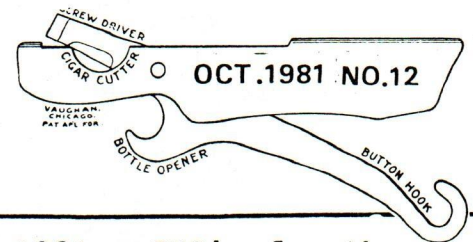


Just for openers

P.O. BOX 106 TRUMBULL, CONNECTICUT 06611



This is the last issue of "Just for Openers" for 1981. JFO's fourth year begins in January, 1982 with issue No. 13. Renewal forms for 1982 are enclosed and an early response would be appreciated and will ensure listing of your name in the 1982 opener collector directory.

Plans for the January issue include Ed Kaye's additions to the catalog of openers. Ed has spent hours compiling this list from all the additions submitted by members to JFO and directly to him. Future plans are for a complete composite catalog of openers which would combine all openers cataloged to date under each corresponding type. You then will not need to look at several different updates to catalog your collection. This project is scheduled for completion in late 1982 and your cooperation is important. If you have openers not previously listed, write to Ed at 1840 Major Drive, Golden Valley, MN 55422. Continue to report new types directly to JFO. Discoveries will be included in the April, 1982 issue.

Joe Balaban has laid some groundwork for the 1982 opener convention. It will be held April 23 & 24 at the Holiday Inn SE at Emerson and Highway 465, Indianapolis, Indiana. Mark your calendars now. Further details and registration forms will be mailed with the January issue.

BUY - SELL - TRADE

10¢ per word - deadline for January, 1982 issue is December 1, 1981.

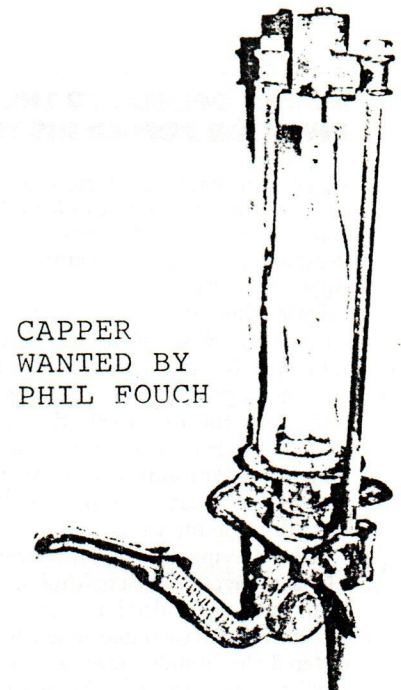
SELL - B-24 #26 Narragansett (1935) Price Guide value 6-10 for min. rust & pitting. Sell \$6.00 new condition. R. Ross, 96 Valley Road, Cos Cob, CT 06807.

SELL - Ten different openers \$7.50. Three page list 25¢. Other individual lists 25¢ each: coasters, cans, tap knobs, trays, mini bottles, and patches. Jantos, 7025 Kevin, Bethel Park, PA 15102.

WANTED - Corkscrews - all types - with and without advertising. Joe Balaban, 8305 Christiana Lane, Indianapolis, IN 46256.

WANTED - Ice picks and corkscrews with beer advertising. Cast figural openers. Don Bull, 63 October Lane, Trumbull, CT 06611.

WANTED - The bottle capper shown at right. Manufactured by Enterprise Mfg. Co., Penna. Also want other cappers. Phil Fouch, 20944 Eastwood, Warren, MI 48089.



CAPPER
WANTED BY
PHIL FOUCH

Bottle capper, 1917 patent. The capper section runs up and down the side bars to adjust to the height of the bottle. The platform lifts the bottle up to the capper and down again.



5 women arrested after teen stabbed

OPENERS IN THE NEWS

Phil Fouch spotted the "Hagar the Horrible" cartoon and circulated it to a few people with the Big Gus crossed out and the correspondents name neatly inserted.

Openers are dangerous - as the article from the Bridgeport, Connecticut Post will attest -----

The article on Ernie Frazee is from the Sept. 1981 issue of "Inc." magazine.

WESTPORT — Five women, who were arrested Sunday morning in connection with an altercation in a parking lot across from the Brook Cafe, Post Road, in which an 18-year-old Westporter was stabbed with a can opener, are scheduled for court arraignment Sept. 9.

Free on \$1,000 bond is Emelia Kelley, 30, of 245 Sunnyridge Avenue, Fairfield, a member of the Fairfield Representative Town Meeting, who is charged with first degree assault and possession of a dangerous instrument in connection with the stab-

bing of James Hill of East State Street.

Shirley Gaydio, 21, also of 245 Sunnyridge Avenue, is charged with first degree assault, breach of the peace and failing to keep narcotics in the original container; and Linda Lucas, 21, of McKinley Avenue, Bridgeport, is charged with first degree assault and breach of the peace. Both are free on \$1,000 bond pending arraignment Sept. 9.

Others arrested were

Donna Fermo, 24, of Oak Street, Bridgeport, breach of the peace; and Faye Friedman, 23, of McKinley Avenue, Bridgeport. Both were released on a promise to appear Sept. 9.

Police said the five women were driving out of the parking lot when they almost collided with Hill's auto. In the fight that ensued, Hill was stabbed in the side.

NO CAN OPENER, SO THE INVENTOR POPPED HIS TOP

When you start seeing new pop-top cans in stores this fall, think of Ernie Frazee. Frazee is to the metal can as Whitcomb L. Judson, inventor of the zipper, is to pants.

Frazee, though mum about the specific design of his new top, says the cans will be an improvement upon the "ecology top" that retains the lever with the can when the can is opened. For Frazee it's just another in a long line of innovations in can technology that began 22 years ago after a softball game on a hot day.

After playing all day, Frazee went to his car eagerly anticipating a cold drink from a soft drink can stashed in his ice chest. Frustrated when he discovered he didn't have a "church key" to open the can, he bashed it open on his car bumper, spilled half the contents, and vowed he'd find a better way.

He did, and two years later, the Pittsburgh Brewing Co., makers of Iron City Beer, tested his "lift top"



Ernie Frazee: Tops in his field.

can. Frazee, who ran a machine shop in Dayton, Ohio, had engineered a metal rivet that would hold a lever on the top of the can securely enough to withstand the pressure applied to pull open a stamped aluminum tab. It was a double innovation: The aluminum

top, which replaced the all-steel tops then in use, could double the shelf life of the can's contents.

Within five months, Iron City had sold 100 million cans of beer to places as far away as California—surprising volume since the company had been averaging only 18 million cans per year up to that point. Other beverage manufacturers clamored for the tops and the machinery that made them (Frazee has patents on both). Schlitz, while asking for one billion tops, predicted the invention was a fad that would last only a year or two.

Schlitz was wrong, and today Ernie Frazee earns a royalty on each one of the 130 billion cans manufactured with his tops. His machine tool company, Reliable Tool and Manufacturing, has captured 80% of the market for the machines that make the tops and last year had revenues of about \$18 million.

Frazee predicts the canning industry will spend about \$180 million over the next decade to retool for the new design, and he expects to have the lion's share of the machine sales.

Dawson L. Jones

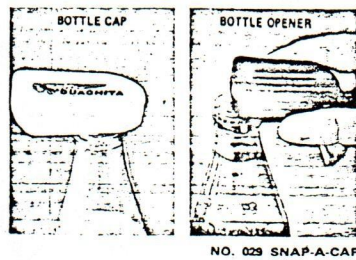
Since the publication of A PRICE GUIDE TO BEER ADVERTISING OPENERS AND CORKSCREWS, I have received a number of letters asking why the value of type M-27 is shown as only \$3.00. One such query came from Glenn Walling. I wrote to Glenn and told him that a significant quantity of these Lone Star openers had been offered to me via a 1975 flyer at prices as low as 15¢! I turned it down. The flyer is reproduced (reduced) below.

Glenn wrote to the Bortner Co. inquiring about the opener and in May of this year received one such opener in the mail without a note, a bill, or a statement.

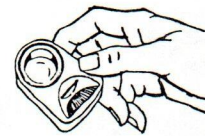
Do you have a Lone Star opener? If not, perhaps you should try writing to the David A. Bortner Co. at 455 North Parker Drive, Janesville, Wisconsin 53545.

..... Don Bull

SNAP-A-CAP



Originality and imagination in action...expressed in a NEW lightweight, compact combination bottle opener and cap. Snap-A-Cap provides a colorful accent in red, blue, black, or white. With unlimited promotional possibilities to both the homemaker and sportsman, Snap-A-Cap is packaged in printed poly bags.



Large 1 5/8" x 1" imprint area, embossed in gold or any standard color.

Mr. C.R. Schwisow of Teraco, Inc. in Midland, Texas advises that the type N-31 snap-a-cap bottle opener-bottle cap was produced approximately during 1968 through 1974 or 1975. It was sold exclusively with advertising on it and a great variety of ad copies were actual used. He estimates that in excess of half a million were produced. Teraco did not manufacture other types of openers and no patents were applied for on this product.

HOW'S THIS FOR OPENERS?

Lone Star Bottle Opener/Belt Buckle

SAVE 75%
Clever "You Pay" Feature On Back Of Opener
Spin... See Who Pays
SEE INSIDE FOR FINAL CLOSURE PRICES
Exclusive Lone Star Design
SUBJECT TO AVAILABILITY

Timely Unique

Bright Chrome Plate Finish
New Buckles - Beautifully Gift Boxed and Ribbon Tied

QUANTITY AVAILABLE 150 pcs. \$2.50 each 50 pcs. \$2.00 each 100 pcs. \$1.50 each ONLY 50¢ each

Top Grain Leather Belts, Black/Chocolate @ \$3.50 each
Reversible Denim and Leather Tooled Vinyl Belts @ \$1.50 each

Send us Buckles @ \$ _____
Belts @ \$1.50 - \$ _____
Belts @ \$3.50 - \$ _____

Black	24	26	28	30	32	34	36	38	40	42	44	46	48	50
Denim/Vinyl														
Leather														

Use This Order Form - Fill Out Back

The ad for the type M-3 "PrestOpener" appeared in the June, 1936 issue of the Brewers Journal. As the ad states, can you resist playing with the opener and showing it off when not actually is use?

If you want to put an army of walking "ads" to work, this unique, disappearing bottle-opener, etched and enameled in color, will serve you loyally. No owner can help playing with it and showing it off when he is not actually using it.

Write TODAY for Samples and Prices to Dept. W6

Order on This Form From:
David A. Bortner, Inc.
455 North Parker Drive
Janesville, Wisconsin 53545
608/762-2125

Enclose Your Check! We Pay Shipping

Lone Star Bottle Opener/Key Chain

Bright Chrome Plate Opener and Chain
Easy To Find Size
20¢ EACH
100 pcs. \$20.00
50 pcs. \$10.00
25 pcs. \$5.00

Lone Star Bottle Opener/Bolo Tie

Bright Chrome Plate Opener and Tips
Braided Vinyl Cords • Assorted Colors
ONLY 50¢ EACH
QUANTITY AVAILABLE 150 PCS.
\$3.00 EACH \$2.25 EACH \$2.00 EACH

Long Live Long Necks and Lone Star Beer

Permanently Embossed on Opener
Lone Star Bottle Opener
15¢ EACH
Promote The Returnable Bottle
Promote The Brand
Will Last For Years
QUANTITY AVAILABLE 2,000 PCS.

Beautifully Gift Boxed and Ribbon Tied

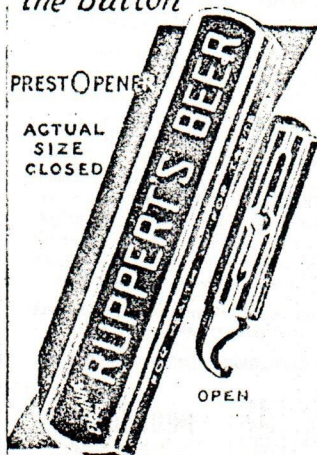
Send us \$ _____

My check in the amount of \$ _____ is enclosed
Please ship my order as marked on this form.

Name _____
Street _____
City _____ State _____ Zip _____
Buyer's Name _____

We Will Return New Order Blanks With Shipment

Whenever they push the button



they also push your brand

E.C.C.O.

ELECTRO-CHEMICAL ENGRAVING CO. INC.

GENERAL OFFICES
1100 BROOK AVE., NEW YORK

SALES OFFICES
CHICAGO-123 W. MADISON ST.
DETROIT-GEN'L MOTORS BLDG.

2 PorEzy Openers for canned beer. A handsome white porcelain finished counter press, and the popular bright nickeled steel opener for packing in your cartons.

THE AIR SCALE COMPANY

Toledo, Ohio



The ad at left is from the October, 1936 issue of Modern Brewery Age magazine. The Type I-24 combination can piercer / cap lifter shown is marked "PorEzy Patd." Has anyone found out if a patent was indeed issued for this opener? Has anyone seen the K-type can piercer with beer advertising shown in this ad? Without adv.? (Ad courtesy of Bill Vollmar, Anheuser Busch achivist).

The Earl Products Co. ad below is from the August, 1954 issue of Brewers Digest. If any were purchased for beer promotion, they must still be around - the ad does state - "will last a lifetime!" How long is that? (Submitted by Phil Fouch).

BOTTLE OPENERS



As made and priced by
VAUGHAN
Conveniently shown for your consideration
NOTE OUR LOW PRICES
Vaughan Quality and Service Already Best Always Will Be Best



Vaughan Novelty Mfg. Co., Inc.
MANUFACTURERS

PRINTED IN U.S.A.

AT LAST! Here's a **TERRIFIC** Advertising Specialty-Premium Designed Specially for the **BREWING INDUSTRY**

As Low As 10c each—with Hot Die-Stamped Gold Imprint (in quantities)

- Opens all types of cans, bottles, jars
- The only opener that won't tear your pocket
- Tooled-steel cutting edge lasts forever
- Colorful acetate cap protects and beautifies
- Hot die-stamped gold imprint is clear and lasting

Easy and convenient to use, incorporating every principle of the successful premium, KE-OPEN-ALL will be a personal advertisement that will serve you for years. The perfect tie-in premium, KE-OPEN-ALL is an item that everyone can use. Your message on each opener will be seen and appreciated *thousands* of times. The hot die-stamped gold imprint withstands perspiration and all normal use—will last a lifetime.

NOTE: We have complete facilities for handling, servicing, and mailing your premiums. Just tell us what you want and leave the rest to us. Our terrific volume enables us to give you the lowest prices and the best service anywhere! Whatever your premium problem—LET US SOLVE IT!

WRITE ON YOUR LETTERHEAD FOR FREE SAMPLE AND COMPLETE PREMIUM PLAN

TURN OVER YOUR PREMIUM PROBLEMS TO

EARL PRODUCTS CO.
701 N. Sangamon Street
Chicago 22, Ill. Taylor 9-9860

Early opener catalogs from manufacturers promoting to the brewing industry seem to be a difficult thing to come by. Joe Balaban has turned up some early cork-screw catalogs which have given us a lot of helpful information on those cork-screws which advertise beer. A 1922

PLEASE NOTE:

The following bottle openers are made of the best grade of steel, well polished to remove all rough edges, and double plated with a high grade bright nickel finish.

No. 1, 12, 14, 16, 21, 22, 184, 162, 165, and 186 can be stamped only on one side. All other openers can be stamped on both sides if desired, at an additional charge. All prices cover advertisement stamped with Block Type on One side and in straight line only, not on a curve.

If special lettering or reproduction of trademark or design is desired, this can only be done with an engraved die, which means—no reproduction the advertisement cut into tool steel by hand. We make a minimum charge of \$7.50 Net, for such dies to cover cost of engraving only. As this charge does not include the cost of steel, its preparation nor other expenses, we retain the die for use on future orders.

Extra charge for stamping ad on both sides:
Quantity 250 500 1,000 2,500 5,000 10,000
Price.....\$1.50 \$2.00 \$2.50 \$2.90M \$1.75M \$1.50M

Orders and contracts for larger quantities take lower prices, and contracts may be specified against as needed; the entire quantity to be taken within a reasonable stated period.

All Flat Openers Packed in Boxes of 100

POCKET OPENERS ENCLOSED IN PLAIN ENVELOPES \$2.00 per 100 EXTRA

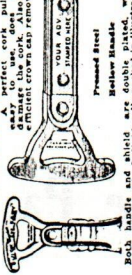
TERMS: 15-30 days, 30 days Net F.O.B. Chicago

Vaughan Novelty Mfg. Co.
Incorporated
MANUFACTURERS
2311-13 CARROLL AVENUE
CHICAGO, ILL.

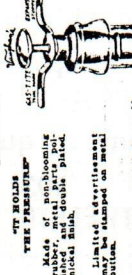
Folder No. 344 Effective March 25, 1935

Vaughan catalog was reproduced in the price guide. But very little else of early vintage has turned up. The 1935 Vaughan catalog shown on the next page came from a Coca Cola collector in Kentucky. It is interesting to note the reappearance of many of the same openers shown in the 1922 catalog. Also note that the type G-1 is shown as an "Improved Perfection" (Type G-12) Does the No. 167 ice pick/opener exist with beer adv.? Does anyone have other catalogs or ads for reproduction in JFO?

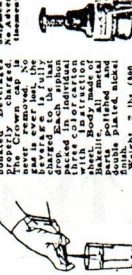
No. 164-A "QUICK AND EASY"
Cork Puller and Bottle Opener
Combination Pocket Bottle Opener and Filling Corkscrew
Corkscrew is made of tool steel, properly tempered.
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 171 "GAS-TITE" STOPPER
"T" BODIES
Made of non-blowing metal and double plated, nickel finish.
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



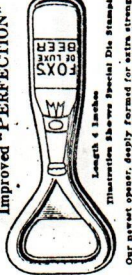
No. 149 PERFO-SIPHON
For use in all cases where a siphon is required. No stopper or charge. No water to be added. Fully guaranteed. Made of brass. Packed in boxes of 100.
Weight 1 lb. (4.5 Kilos) per M.
Quantity 1000
Price \$100.00




NEW
No. 3 "NEVER-SLIP" POCKET BOTTLE OPENER
Length 2 1/2 inches
The most popular bottle opener in the market today.
Weight 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 165 Improved "PERFECTION"
Length 4 inches
Illustration Shows Special Die Stamping
Our patent pending, deeply formed for extra strength and a comfortable grip. The handle is made of extra heavy metal and stamped in quantity of one hundred.
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



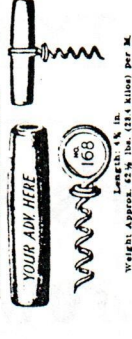
No. 63 "NIFTY"
Combination Pocket Bottle Opener and Filling Corkscrew
Corkscrew is made of tool steel, properly tempered.
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



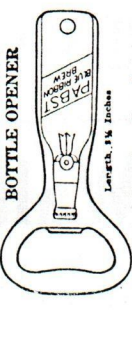
No. 101 Nifty Combination Bottle Opener & Cork Screw With Flexible Ball Key Chain
Length Overall, 3 1/2 inches
Illustration shows special die stamping. Corkscrew is made of tool steel, properly tempered. Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



No. 168 CORKSCREW
Double Blade Corkscrew with Large Wood Tube
When handle is inserted in the ring of the corkscrew printed on the handle, accurate British advertisement.
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 177 "HEAVY DUTY" BOTTLE OPENER
Length 2 1/2 inches
Made of Extra Heavy Gauge Steel
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 166 "HEAVY DUTY" SCHROEDER HOTELS
Length 2 1/2 inches
Made of Extra Heavy Gauge Steel
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



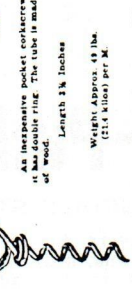
No. 104 "OVER THE TOP" SIMPSON SPRING
With Your Ad. Stamped
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



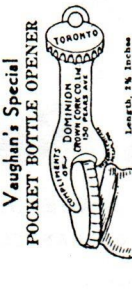
No. 91 "OVER THE TOP" WITH PIERCING STUD
Same as No. 104 described above, but with piercing stud that perforates the Crown cap making it impossible to use the cap again.
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



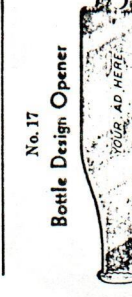
No. 169 CORKSCREW
Double Blade Corkscrew with Small Wood Tube
When handle is inserted in the ring of the corkscrew printed on the handle, accurate British advertisement.
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



No. 70 Vaughan's Special POCKET BOTTLE OPENER
Length 2 1/2 inches
Made of Extra Heavy Gauge Steel
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



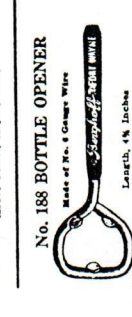
No. 12 "Outing" Key Style POCKET BOTTLE OPENER
Length 2 1/2 inches
Made of Double Plated, Nickel Finish
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



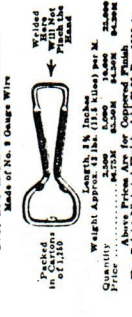
Wire Bottle Openers
Made of a special grade of steel wire. Advertising opportunity. Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 188 BOTTLE OPENER
Length 4 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 107 MIDGET BOTTLE OPENER
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



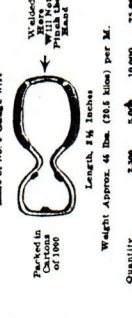
No. 13 EARLY WORK CALIFORNIA GULF
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 21 BATHING GEL
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 191 BOTTLE OPENER
Made of No. 1 Gauge Wire
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



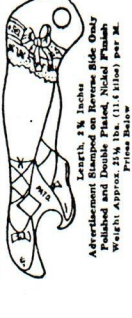
No. 206 BOTTLE OPENER
Without Advertisement
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



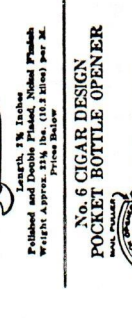
No. 127 MIDGET BOTTLE OPENER
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



No. 16 DANCER BOTTLE OPENER
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



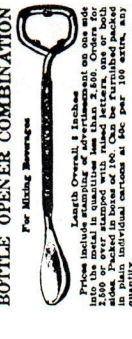
No. 5 EAGLE HEAD DESIGN POCKET BOTTLE OPENER
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



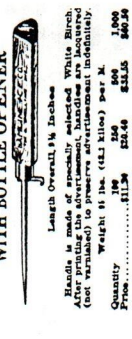
No. 186 Lockite BOTTLE STOPPER AND BOTTLE OPENER COMBINATION
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



No. 179 BEVERAGE SPOON & BOTTLE OPENER COMBINATION
For Mixing Beverages
Length Overall, 1 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00




No. 167 "NO ROLL" TRIANGULAR HANDLE ICE PICK WITH BOTTLE OPENER
Length Overall, 1 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



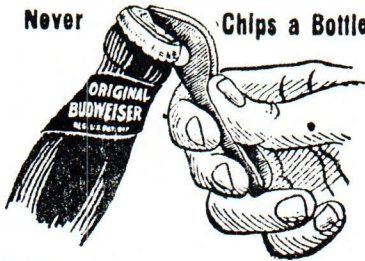
No. 1 "NEVER-CHIP" THE ONLY FLEXIBLE STATIONARY BOTTLE OPENER MADE
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



No. 2 "NEVER-CHIP" FLEXIBLE BOTTLE OPENER
Length 2 1/2 inches
Packed in boxes of 100.
Weight Approx. 1 1/2 lbs. (11.5 Kilos) per M.
Quantity 1000
Price \$100.00



Never Chips a Bottle



FIGHT PROHIBITION

Go after the Family Trade. This encourages true temperance. Once a woman uses our Metallic Opener, she will have no other because it works so easy. This is why the Openers go into the homes and stay there. Our main business is to sell Crown Corks. Openers are only a leader. This is why we offer them so low in price, either wire or metallic.



FULL SIZE OF OPENER. Note the large advertising space. Room for Trade-Mark.

Write for
FREE SAMPLES
Crowns or Openers

Faithfully Yours,
Wm. J. Farrell

We positively guarantee against leakage where our composition discs "Sealite" are used.

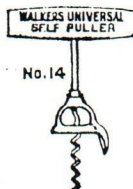
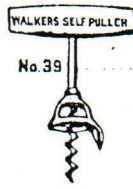
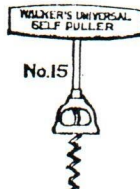
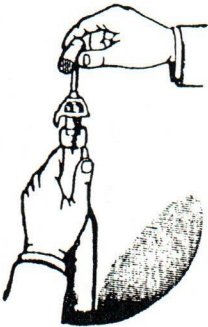
Product

While at the opener convention in St. Louis, I visited the Anheuser Busch archives and found the ads shown on this page and the next two in various publications. The sources are:

- Sealtite Fight Prohibition (Type G-5) - Nov., 1915 Western Brewer
- Walker's Self-Pulling Corkscrews - May, 1904 Western Brewer
- Walker's Quick and Easy Crown Openers - March, 1912 Western Brewer
- Williamson's Power Pocket Corkscrew - Dec., 1892 Western Brewer
- Arcade Cork Extractor - Sept. 15, 1894 Western Brewer
- A.W. Stephens Mfg. Co. B-21 and P-7 - Jan., 1916 Western Brewer
- Crown "Oriole" openers - August & Sept., 1915 Western Brewer
- Vaughan B-24, O-4, C-17, and E-11 - 1948 Brewers Digests.

.....Don Bull

See! You Don't
Have to Pull.
A Child Can Do It.



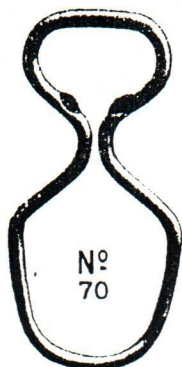
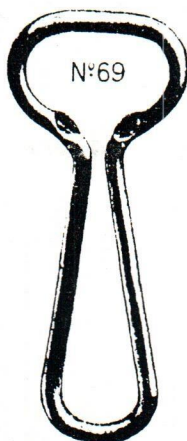
Walker's Self-Pulling Cork Screws

MADE OF CRUCIBLE STEEL, NICKEL PLATED.

EVERY ONE TESTED AND GUARANTEED. Several imitations on the market, but none as good. No. 16 and No. 17 pulls the corks, cuts the wires, removes Crowns, Seals and Aluminum Stoppers. Covers the greatest variety of work of any Cork Screws made, therefore it is the best advertisement. In quantities, advertisement finely printed on wood handles. Write for catalogue illustrating Cork Pullers and several other styles of Cork Screws.

MANUFACTURED
ONLY BY

ERIE SPECIALTY CO., Erie, Pa., U. S. A.



Walker's Quick and Easy Crown Openers

Patents Applied For

Removes caps without chipping bottles.

We emboss your card on openers, making a lasting advertisement.

Prices quoted according to quantity.

ERIE SPECIALTY CO., 503 TWELFTH ST., Erie, Pa.

The bar mounted corkscrew shown in the Arcade Manufacturing ad was patented by M. Redlinger of Freeport, Illinois. Patent No. 589,574 was issued Sept. 7, 1897.



Williamson's
POWER
POCKET
CORKSCREW
(PATENTED).
MADE FOR ADVERTISING.
COSTS LESS THAN A DIME.

Every
Corkscrew
Warranted.

Made from
Crucible
Steel,
Hardened
and
Tempered.

DIRECTIONS FOR USE:
When the second or short screw enters the cork, the pressure on the cork becomes so great as to turn it in the bottle. By continuing to turn the screw and pulling slightly, the cork will be as easily extracted as by the most expensive power screw.

Send for Illustrated Circular.

Open for use

C. T. WILLIAMSON WIRE NOVELTY CO., NEWARK, N. J.

ARCADE

CORK EXTRACTOR

With Perfect Bottle Holder and Wire Stripper.



BREAKS NO BOTTLES.
OPERATION QUICK, SURE AND EASY.

By compressing clamp, as shown in cut, bottle is held securely while cork is drawn, without fear of injury to operator.

FULLY WARRANTED.

Write for Prices and Descriptive Circulars.

MANUFACTURED BY

Arcade Manufacturing Co.
FREEPORT, ILL.

THE ORIGINAL



The Square Hole is an emergency Prestolite Wrench

If you are not familiar with this unique personal appeal advertisement, may we send you some "SHOW ME" samples? If you insist on

< PICNIC >

when ordering you will get a satisfactory article and full value for your money. Don't forget PICNIC, that protects you and us against inferior imitations.

FOR THE HOME

HERE'S ANOTHER GOOD ONE—Our No. 4 Always Handy Combination.



Lifts
Crown Caps

Removes
Seals

Takes Out
Aluminum
Stopper

Pulls Corks

SEND FOR SAMPLE

THIS POINT PERFORATES THE CAP

One of these Openers hung up in the kitchen beats a hundred of the other kind scattered on the cellar floor.

A. W. Stephens Mfg. Co.

Originators, Patentees
and Manufacturers
WALTHAM, MASS.

Now's the Time to Order Openers For Your Christmas Trade



Especially if you want the "Oriole" Embossed with your name or other wording thereon.

The demand for the "Oriole," both "Plain" and "Embossed," is outdistancing anything we have ever seen in Opener ordering, and the Christmas rush is going to tax even our extensive facilities to the utmost.

We will give you an estimate of the first and only cost of die, after which

The "Oriole" Embossed is 25c per gross.

The "Oriole" Plain is 22c per gross.

All prices f. o. b. Baltimore

An art bottle Opener, such as our "Art Silver Plated" or "Buckhorn," will be thoroughly appreciated by your discriminating trade; therefore, we suggest that you investigate our line NOW, in order that we may get your order to you in ample time for the holiday festivities.



The Crown
Cork and Seal Company
-Baltimore, U. S. A.



Working Day and Night

To Fill the Demands for
These Openers

EVERYBODY
seems to want

an "Oriole" or an "Oriole Plain" but we're mighty glad to say we have ample facilities to meet your Opener Requirements promptly.

Both Openers are flat, light, rigid and compact. The lugs enable Crowns to be removed by either an up or down motion and the tongue and groove construction eliminates pinching of finger or hand where the ends meet.

The "Oriole Embossed" can be lettered on either one or both sides with your name or other desired wording.

The "Oriole Plain" is priced at 22c per gross, F.O.B. Baltimore. After the die is made the "Oriole Embossed" is priced at 25c per gross, F. O. B. Baltimore.

Tell us the wording wanted and we will give you an estimate of the first and only cost of die.

In order that we may serve you promptly, see, write, wire or 'phone our local representative, nearest Branch or home office at once.



The Crown
Cork and Seal Company
Baltimore, U. S. A.



"TOPS" FOR TOPS

Vaughan's

BOTTLE OPENERS

No. 1 "NEVER CHIP"

Most popular stationary opener. Heavy steel, cadmium plated to prevent rust. Attaches to wall or bar with two screws furnished. Large area for stamped message on top surface.



NO. 1

No. 3 "NEVER SLIP"

Handy pocket opener. Special shank prevents slipping and injured fingers. Rugged, nickel plated steel. Note large area for stamped message.



NO. 3

Even in bottle openers, quality counts. And the outstanding quality of Vaughan's Bottle Openers has been the standard of perfection for many years. Your customers are entitled to the best... furnish them Vaughan's always.

Send for free catalog showing complete line of Vaughan's Bottle Openers and Advertising Specialties.

Vaughan

NOVELTY MFG. CO.

WORLD'S LARGEST MANUFACTURERS OF BOTTLE OPENERS AND CAN OPENERS
3211 CARROLL AVENUE CHICAGO 24, ILLINOIS

POPULAR EVERYWHERE

Vaughan's
BOTTLE OPENERS

For many years, leading brewers and bottlers have made Vaughan's Bottle Openers their first choice. That's because they can depend on Vaughan's for outstanding quality. Don't gamble with customer satisfaction... make your choice Vaughan's.

No. 277. Extra Heavy Duty Bottle Opener. Rugged, nickel plated steel. Solid grip allows generous space for stamped message.

No. 205. Made of tough No. 6 gauge steel wire with nickel plate or copper finish. Ample space for stamped lettering on grips.



277

205

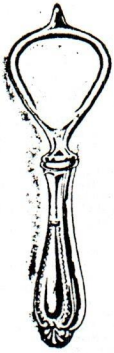
Send for free catalog showing complete line of Vaughan's Bottle Openers and Advertising Specialties.

Vaughan

WORLD'S LARGEST MANUFACTURERS OF
BOTTLE OPENERS AND CAN OPENERS

NOVELTY MFG. CO.

3211 CARROLL AVE., CHICAGO 24, ILL.



*Silver Plated
Crown Opener*

THE blade is made of drop forge steel with a plated silver handle in a beautiful chased Colonial design. This opener is an artistic achievement and makes an acceptable present. It is used for removing Crown Corks and Loop Seals.

Buckhorn Opener

THIS artistic and graceful device is made of the finest grade of drop forge steel. The handle is of buckhorn design. It makes a handsome present for special trade.



*Triple
Combination Opener*

WE especially recommend this opener as a most economical one, since it is equally serviceable for Crown-Corks, Aluminum Stoppers and Loop Seals. Made of strong metal with a rubber stopper on the handle with which the remaining contents of a partially emptied bottle may be securely corked.



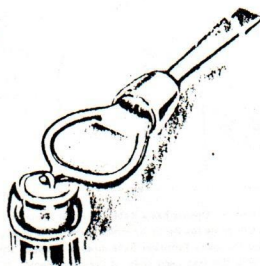
*Triple Combination
Opener removing
Aluminum Stopper*



*Triple Combination
Opener removing
Crown Cork*

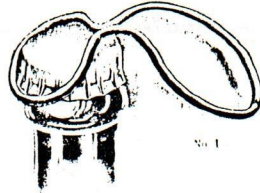


*Triple Combination
Opener removing
Loop Seal*



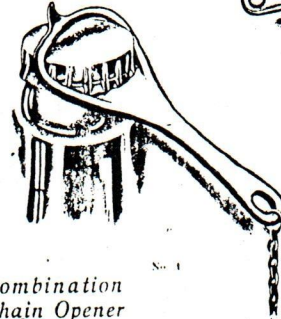
Crown Wire Opener

AN easily adjusted, simple opener for Crown Corks. It can be dropped over the head of bottle so that it may reach the consumer in a convenient manner. Specially adapted for shipping.



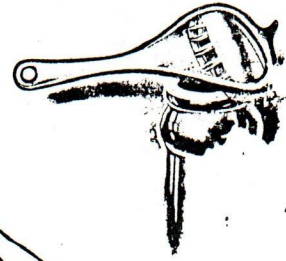
*Combination
Chain Opener*

THIS is a handsomely nicked finished opener for waiters and bartenders. Answers equally well for Crown Corks and Loop Seals. Fitted with long chain and button clasp for attachment to the person or securing to the wall.



*Combination
Plain Opener*

IS made of strong iron with a blade to remove Crown Corks and a spur on the top for removing Loop Seals. The handle is pierced for adjustment to key rings.



*Crown
Key Opener*

A CROWN bottle opener, exceedingly convenient and durable. Stamped in one piece from sheet steel. Similar in size and shaped like a door key, and can be easily carried on a key ring.



*Combination
Crown and
Seal Opener*

A CONVENIENT and durable opener for removing both Crown Corks and Loop Seals. The rubber stopper allows for sealing of partially emptied Crown bottles.



*Combination
Crown and
Seal Opener*

THE same as No. 17 as regards material and design, the only difference being in the rubber stopper which is especially adapted for use on Seal bottles.

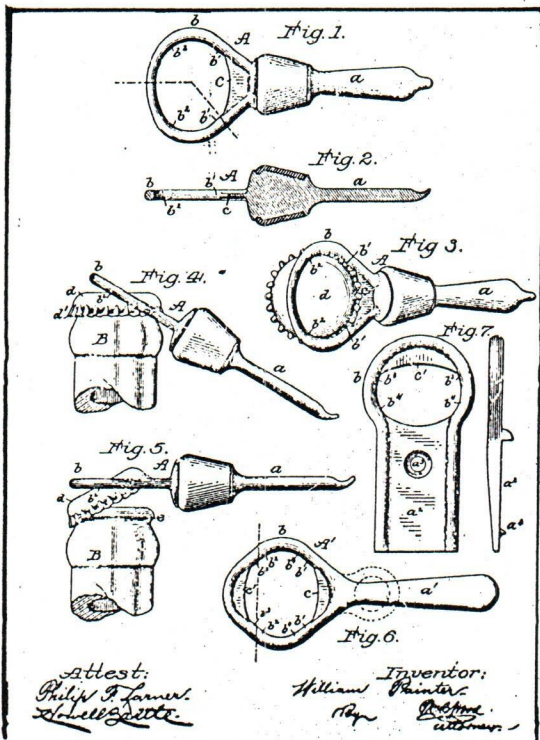
All openers shown here were manufactured by the Crown Cork & Seal Company prior to 1912. The opener in the upper left hand corner has been found with "Pfaff" (beer) on it and will appear in future discoveries. The point at the top of D type openers has previously been misidentified as a wire breaker. John Horn pointed out that this is a "loop seal remover" - the picture to the left confirms this.

UNITED STATES PATENT OFFICE.

WILLIAM PAINTER, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE CROWN CORK AND SEAL COMPANY, OF SAME PLACE.

CAPPED-BOTTLE OPENER.

SPECIFICATION forming part of Letters Patent No. 214,200, dated February 9, 1894.
 Application filed June 9, 1891. Serial No. 474,681. (No model.)



Attest:
 Philip J. Fenner,
 Notary Public.

Inventor:
 William Painter,
 By [Signature]

Crown Cork and Seal ads from the Sept. 15, 1894 issue of the Western Brewer. Patent from the U.S. Patent Office.

To all whom it may concern:
 Be it known that I, WILLIAM PAINTER, of Baltimore, in the State of Maryland, have invented certain new and useful improvements in Capped-Bottle Openers; and I do hereby declare that the following specification, taken in connection with the drawings furnished and forming a part of the same, is a clear, true, and complete description of my invention.

Bottle openers embodying my present invention are specially adapted for the removal of hard metal sealing caps from bottles having locking shoulders to which the caps have been so firmly applied as to require considerable force for effecting their detachment. My openers are however specially adapted to operate upon such caps as are provided with some kind of a projected edge with which the opener may be engaged so that it may be operated with leverage in wrenching or prying the cap from bottles.

My bottle opener essentially embodies a handle, having at one end thereof, a cap centering gage, and also a cap engaging lip, and however these three elements may be formed about substantially in line with the handle and the cap engaging lip, and the latter about substantially in line with the handle, so that when the opener is applied to a capped bottle, the gage will assure an appropriate bearing or fulcrum on top of the cap, with the lip hooked beneath or underlying a portion of the cap, and so enable the handle to serve as a lever for removing the cap from the bottle. Although without departing from my invention these three essential elements may be separately constructed and combined to form my bottle opener, they are more economically constructed integrally of iron or other suitably strong metal, as by molding or casting the opener in one piece, and it is in this form that my opener will be more particularly described.

Figures 1 and 2, illustrate one of my openers in a desirable form in side view, and central longitudinal section. Fig. 3, illustrates the opener applied to a cap in top view. Fig. 4 and 5, illustrate respectively, the opener applied to a capped bottle, and the same with the cap partially lifted. Fig. 6, illustrates one of my openers, provided with two cap engaging lips. Fig. 7, in two views, illustrates one of my openers adapted to be mounted on a table or counter.

The bottle opener A here shown embodies not only my present invention, but also certain features disclosed in Letters Patent No. 438,710, October 21, 1890, which not only enable this opener to be used for removing caps in inside loop seals as heretofore patented to me, but also enable the opener to be used as a temporary stopper, this latter feature being generally useful regardless of the character of the bottle sealing device employed. For the purposes of this specification, however, the handle a may be considered only as a handle, serving as a lever in connection with the centering gage b, and the cap engaging lip c. This centering gage b is in the form of an open loop, having lateral dimensions considerably less than the diameter of the cap, with which it is to be used, so that its two sides at b', b'', will be in engaging contact with the sides of a bottle cap, when the engaging lip c is beneath the detaching shoulder of the cap. Other portions of the centering gage, as at b', b'', engage in bearing contact with upper surfaces of the cap, and serve as fulcra during the operation of the opener. The cap engaging lip c is a well defined beveled surface substantially in line with the handle a, and therefore substantially central with respect of the centering gage, and when arranged in line with the axis of the handle a, the opener is supplied either side upward to a cap and be equally effective.

As shown in Figs. 3, 4, and 5, the bottle cap is in one of several forms of sealing caps heretofore patented to me, and when applied to a bottle b, having a locking shoulder as at e, with which the flange of the cap has been formed, the cap is engaged by the gage b, and the cap engaging lip c is required for detaching the cap. With such caps a projected edge is afforded for engagement by the bottle opener, the latter being equally effective whether said projected edge e is located at and afforded by the lower portion of the flange of the cap, or between said edge and the top of the cap, as in other forms of cap devised by me, which are also applied to and fastened upon bottle heads having the same locking shoulder e.

As shown in Figs. 3 and 4, when the opener A is placed in proper relation to the cap d, the engaging contacts b', b'', on the centering gage b, enable and assure a proper adjustment of the cap engaging lip c, with relation to, and underlying the projecting detaching edge or shoulder e', while the fulcrum contacts at b', b'', on said gage are in bearing contact with the top of the cap, so that when the handle is raised as in Fig. 5, the cap will be prised from the bottle.

Although the opener A is in what I deem to be its best form, because it is adapted for use with both inside seals and metallic or crown sealing caps, as well as for use as a temporary stopper, it is to be distinctly understood that my present invention relates solely to the handle, the centering gage and the cap engaging lip, and that the latter may be varied as to its location, without departure from my invention, so that the lever movement of the handle may be reversed, as for instance, with the opener A', as shown in Fig. 6. In this opener the handle a' is a mere handle. The centering gage b' is substantially as before described with respect of the gaging contacts b', b'', and the cap engaging lip c, the same as in the opener A, so that with metal caps this opener can be operated precisely like the other if desired. This opener has however a cap engaging lip c' substantially in line with the handle a', and is cap detachable by the side of the loop, and for co-operating therewith this centering gage has appropriate gaging contacts b', b'', and fulcrum contacts b', b'', so that when applied to a cap with the lip c' underlying a projected portion of a metal cap the handle a' will be inclined upward or away from the bottle, and cap detachable will be effected by forcing the handle downwardly instead of upwardly as with the opener A.

With my openers composed of plate steel, the handle may be quite short, and the centering gage may terminate near the fulcrum point, all as indicated in dotted lines in Fig. 4. When my openers are to be used as fulcra on benches or counters, a wide flat handle is generally desirable as shown at a' in Fig. 7. A screw hole with a transverse web at d' and puncturing points on the rear side, enable the opener to be firmly mounted for service. The centering gage, with its gaging contacts b', b'', and fulcrum contacts b', b'', are as before described, and the same is true of the cap engaging lip c'. It will be obvious that it is only the central portion of either of the lips shown, that need actually engage with a sealing cap, and hence it will be seen that the edge outline of said lip may be widely varied without impairing its cap engaging capacity.

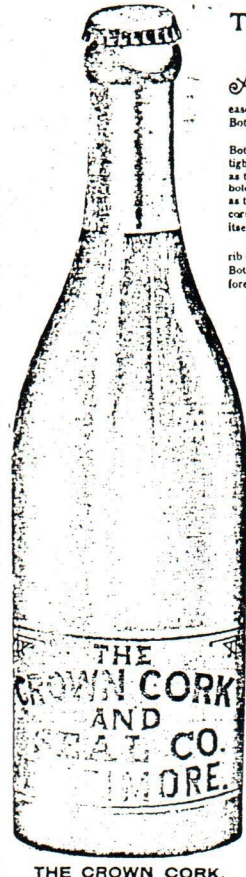
It will be obvious that while it is highly conducive to efficiency to have two gaging contacts, one at each side of the cap engaging lip, either one of said gaging contacts may be relied upon for proper service; as, for instance, if the other contact and one of the fulcrum contacts be removed, as indicated by the dotted line in Fig. 1.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A capped bottle opener consisting of a suitable handle, provided with a cap engaging lip adapted to underlie a portion of a cap applied bottle sealing cap, and also having a centering gage affording gaging contact with the side of the cap adjacent to the engaging lip, and still further affording fulcrum contact for enabling bearing engagement with the upper portion or top of the cap, substantially as described.

WILLIAM PAINTER.
 Withitness:
 WALLACE ROSS,
 T. R. McALEXANDER.

THE CROWN CORK SYSTEM.



The Most Perfect System of Bottle Stopping Ever Invented.

A SIMPLE, cheap and effective single-use Stopper, far superior to patent stoppers or corks in tightness, keeping qualities, security, cleanliness and purity of goods, ease of opening, and handsome, elegant appearance. Perfectly adapted to all kinds of Bottled Beverages, whether fermented, aerated or otherwise.

THE CROWN CORK.—The Crown Cork System uses a thin Cork Disk to close the Bottle; it is forced on by powerful pressure, and the Corrugated Tin Crown locks it tightly in place. The inner surface of the Crown, between tin and cork, is so protected as to prevent all possibility of metal coming in contact with the beverage through any holes there may be in the cork near its center. The use of cork settles every question as to taint or injury to goods, even though bottled for years, and in any climate. The corrugations render the Crown expandable and contractible, so that it readily adjusts itself to varying sizes of Bottle Heads.

THE CROWN BOTTLE.—This differs only from ordinary Cork Bottles in having a small rim or shoulder near the top of the head, outside; they cost no more than ordinary Cork Bottles, and can be used with the ordinary size of Cork, if desired. Bottles with shoulders readily see that in adopting the Crown System they do not tie themselves irrevocably to the Crown Cork and Seal Co., because bottles made for the Crown are equally adapted to ordinary corks, should it become necessary or desirable to use them. Crown Bottles are salable everywhere as "Empties," same as common Cork Bottles. This is an important advantage of the System.

THE CROWN CORK IS APPLIED TO THE BOTTLE simply by direct powerful pressure. The Machine for applying it forces the Cork Disk solidly upon the Bottle Top, and simultaneously crowds inwardly the corrugated flange of the Crown, causing, by pressure on the outer corrugations, the inner corrugations to grasp firmly, at 44 points, the Locking Rib on the Bottle Head, thus holding the Cork Disk in solid contact with it. The sectional view, next page, shows this locking effect, and also how the Cork Disk laps over the corrugated surface of the Bottle Top, forming a wide, efficient joint. The large cut shows the handsome appearance of the Bottle with Crown.

THE MACHINES are extremely simple, and the Crowning of the Bottle quick, easy and effective. There are no complications or delicate mechanisms about either the Crown Beer or Soda machines; they are free from all adjustments, durable, and it is almost impossible for them to get out of order.

ADVANTAGES.—Applicable to all beverages, through its infallible tightness under any possible internal pressure; its great holding power, and ease of opening. Will stand internal pressure of over 150 pounds to the square inch, and in steaming Beer requires no wires or extraneous appliances.

It is practically impossible to disturb or loosen the Crown in packing or shipping bottled goods. Notwithstanding its great holding power it is easy to open (see following pages).

Chipping of the Bottle at the mouth does not prevent making a tight stopper by the Crown Cork System. A Bottle must be so badly chipped that it is not fit to use with an ordinary cork, to render it non-usable with the Crown. The Crown Cork absolutely prevents contamination of the contents of the Bottle by the stopper, no matter how long bottled or in what climate used. The Crown is far tighter and more reliable than the best and highest priced corks made, and will not leak gas under any circumstances.

The System is cheap, although there is no suggestion of "cheapness" in its appearance, and the Crown gives a handsome finish without the use of foil.

IN SHORT, the Crown Cork System, having everything to recommend and nothing to condemn it, has met the unqualified approbation of many large concerns in the trade who have examined into its merits, and a considerable number have already placed large orders for Crown Bottles and Machines, and are now using them with great success. They express their intention of using the Crown exclusively.

All Crown Bottles must be finished with the Standard Finishing Tools, made by The Crown Cork and Seal Co. No other tools must be used. This is a positive requirement, not only for the protection of users of the Crown System, but of this Company as well. Any Bottle Factory can make Crown Bottles by applying to the Company for Standard Crown Tools.

THE CROWN CORK SYSTEM.

HOW TO OPEN CROWN BOTTLES.

THE central cut shows the Crown taken off with the Regular Opener, which is quick and easy, removing the Crown with one movement. Catch the Blade in under the edge of Crown, as shown in upper left-hand cut, and then pry upward. The best way is to grasp the Bottle Head with the Opener in the hand, as in large cut. In this way the Crown comes off in the hand.

NOTICE.
 WITH the Regular Opener you pry upward, lifting the Crown at once. With any other instrument this cannot be done; you must pry downward instead of upward, and loosen the rim by prying it outwardly, all around, as described.

THE regular Opener has a Rubber Stopper as shown, for partly full Bottles. If you have no Stopper Opener, you can replace the Crown on the Bottle by grasping it with the hand; it makes a fairly tight temporary Stopper, when thus used.

The Company furnishes forty gross of Stopper Openers (which can be used for the Seal as well as for the Crown) without charge, with the first 1,000 gross of Crown ordered. The object of this is to enable the Trade to supply the Opener liberally to users of Crown goods.

STANDARD, PRICE LIST AND SAMPLES OF BOTTLES BY APPLICATION.

...everything you always wanted to know about the type S-1 bottle-bottle opener....The article is from the July, 1964 issue of *Brewers Digest*. (Courtesy of John Hyland).



On the left is the standard non-returnable bottle. On the right is the new Burger "Opener Bottle."

Burger Introduces New

"OPENER BOTTLE"

THEIR efforts to provide consumers with the convenience of self-opening bottles, the brewers have looked to the crown manufacturers for innovations in the crowns which would provide this convenience.

The Burger Brewing Co., Cincinnati, Ohio, has taken a different approach and as a result the company last month introduced a new bottle for its beer which has an "opener" built into the bottom of the bottle. Called the "Opener Bottle", it is manufactured by the Fairmount Glass Co., a division of the Inland Container Corp., Indianapolis, Ind.,

which is the licensing agent for the Future Bottle Co., Aberdeen, S.Dak., patent owners.

The bottle itself is a modified version of the G.C.M.I. #168 non-returnable bottle. In addition to the opener in the bottom of the bottle, the "neck" of the bottle has been sufficiently squared so as to allow a pressure base as one bottle is used to open another bottle.

A standard crown is used on the bottle and no modification of filling or crowning equipment are required. B. J. Herrington, vice-president, marketing, for the Burger Brewing Co., reports that consumer accept-

ance of the new "Opener Bottle" was immediate and overwhelming. "While the novelty of the self-opener aspect of the bottle undoubtedly has had much to do with the success of the bottle, the ease of opening and the safety in opening takes the new bottle completely out of the ' gimmick ' class and promise a continuing consumer demand for the bottle," he said.

The Burger Brewing Co., one of the most progressive of the nation's regional breweries, markets its product in Ohio, Indiana, Kentucky, West Virginia, Virginia, Georgia, Tennessee, Alabama and the Carolinas. **END**

FAIRMOUNT GLASS CORPORATION

Manufacturers of FLINT AND AMBER GLASS CONTAINERS

SALES OFFICES: NEW YORK CITY, CLEVELAND, ST. LOUIS, DETROIT, LOUISVILLE, ST. LOUIS, MEMPHIS, CINCINNATI. TELEPHONE: STATE 8-2811, AREA CODE 21.

INDIANAPOLIS 7, IND.

October 29, 1964

Dear Brewery Executive:

Enclosed is information on a new non-returnable bottle which requires no opener, yet allows you to use regular crowns and your present capping equipment. The "Twin-Opener" bottle, developed by Fairmount Glass Company, has been accepted by consumers for its convenience and by brewers for its advantages in the brewery.

The enclosed "Report" tells you of the many advantages of the bottle. Technical data on the new bottle are spelled out in the reprint from "Brewers Digest" magazine.

Fairmount Glass Company is granting licenses to bottle manufacturers to produce this bottle. For more information, contact your bottle supplier or write Fairmount Glass Company, division of Inland Container Corporation, Indianapolis, Indiana.

Sincerely,

FAIRMOUNT GLASS COMPANY

Cedric Rau
Cedric Rau
Vice President

Technical Aspects of the New "Opener Bottle"

By Cedric Rau,

Fairmount Glass Co., a division of Inland Container Corp., Indianapolis, Ind.

ONCE a package has fulfilled its primary function of providing maximum protection to its contents against external influences, the next steps in its further development usually aim at incorporating a high degree of marketability. In beer packaging the recent emphasis on convenience features has led to a number of innovations, relative to self-opening features. There have thus appeared in rapid succession several variants of bottle crowns that can be removed by the consumer without the aid of a bottle opener.

The most recent entry into the field of self-opening beverage containers is a new patented non-returnable beer bottle with an opener design incorporated in its base. It is being produced by the Fairmount Glass Co., a division of Inland Container Corp., and its initial and highly successful introduction to the consumer market by the Burger Brewing Co. of Cincinnati, Ohio, has already been described in the July issue (page 20) of *Brewers Digest*.

The all-glass bottle has a self-contained opening design in its base. By engaging the opening ledge of one bottle with the crown of another, the crown is easily removed by applying a minimum amount of downward pressure on the first bottle. Carefully controlled laboratory tests have shown that the average pressure re-

quired to open a bottle is within the range of six to eight pounds, which is about the same as that needed when using conventional bottle openers.

Figure 1 illustrates the simple manner in which the opening feature is used by the consumer. As can be seen, the crown is readily pried off by aligning the heel of one bottle with its opener indentation against the crown rim of the other bottle and exerting a light downward pressure. The crown is removed undistorted and can, if desired, be transplanted to the partially empty bottle to preserve carbonation. Since the new bottle is of standard dimensions and has a regular crown applied, it is handled in the brewery with standard filling and crowning equipment and at normal operating speeds.

To make the opener bottle workable, two major bottle design modifications had to be incorporated, namely, the pry-off indentation in the base of the bottle, and the alteration in the shoulder contour to provide the necessary leverage point. The final design adopted was evolved from a series of 18 design modifications, each subjected to extensive testing for strength, thermal shock resistance, pressure and impact strengths, ease of handling by consumer, etc. The success of the final design was assured by the application

of a new, permanent glass coating which imparted to the bottles sufficient lubricity in both wet and dry state to prevent binding at the glass-to-glass contact point during the opening operation. The entire project, since it had emerged from the initial idea stage, required two years to bring to fruition.

The final opener bottle, which is of the same size as the standard non-returnable handy bottle (designated by G.C.M.I. as 168-14), was subjected to an extensive series of tests, both in the bottle manufacturer's plant and by an independent testing laboratory. The results clearly show that the new design is in all major aspects comparable to the standard bottle as evaluated by tests that are normally applied to bottles.

Thermal shock tests measured the resistance of the opener bottle to two rather broad temperature differentials; namely, 100° and 120° F. Each sample comprised 20 bottles which were tested without any previous abuse treatment, thereby simulating the condition in which new bottles would arrive at the filling line. No breakage was recorded at the 100° F. differential, and two bottles out of 20 broke at the 120° F. differential. These results are interpreted as indicating excellent thermal shock properties and well in keeping with those obtained in the standard non-returnable bottle of the 168-14 design.

Vertical load tests were applied to the opener bottle following an abrasion treatment which produced surface damage equivalent to that resulting from one trip through the filling line. The standard non-returnable bottle, subjected to the same abrasion treatment, served as a control. The opener bottle yielded average strengths of 1730 lbs. of direct



Above: One of the point-of-sale pieces for the "Opener Bottle."
Left: A stick-over overlay which was used on one end of the cartons for the introduction of the new bottle.

load, which fell well within the range obtained with the standard control bottle. Thus, here again, the new bottle compared favorably with normally accepted values.

Heel impact strength was determined on the new and the standard bottle designs after each had been subjected to abrasion to simulate damage equivalent to that from one trip through the filler. The results showed an average impact strength of 41 inches per second for the opener bottle, and 42 inches per second for the standard control bottle, thus revealing comparable strengths for both designs.

Pressure tests were carried out after creating several different surface conditions, including bottles as received, bottles that had been abraded to simulate one trip through the filling line, and bottles that had received strong abrasion on the bottom contact surface to create small checks in the surface. The average value for the opener bottle, expressed in psi, were 261 for new unused bottles, 221 for bottles with bottom surface abrasions, and 269 for bottles with simulated filling line damage.

The corresponding values for the standard control bottle were 260, 246, and 277. Here again, the values show comparable levels and, when it is considered that a value of 150 psi. is accepted as meeting safety requirements, both types of bottle show a considerable safety margin.

New Coating
A recent development in glass coating, patented by the Hull Bros. Co. of Muncie, Ind., makes use of stannic chloride, which is a fuming caustic compound. In practice, the bottles, while still very hot, pass through a fuming chamber, filled with stannic chloride fumes, on their way to the annealing oven. The stannic chloride is fused into the glass surface to form an essentially monomolecular coating of extreme hardness and a high degree of lubricity under both wet and dry conditions. By forming this extremely hard exterior surface film, this coating treatment also increases greatly the structural strength of the container, both in respect to its impact and its pressure resistance. The high degree of lubricity of the external surface reduce the susceptibility of the bottle to scuffing and surface scratches, the principal causes for the development of structural weaknesses.

The effectiveness of the permanent stannic chloride coating as of standard water-soluble coatings used by

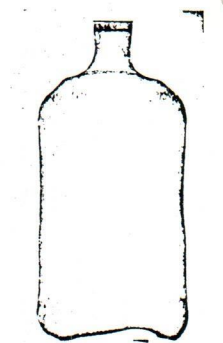


Figure 2
forced leverage point. Yet, the ledge angle is such that no hazard of chipping or spalling of the outer edge is created. The durability of this ledge is exemplified by the uncapping test just mentioned in which one bottle withstood 1,200 such operations before losing its effectiveness. Hence, the danger of chipping during normal bottle use is for all practical purposes non-existent.

Fairmount is the licensing agent for the new container and is prepared to follow a program of granting licenses to glass companies for the manufacture and sale of this package. **END**

Figure 1

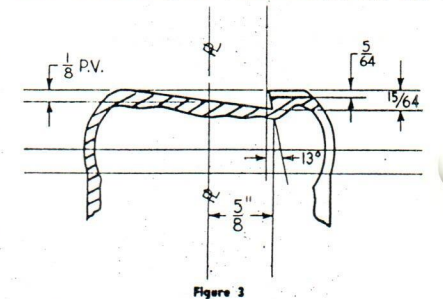
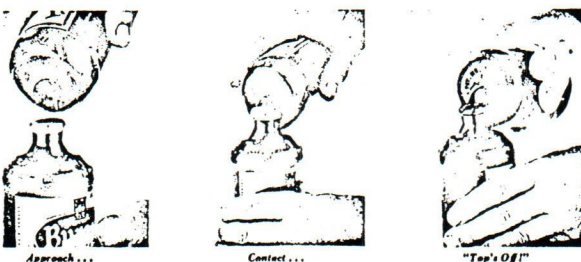


Figure 3

"No openers" - as submitted by Art Santen, 6126 McPherson St., St. Louis, MO 63112

This is a proposed N.O. List (No Opener). If you disagree with the list, let me know right away. The next JFO will contain a permanent N.O. List. To disagree with this list, write to me (Art Santen) and list the opener and your objection to my reasons. Remember the I-12o and I-12p are 1/16" shorter than the I-13a and I-13b. If there are any other D-5 with short handle (D-9), let me know. In listings, all words and numbers should be included. I can't figure out the I-17 #132 & #133 Stroh without the #26. Do they exist? Send me the information.

<u>N.O.</u>	<u>Real</u>	<u>Reason</u>
B-4-3	B-33-1	Larger hole
B-14-10		Add <u>Established</u> before 1877
B-14-21	B-14-90	All printing on one side
B-18-10		Add <u>Drink</u>
C-4-4	C-28-3	Square hole in wrong place
C-5-4	C-28-1	Square hole in end
C-12-11	C-13-134	Cap lifter (fret) is 3/8" wide; neck is narrower
C-12-37		<u>Beer</u> not Beers
C-12-48	C-13-176	Cap lifter (fret) is 3/8" wide; neck is narrower
C-13-152	C-13-190	Printing on both sides
C-15-8	C-15-16	Printing on both sides
C-15-11		Add <u>Beer</u> after Utica Club
D-1-13	D-1-1	A.B.B. has periods after each letter
D-5-3	D-9-1	Short Shank
D-5-7	D-9-4	Short Shank
D-5-8	D-9-6	Short Shank
D-5-10	D-9-9	Short Shank
D-5-15	D-9-11	Short Shank
D-5-18	D-9-4	Short Shank
D-5-19	D-9-UL	Short Shank
E-2-5	E-3-8	Sides rounded
E-4-92	E-4-150/199	Malt beers on one opener; Malt brews on other
E-10-41		Twice on both sides
E-10-52	E-14-332	Ref. JFO #8, Page 3, the lifter on E-10 is a square shape
E-10-56	E-10-115	<u>Beers</u> not Beer
E-10-100	E-14-547	Ref. JFO #8, Page 3, E-14 Variations - E
E-10-115	E-14-333	Ref. JFO #8, Page 3
E-10-129	E-14-133	Ref. JFO #8, Page 3, E-14 Variations - E
E-10-123	E-10-75	Identical Wording
E-12-16	E-14-555	Ref. JFO #8, Page 3, E-14 Variations - F
E-13-1	E-14-332	All I have seen have 3 frets
E-14-27	E-14-473	Twice on both sides
E-14-112	E-10-79	Never seen by Kansas City Collector
E-14-156	E-14-514	Twice on both sides
E-14-161	E-14-515	Same on reverse
E-14-191	E-14-523	Twice on both sides
E-14-211	E-13-16	Two frets only
E-14-213	E-14-419	Twice on both sides
E-14-255	E-14-547	Twice on both sides
E-14-271	E-14-555	Twice on both sides
E-14-310		Not St. Louis Brew; is it Potosi Brew?
E-14-398	E-14-519	Same on reverse
E-14-556	E-14-557	Same on reverse
F-9-4		Will the person who submitted this reconfirm the misspelled Guenther and any other printing on it?
H-6-7		Delete word <u>Of</u>
I-3-3	I-3-4	Same on reverse
I-3-13	I-3-29	Same on reverse
I-3-14	I-3-23	Same on reverse
I-4-24	I-4-53	Extra Dry twice
I-7-19	I-7-52	Corrected wording

over.....

"No openers" - as submitted by Art Santen.....continued.....

<u>N.O.</u>	<u>Real</u>	<u>Reason</u>
I-11-20		No I-11 with Bud on one side & A.B. on other side
I-11-24	I-11-162	Same on reverse
I-11-53	I-11-236	Same on reverse
I-11-66	I-11-246	Same on reverse
I-11-67		Add <u>/Same</u>
I-11-116	I-11-206	Add <u>Beautiful</u>
I-11-173	I-11-233	<u>Falstaff</u> twice
I-11-217	I-12-91	Ref. JFO #8, Page 7, 3 5/8" long
I-11-229	I-11-6	Same on reverse
I-11-235		Add <u>/Falstaff the choicest product of the brewers art</u>
I-11-258	I-11-110	Same words
I-12-44	I-12-121	Add <u>For opening</u>
I-12-22	I-12-110	Reverse - naturally better
I-12-49		Add <u>Beer</u> after "its better"
I-12-61	I-12-127	Add <u>Lager</u> after Lucky
I-12-93	I-12-169	Add <u>Beer</u> after Premium
I-12-159	I-12-127	Same words
I-13-13	I-12-110	Ref. JFO #8, Page 7; I-12o, I-12p
I-13-44	I-12-143	Ref. JFO #8, Page 7; I-12o, I-12p
I-13-43	I-12-90	Ref. JFO #8, Page 7; I-12o, I-12p
I-13-79		All Falstaff opener have other printing on it
I-13-73	I-12-143	Ref. JFO #8, Page 7; I-12o, I-12p
I-13-80	I-12-110	Ref. JFO #8, Page 7; I-12o, I-12p
I-13-16	I-13-83	Add <u>Beer</u>
I-14-30	I-13-11	Wrong length
I-15-42		St. Louis club has never seen it without shield
I-16-34	I-17-122	Wrong Length
I-16-35	I-17-123	Wrong Length
I-17-34	I-17-157	Reverse plain
I-17-48		<u>Booster</u> not Rooster
I-17-68		<u>Beer & Ale</u> not Ale & Beer
I-17-90		<u>Penna.</u> not Pa.
I-17-117	I-17-232	No Schmidt on reverse side
I-17-150		St. Louis Club has never seen a I-17 Bud
I-17-157		Add <u>Falstaff</u> in shield
I-17-184	I-17-222	Add <u>Oertels '92 Beer</u>
J-3-1	J-3-16	Add <u>/Same</u>
J-4-6	J-3-3	Wrong Length
J-4-7		No J-3 Falstaff have state name after city
J-4-14	J-3-24	Wrong Length
J-4-15	J-3-4	Wrong Length
J-5-11	J-5-55	Missing the State behind the city names
J-5-75	J-5-77	All J-5 Falstaff have P.Q.F.B. on reverse
J-5-76	J-5-78	All J-5 Falstaff have P.Q.F.B. on reverse
M-23-2		Never seen, whoever sent it in please confirm and add any other words
M-29-10	M-30-UL	Flat red tip
O-5-2	O-5-17	Add <u>Beer</u>
O-5-4	O-5-19	Delete <u>Beer</u>
O-5-12	O-5-9	Same words
P-10-7	P-10-23	All words are listed
P-10-11		My mistake, I had a Lemp Shield but could not read it - assumed it was Falstaff

Submit objections to this list to Art Santen, 6126 McPherson St., St. Louis, MO 63112

The above material is as submitted by Art Santen and is not necessarily the opinion of "Just for Openers." Comments from subscribers as to whether they wish this section of JFO continued or any refinements they might suggest to the system will be welcome.