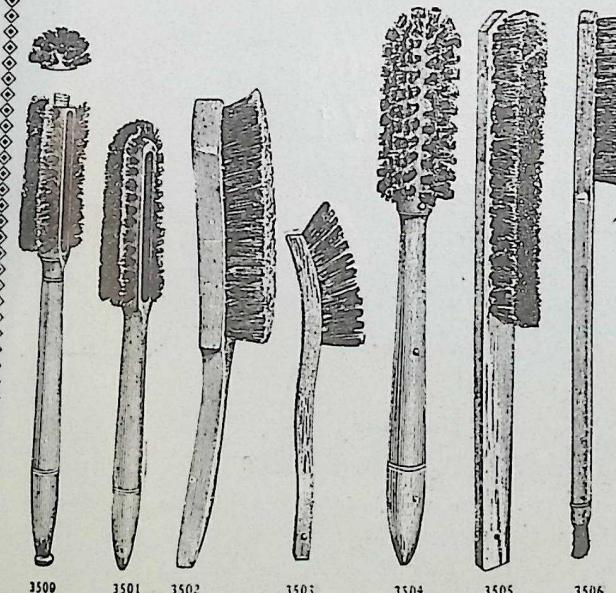
DIAGRAM OF SINGLE PARTS



No. 14 be—Filling Hole with screw thread
No. 15 be—Leather Washer
No. 16 be—Cotton Spreader
No. 19 be—Wick Adjuster
No. 21 be—Wick Adjuster Tube
No. 22 be—Gauze Ring
No. 24 be—Outer Gauze
No. 25 be—Inner Gauze
No. 52 be—Burrer
No. 53 be—Wick Holder
No. 54 be—Wick Stop

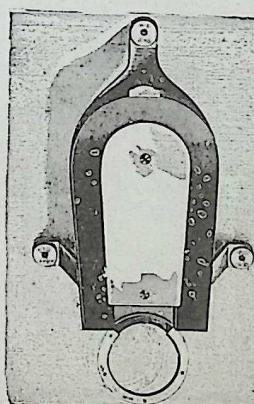
No. 78 be—Wick Adjuster Knob
No. 79 be—Air Admission Ring with gauze
No. 81 be—Corrugated Shield
No. 82 be—Protecting Ring
No. 98 be—Tube for corrugated shield
No. 99 be—Asbestos Washer
U. Z. Complete Lamp Font
No. 31 be—Lock Screw
No. 34 be—Key for lock ring
No. 35 be—Anchor Beam
No. 36 be—Spring for anchor beam
No. 37 be—Screw for anchor beam

Metal (Brass Wire) and Bristle Hand Brushes for cleaning lamps and gauzes



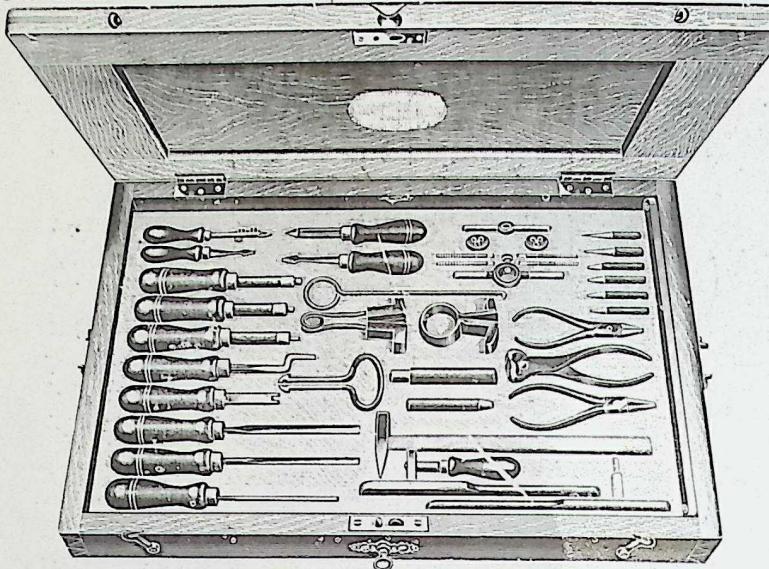
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No. 3500—Metal Gauze Brush (large), round, movable top
No. 3501—Metal Gauze Brush (small), round
No. 3502—Flat Metal Gauze Brush (large)
No. 3503—Flat Metal Gauze Brush (small)
No. 3504—Round Bristle Brush
No. 3505—Flat Bristle Brush (large)
No. 3506—Flat Bristle Brush (small)
No. 3504b—Small, half round, bristle brush for cleaning gauzes of Baby Lamps



Magnet for Locking and Opening Miners' Safety Lamps

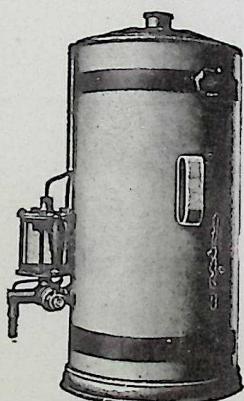
TOOLS FOR HANDLING AND REPAIRING WOLF SAFETY LAMPS



No. 4205

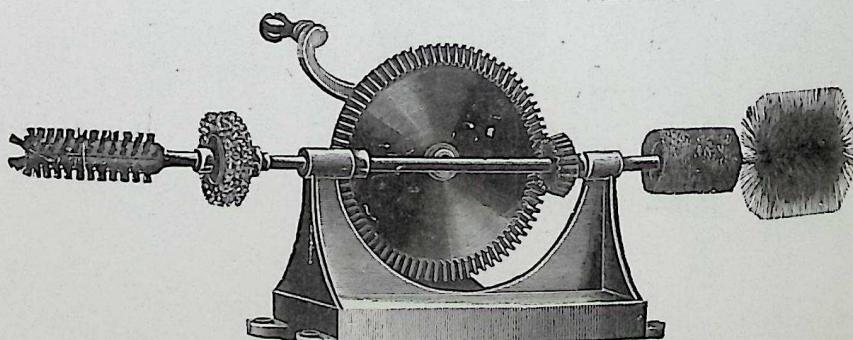
Order No. 4205—Tool chest, complete with tools for repairing Wolf Safety Lamps. Size 27½ x 20 x 5 inches.
 No. 4000—Setting tool for riveting bonnets
 No. 4001—Setting tool for riveting dome of lamp with bonnet
 No. 4002—Setting tool for riveting dome of lamp
 No. 4003—Setting tool for riveting middle ring of lamp with undetachable bonnet
 No. 4004—Tool for inserting rivets in bonnet
 No. 4005—Tool for inserting rivets in dome top of lamp
 No. 4006—Tool for inserting rivets in middle ring
 No. 4009—Anvil block for riveting spring for igniter, Mod. 1905
 No. 4010—Anvil block for riveting spring for igniter, Mod. 1907 and 1914
 No. 4011—Punch to adjust wick holder of flat burner lamp
 No. 4012—Punch to adjust burner of flat burner lamp
 No. 4013—Punch to adjust cotton spreader
 No. 4014—Punch for inserting cotton spreader
 No. 4015—Vise jaws for riveting standards on lamps without bonnets
 No. 4016—Vise jaws for riveting standards on lamps with bonnets
 No. 4017—Vise jaws for screwing standards
 No. 4018—Vise jaws for riveting eyelets
 No. 4019—Vise jaws for riveting pullbars, Mod. 1905
 No. 4020—Vise jaws for riveting pullbars, Mod. 1907 and 1914
 No. 4021—Rivet set for standards
 No. 4022—Rivet set for igniter coil pin
 No. 4023—Punch for frame rods
 No. 4024—Punch for igniter coil pin
 No. 4025—Rivet header for frame rods

No. 3205



Filling Apparatus for Wolf's Naphtha Safety Lamps

CLEANING MACHINE FOR WOLF'S SAFETY LAMPS



No. 3511—Small horizontal hand-power machine, suitable for small lamp cabins, for cleaning gauzes as well as glass chimneys.

Wolf Safety Lamp Co. of America, Inc.

68-72 EMERSON PLACE
227 GRAND AVENUE

BROOKLYN, NEW YORK

- No. 4026—Header for igniter coil pin
- No. 4027—Key to insert lower heavy gauze ring (bayonet lock)
- No. 4029—Tongs for drawing out cotton spreader No. 16 on normal fonts
- No. 4029—Tongs for drawing out cotton spreader No. 16 on Baby Lamps
- No. 4030—Tongs for inserting flat wick into lamp font
- No. 4033—Tongs for drawing out lower heavy gauze ring
- No. 4034—Hook for drawing cotton from normal fonts
- No. 4035—Hook for inserting cotton into font
- No. 4036—Cutting pliers
- No. 4037—Flat pliers
- No. 4038—Round pliers
- No. 4039—Hand vise
- No. 4040—Small screw driver
- No. 4041—Large screw driver
- No. 4042—Forked key
- No. 4043—Three cornered scraper
- No. 4044—Scraper for magnetic lock ring
- No. 4045—Hooked scraper
- No. 4047—Template for soldering wax igniter case.
- No. 4049—Soldering iron
- No. 4050—Pushing tool for scratcher
- No. 4051—Lifter for scratcher on igniter
- No. 4053—Igniter brush, Model 93
- No. 4054—Igniter brush, Model 97
- No. 4057—Large hammer
- No. 4058—Small hammer
- No. 4059—Mill cutter for tube on igniter case holder
- No. 4060—Mill cutter for wick adjuster tube
- No. 4061—Mill cutter for tube on igniter case
- No. 4062—Fraising wheel for cutting lock grooves in screw tops of lamp fonts
- No. 4063—Reamer for tube on igniter case holder
- No. 4064—Reamer for tube on igniter case
- No. 4065—Reamer for wick adjuster tube
- No. 4066—Lock ring clamp for recutting thread
- No. 4068—Tap for cutting thread on screw rings
- No. 4069—Adjustable die with reserve cutter for threading screw tops of lamp fonts
- No. 4072—Tap for recutting filling holes
- No. 4073—Die for recutting filling hole stoppers
- No. 4074—Die for recutting frame rods and wick adjuster
- No. 4075—Tap for frame rods
- No. 4076—Tap for wick holder
- No. 4077—Small winged wrench
- No. 4078—Small chisel for loosening springs
- No. 4079—Punch for cutting leather rings
- No. 4040a—Small screw driver for metal spark igniter, Mod. 1914
- No. 4033a—Swivel tongs for metal spark igniter, Mod. 1914
- No. 4054a—Brush for cleaning igniter case for metal spark igniter, Mod. 1914
- No. 4055a—Forked key for nut for metal spark igniter, Mod. 1914

WOLF'S OXYGEN DEFICIENCY INDICATOR

NO. 132



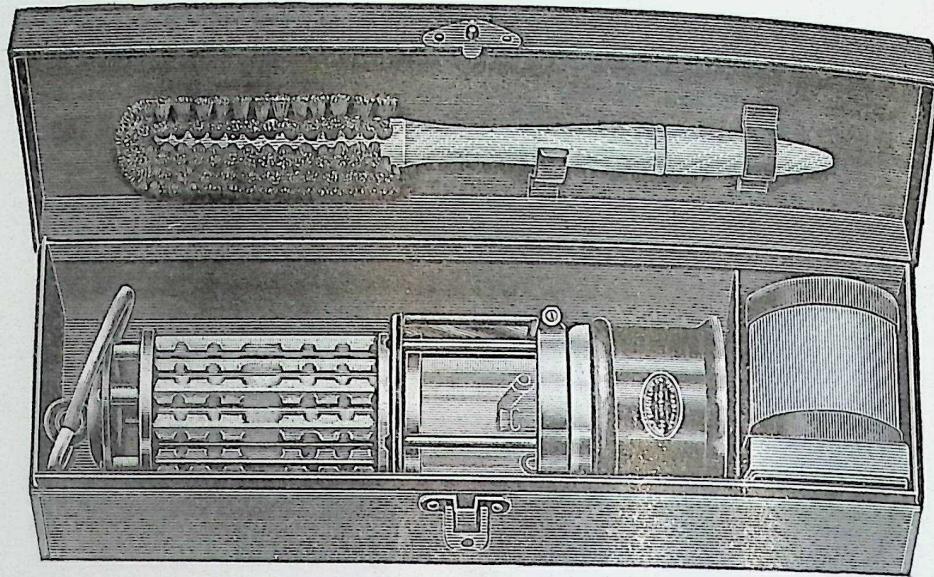
This instrument is used by leading Public Utility Companies for testing atmospheres suspected to be deficient in oxygen. It is also safe and suitable for detecting the presence of undiluted natural gas as well as a condition of oxygen deficiency in manholes located in areas supplied with manufactured gas, straight natural gas and natural gas diluted with manufactured gas. (Special booklet, fully describing this instrument, will be sent upon request.)

Wolf Safety Lamp Co. of America, Inc.

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BROOKLYN, NEW YORK

SAFETY LAMP EQUIPMENT FOR MARINE USE



This equipment has been approved for Marine Service by the United States Department of Commerce, Board of Supervising Inspectors, Steamboat Inspectors' Service.

This Flame Safety Lamp is especially designed for marine use and is provided with a hinged mirror on the side so that the flame can be observed from above when the lamp is lowered into a tank, boiler or quarters under test. The Lamp only without mirror is also approved by the United States Department of Commerce, Steamboat Inspectors' Service, and can be furnished if desired.

No. 3200



The Safety Filling Can shown above is an important accessory to be used in connection with approved equipment and lamp. It prevents overcharging of font and is absolutely safe for the storage of fuel.

Wolf Safety Lamp Co. of America, Inc.

68-72 EMERSON PLACE
227 GRAND AVENUE

BROOKLYN, NEW YORK

PRICE LIST
for
Wolf Miners Safety Lamps, Parts, Tools etc.
EFFECTIVE JANUARY 1, 1937.

Terms--On approved credit, 30 days net. Order for C.O.D. shipment must be accompanied by sufficient cash to cover transportation charges both ways.

Prices: F.O.B. Brooklyn, New York.
We will not allow credit for goods returned except by special arrangement, and a handling charge of 10% will be made.

Prices are subject to change without notice --- invoices carry a minimum charge of 50¢.

APPROVED BIMETALLIC UNIT FOR ROUND BURNER LAMPS ONLY.....\$2.00 Each.

No.	Material	Lamps	Each
100	Steel, brass trimmings.	Wolf Miners Safety Lamp, corrugated shield, metal spark igniter, magnetic lock, round or flat burner, U.S. Bureau of Mines Approval Nos. 204 and 208.....	\$7.00
100	Brass	Wolf Miners Safety Lamp, corrugated shield, metal spark igniter, magnetic lock, round or flat burner.....	8.70
100	Aluminum	Wolf Miners Safety Lamp, corrugated shield, metal spark igniter, magnetic lock, round or flat burner, U.S. Bureau of Mines Approval Nos. 205 and 206.....	9.50
131	Steel, brass trimmings	Wolf Miners Safety Lamp, corrugated shield, metal spark igniter, key lock, round or flat burner.....	7.00
131	Brass	Wolf Miners Safety Lamp, corrugated shield, metal spark igniter, key lock, round or flat burner.....	8.70
131	Aluminum	Wolf Miners Safety Lamp, corrugated shield, metal spark igniter, key lock, round or flat burner.....	9.50
602C	Aluminum	Wolf Baby Safety Lamp, corrugated shield, metal spark igniter, key lock.....	13.75
603	Aluminum	Wolf Baby Methane Detector, U. S. Bureau of Mines Approval No. 207.....	15.00
770	Steel	Wolf Universal Safety Lamp, key lock.....	5.00

IGNITERS

No.		Per C.
1520	Wolf Metal Spark Igniter complete, approved by United States Bureau of Mines.....	\$150.00
1520BE	Wolf Baby Metal Spark Igniter Complete, approved by U.S. Bureau of Mines.....	300.00
1508	Wolf Metal Spark Pin, approved by U.S. Bureau of Mines.....	25.00

Discounts on Spark Pins -- 40% in 100 lots and up; 50% in 500 lots and up.)

FILLING APPARATUS

No.		Each
3205	Filling Apparatus with one faucet.....	\$75.00
3206	Filling Apparatus, large, with two faucets.....	125.00
1F18F	Complete Filling Device for Filling Apparatus Nos. 3205 and 3206.....	40.00
3200	Brass Naphtha Can (1 qt. capacity).....	5.00

WOLF SAFETY LAMP CO. OF AMERICA, Inc.

68-72 Emerson Place, Brooklyn, N. Y.
227 GRAND AVENUE

WIRE GAUZES

No.		Per C.
	Brass	Iron
24AM	Outer Gauzes for No. 100 and 131 lamps.....	\$30.00
25AM	Inner " " " " " "	30.00
24BE	Outer Gauzes for No. 602C and 603 Lamps.....	37.50
25BE	Inner " " " " " "	37.50

GLASS CHIMNEYS AND LENSES

Glass Chimneys, Wolf Special "A" Hardglass for No. 100, 131, 201 and 232 lamps, U.S. Bureau of Mines Approval.....	Per Doz.	\$4.00
Glass Chimneys, Wolf Special No. 1 Red.....	" C.	50.00
Glass Chimneys, for No. 602C and 603 Lamps.....	" Doz.	5.00
Glass Chimneys for No. 770 Lamp.....	" C.	50.00
Glass Lenses for No. 100 and 131 Lamps.....	Each.	3.00

BRUSHES

No.		Per C
3500	Metal Gauze Brush, large, round, movable top, brass wire.....	\$125.00
3501	Metal Gauze Brush, small, round, brass wire.....	100.00
3502	Metal Gauze Brush, large, flat, brass wire.....	110.00
3503	Metal Gauze Brush, small, flat, brass wire.....	80.00
3504	Round Bristle Brush.....	85.00
3505	Flat Bristle Brush, large.....	75.00
3506	Flat Bristle Brush, small.....	50.00
3504B	Small half round Bristle Brush for No. 602C and 603 lamps.....	60.00
4042	Forked Key.....	75.00
4040A	Small Screw Driver for metal spark igniter.....	50.00
4033A	Swivel Tong for metal spark igniter.....	150.00
3511	Small Hand Power Cleaning Machine.....	Each 30.00
4205	Tool Chest, complete with tools for repairing safety lamps.....	" 65.00

Spare Parts for No. 1505 Metal Spark Igniter (Igniter discontinued)

No.	Per C	No.	Per C
83RM	Side Spring.....\$4.00	93RM	Nut for fastening friction
86RM	Curve Guide.....9.00		wheel.....\$3.00
87RM	Screw for fastening same.....1.50	94RM	Screw for spark pin.....2.50
88RM	Spring for friction wheel.....8.00	95RM	Spiral Spring for spark
89RM	Spindle for friction wheel.....17.00	96RM	Brake Bolt.....3.50
90RM	Friction Wheel.....9.00	97RM	Spiral Spring for brake
91RM	Swivel Bar.....24.00	98RM	Brake bolt.....2.00
92RM	Swivels.....9.50		Screw for brake
	Key for swivel bar...25.00		bolt.....1.50

LOCK RINGS AND MAGNETS

No.		Per C.
	Brass	Alum.
2000	Magnetic Lock Ring, complete for #100 Lamp.....	\$150.00
2550	Key Lock Ring, complete, for No. 131 Lamp.....	150.00
3000	Horseshoe Magnet for opening and locking #100 Lamp.....	Each \$25.00

Spare Parts for No. 2000 Magnetic Lock Ring

No.	Per C.	No.	Per C.
26GDR	Plate covering lock.....\$7.50	30GDR	Anchor Beam (old con-
27GDR	Spring Pole.....6.00		struction).....\$12.00
28GDR	Tail Pole.....8.00	31GDR	Screw for same.....1.50
29GDR	Spring.....1.00	32GDR	Anchor beam with Spring (new construction).....15.00

WOLF SAFETY LAMP CO. OF AMERICA, Inc.

227 GRAND AVENUE, Brooklyn, N. Y.

Spare Parts for No. 100 and 131 Safety Lamps

No.		Per C.	
	Steel	Brass	Alum.
1AM	Top of Lamp Fount.....	\$225.00	\$225.00
XAM	Top of Lamp Fount	225.00	225.00
5AM	Spring Ring.....	12.00	12.00
6AM	Middle Ring.....	12.00	30.00
7AM	Dome Top.....	24.00	28.00
8AM	Handle with round hook.....	8.00	12.00
9AM	Eyelet.....		13.00
10AM	Washer.....		1.25
11AM	Rod with screw head.....		10.00
12AM	Rod fronting glass chimney.....	3.50	3.50
13AM	Filling Hole Stopper, new type.....	15.00	15.00
14AM	Filling Hole with screw thread.....	8.50	8.50
15AM	Leather Washer.....	1.00	1.00
16AM	Cylindrical Cotton Spreader.....	7.00	7.00
19AM	Wick Adjuster.....	10.00	10.00
20AM	Bushing.....	3.00	3.00
21AM	Wick Adjuster Guide Tube.....	5.00	5.00
22AM	Gauze Ring.....		8.00
52AM	Burner for round wick.....	9.00	9.00
52AM	Burner for flat wick.....	13.85	13.85
53AM	Wick Holder for round wick.....	10.00	10.00
53AM	Wick Holder for flat wick.....	12.00	12.00
54AM	Wick Stop for round wick.....	5.00	5.00
54AM	Wick Stop for flat wick.....	5.20	5.20
78AM	Wick Adjuster Knob.....	5.75	5.75
79AM	Air Admission Ring.....	40.00	40.00
80AM	Corrugated Shield.....	55.00	55.00
81AM	Strengthening Ring (Upper).....		70.00
82AM	Protecting Ring.....		10.00
83AM	Strengthening Ring (Lower).....	17.00	17.00
95AM	Nut.....	2.50	2.50
98AM	Tube.....	3.00	3.00
U.Z.	Lamp Fount Complete.....	350.00	400.00
	Complete Upper Part equipped with magnetic lock.....	450.00	475.00
	" " " " key lock.....	450.00	476.00
	Magnetic Lock Ring, Middle Ring and 5 Rods completely assembled.....	205.00	225.00
			265.00

Spare Parts for Approved No. 1820 Metal Spark Igniter for No. 100 and 131 Lps.

No.	Per C	No.	Per C		
83RO	Case for spark pin.....	\$30.00	91RO	Swivel Bar.....	\$20.00
84RO	Side Spring.....	5.00	92RO	Swivel.....	9.50
85RO	Igniter Case.....	55.00	93RO	Cotter Pin.....	.50
86RO	Washer for friction wheel...	1.00	94RO	Screw for spark pin.....	2.50
87RO	Screw for #83RO.....	2.50	95RO	Spring for spark pin.....	2.00
88RO	Spring for friction wheel...	6.50	Key with swivel for swivel		
89RO	Spindle for friction wheel...	26.00	bar.....	25.00	
90RO	Friction Wheel.....	9.00			

Spare Parts for No. 2550 Key Lock Ring

No.	Per C.	
31NV	Lock Screw in Brass.....	\$12.00
34NV	Key in brass.....	18.00

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227 GRAND AVENUE

Spare Parts for No. 602C and 603 Baby Lamps

No.		Per C
2BE	Screw Ring without lock.....	\$105.00
2BE	Screw Ring with key lock.....	112.50
3BF	Magnetic Lock Ring.....	217.50
5BE	Expansion Ring.....	15.00
6BE	Middle Ring.....	52.50
7BE	Dome Top of Lamp.....	30.00
8BE	Handle of Lamp.....	15.00
9BE	Eyelet.....	15.00
11BE	Rod with screw head.....	7.50
12BE	Rod fronting glass chimney.....	6.00
13BE	Filling Hole Stopper.....	16.50
14BE	Filling Hole with screw thread.....	13.50
15BE	Leather Washer.....	1.50
16BE	Cotton Spreader.....	13.50
19BE	Wick Adjuster.....	13.50
21BE	Wick Adjuster Tube.....	6.00
22BE	Gauze Ring.....	15.00
52BE	Burner.....	13.50
53BE	Wick Holder.....	13.50
54BE	Wick Stop.....	7.50
78BE	Wick Adjuster Knob.....	12.00
79BE	Air Admission Ring with gauze.....	60.00
81BE	Corrugated Shield.....	90.00
82BE	Protecting Ring.....	30.00
U.Z.	Complete Lamp Fount.....	600.00
31BE	Lock Screw.....	15.00
34BE	Key for key lock ring.....	27.00
98BE	Tube for corrugated shield.....	10.50

Spare Parts for No. 1520BE Metal Spark Igniter
for No. 602C and 603 Baby Lamps.

No.	Per C	No.	Per C		
83ROBE	Case for spark pin.....	\$45.00	90ROBE	Friction Wheel.....	\$13.50
84ROBE	Side Spring.....	7.50	91ROBE	Swivel Bar.....	30.00
85ROBE	Igniter Case.....	82.50	92ROBE	Swivel.....	14.25
86ROBE	Washer for friction wheel	1.50	93ROBE	Cotter Pin.....	.75
87ROBE	Screw for #83ROBE.....	3.75	94ROBE	Screw for spark pin.....	3.75
88ROBE	Spring for friction wheel	9.75	95ROBE	Spiral Spring for spark pin.....	3.00
89ROBE	Spindle for friction wheel.....	39.00	Key with swivel for swivel bar.....	22.00	

WASHERS.

	Per C.
Asbestos Washers for Lamps Nos. 100, 131, 201 and 232.....	\$2.50
Perpetual Washers for Lamps as above.....	2.50
Perpetual Washers for Lamps Nos. 602C and 603.....	3.00
Asbestos Washers for Lamps as above.....	3.00

COTTON AND WICK

	Per Pkge.	Per Doz.
Cotton for filling lamp founts.....	\$ 1.00	
" " standard round burner lamps.....	1.70	\$.30
" " flat " "	1.90	.30
" " Baby Lamps.....	2.85	.45

WOLF SAFETY LAMP CO. OF AMERICA, Inc.

68-72 Emerson Place, Brooklyn, N. Y.
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