Blake-Hart: The Square Milk Bottles

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Neither Irva J. Blake nor Harry N. Hart was a bottle manufacturer. Although the two remained in separate businesses, they joined forces to invent a square milk bottle that they patented on July 12, 1927 (Giarde 1980:16). Their containers were not the first square milk bottles; nevertheless, they were ahead of their time. Square milk bottles did not become successful in the long term until the mid-1940s.

Hart was a restaurant owner, while Blake operated a Sacramento dairy, and the pair formed a short-lived distribution company as a sales outlet for their bottles. Even though both designers used the bottles in their respective businesses, the invention never achieved the popularity that Blake and Hart had envisioned. By the late 1920s, the square bottles had again vanished from the dairy shelves.

Histories

Irva J. Blake: Blake’s Dairy, Sacramento, California (1919-1929)

Irva J. Blake and his father, Charles T. Blake, first made the news in the Sacramento Star on July 25, 1908, when police arrested Harbor Master C.T. Blake and his son, Irva, after a fistfight with A. Fay and his brother, the owners of the steamer Weitchpec, the day before. The reporter noted that “black eyes and scratched faces were evenly distributed” even though Fay felt disposed to seek legal redress. The elder Blake, who wore a “beautifully painted optic as the result of the encounter,” claimed that Fay “started the row by applying epithets to him while landing their boat at the city wharf.” At one point, according to Blake, the “younger Fay passed ‘the fighting word,’ and he landed.” The reporter claimed that it was “a lively mix while it lasted.”
Although his obituary claimed that Irva J. Blake moved to Sacramento in 1900 and entered the dairy business in 1921 (Sacramento Bee 5/5/1960), the 1910 census labeled his occupation as “Transportation Company,” but he was first listed in the city directory in 1916 as a salesman for the Prudential Insurance Agency and was a traveling salesman by 1918. At some point during the second half of the year, Charles T. Blake and his son, Irva J. Blake, had opened the Grand Royal Ice Cream Parlor at 1116 7th St. under the style of Blake & Son. The directory listed their goods as “Cottage Cheese Butter Milk Poultry Feed.” The 1920 census listed Blake as “Merchant / Ice Cream.”

According to the December 14, 1918, edition of the Sacramento Bee, C.T. Blake had moved into the property at 2008 N St. when the Northern California Milk Producers’ Assn. vacated that location because of complaints from the neighboring residents and businesses. Blake had claimed that the local people would not object to his business, but they did, so Blake was given 30 days to find a new location, creating the move to 1720 C St. The N St. occupation almost certainly was the beginning of Blake’s Dairy.

On October 11, 1919, the Sacramento Star interviewed Charles Blake about his dispute with his former milk supplier (although the paper called him “W.C. Blake): “Blake, who conducts an establishment at 1720 C-st, has declared war on the Northern Calif. Milk Producers’ Ass’n. Blake formerly bought skim and whole milk through the association. He sold the skim milk to bakeries and ice cream manufacturers.” When the association raised its prices, Blake declared that the “increase was intended to put me out of business.” Claiming that it would “be impossible to make any profit at the new rate,” Blake installed his own cream separator and bought milk “directly from the farmers.”

Although Blake & Son received a permit on November 1 to add a $1,400 addition to the dairy, the Sacramento Bee announced on December 29, 1919, that the Consumers’ Independent Milk Co., headed by Mrs. C.D. Webster, took over the dairy, “formerly conducted by C.T. Blake” to continue the price war against “the alleged milk trust.” On March 8, 1920, the

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1 Although this did not hit the news until October, buying the cream separator almost certainly signaled the beginning of Blake’s Dairy – apparently actually a creamery – sometime during the first half of 1919. A dairy raises cattle for milking; a creamery buys milk from dairies, processing cream, skim milk, butter, etc.
Sacramento Star continued this almost adventure-novel-like saga, when it reported that Charles T. Blake, “proprietor of the Consumers’ Independent Milk Co.,” complained that Mrs. C.D. Webster was “the paid agent of the Central California Creameries and Alpine Milk Co.” She had joined Blake supposedly to help in his fight against the larger combine. According to Blake:

four months ago, Frank Glass put about $3000 into Blake’s business, and induced him to change the name of the plant from Blake & Sons to the Consumers’ Independent Milk co [sic]. At this time, Glass admitted he was paid by the “allied interests,” says Blake.

Hired to look after Glass’s interests, Mrs. Webster employed Harry Holman, “formerly of the California Milk Producers’ ass’n, as a ‘stool pigeon,’” – as reported by Blake. When Mrs. Webster attempted to replace Blake, however, he replied that he was “still the proprietor of the place” and refused to leave. Instead, he fired Webster and Holman. In view of Blake’s pugilistic accomplishments (see the 1908 fistfight story above), the two were probably not inclined to argue.

The Star added on March 9 that Mrs. Webster retaliated, obtaining a temporary injunction against the Blakes, forbidding them entrance to the plant, claiming that the senior Blake had “assigned their interest in the plant to her on December 8, 1919, together with the lease of the plant, and she had employed them from that time on.” Although the papers remained quiet about the saga for the next five months, the Sacramento Bee took up the account on August 11 and 18, when it described the process of bankruptcy for Consumers’ Independent Milk Co. It was somewhat anticlimactic that the Blakes regained control, and the firm was once again Blake’s Dairy by December 30. Charles T. Blake died on February 28, 1924, after a short illness at the age of 62.

In an interview published in the Sacramento Bee on August 22, 1925, Blake described the sequence of events (probably apocryphal) leading to the development of the square milk bottle:

It took seven years to develop idea and two years more a glass factory could be persuaded to make one for us. . . . The invention started with a conference I had
with the Harts. They were complaining of the breakable problem, and asked if there weren’t some way to obviate the it. I suggested an old idea of mine about a square bottle. They liked the idea and told me to work it up.

Seven years to develop and two more years to convince a glass house would make nine years prior to the initial sale of the bottles in 1925 – placing the meeting in 1916, but Blake did not enter the dairy (actually creamery) business until early 1919. A conference five years earlier was highly unlikely. The Harts would have asked Blake for advice only if they bought their milk/cream from him.

Blake and the Harts had their square milk bottle on sale in 1925, and Blake used them at his dairy (see the section on Containers and Marks below for more about the actual patent – Figure 1). By the 1925 city directory ad, the slogan on Blake’s square bottles was “Milk that is Milk” (Figure 2). Blake claimed to be the first ice cream firm to pack the product in “hermetically sealed tin cans” – that he patented – in 1927. The following year, he registered two brands with the State of California – BLAKE’S DAIRY and BLAKES, SACRAMENTO “on all milk cans owned by us and all containers so branded must not be used by others without our written permission” (Sacramento Bee 2/14/1927; 10/10/1928).

On March 8, 1929, the Sacramento Bee announced that “Blake’s Dairy in Sacramento and its retail store in North Sacramento, Roseville, Chico, and Oroville” had been sold to the Golden State Milk Products Co. for $150,000, adding that “Blake will remain within the milk business in Sacramento as an executive of the Golden State concern.” According to the Bee of August 7, 1930, Golden State reorganized as the Golden State Company Ltd. The business continued to use the Blake-Hart square milk bottles – at least for the first years (Figure 3).
**Blake’s Ice Cream Co., Sacramento, California (1931-1959)**

On Monday, December 22, 1930, the *Sacramento Bee* announced that Fred Keiser’s Market Spot had its grand opening that day at 28th & Y Streets (Figure 4). However, on April 2 of the next year, Keiser sold the Market Spot to Irva Blake. Blake also called the place the Market Spot Dairy. By 1937, that location was called Blake’s Dairy Spot, with the Market Spot Dairy moved to 4th & E. Marysville in North Sacramento, but he moved to 5311 Franklin Blvd. in 1950, calling the new operation Blake’s Ice Cream Co. By 1953 (probably from the beginning of the move), he sold Blake’s Mello-ine – imitation ice cream – as well as the real thing. But, selling both violated local regulations. On April 7, 1954, the *Bee* reported that the court enjoined Blake to stop selling real ice cream as long as he continued selling imitation ice cream. He chose to continue Mello-line.

By 1956, Blake had even renamed the business as Blake’s Mello-line Co. The *Bee* reported a fire at Blake’s Ice Cream Co. on August 9, 1959, although it was not severe – estimated by the fire chief as over $500 damage. The article was more concerned over the chief’s burned finger. But, that may have heralded the end of the ice cream business. Irva James Blake died of a heart attack on April 3, 1960, at the age of 72.

**Harry H. Hart: Hart’s Lunch, Sacramento, California (1912-1965)**

Harry H. Hart’s obituary in the *Sacramento Bee* for June 1, 1965, claimed that Hart came to Sacramento in 1912 with brother William S. Hart. The “arrived in the city with a combined capital of $2,800 and opened a lunchroom at 1110 8th Street” (Figure 5). The June 19, 1925, edition of the *Bee* added that “Hart’s Lunch is now a California Institution, with an
establishment in Fresno, another in Stockton, and three in Sacramento with Hart’s New Cafeteria at 1016 Tenth Street soon to be opened.”

Hart’s trademark was a heart outline, surrounding the word “Hart’s.” His motto was “The Sign of a Good Place to Eat,” and he had the slogan along with his trademark embossed on some of the milk bottles used in his restaurants (Figure 6). Another slogan was “The Finest Dairy Lunch in the West,” but he apparently did not use that one on bottles. Like Blake, Hart used the square bottles that the pair had designed (Dairy Antiques & Linda 2013).

Apparently, the Harts sold near beers throughout Prohibition. In an ad in the August 4, 1934, edition of the *Sacramento Bee*, H.H. Hart bragged that “Buffalo and Gilt Edge are Our Best Sellers,” adding that “so many say when drinking Buffalo or Ruhstaller’s Gilt Edge, ‘Why, that tastes like real beer’” (Figure 7). Although William retired in 1945, Harry remained active until his death at the age of 74 on April 30, 1965.

**Blake-Harts Products Co., Sacramento, California (1925)**

By June 1925, the partners were advertising their square milk bottles in dairy publications and calling their firm the Blake-Harts Products Co. of Sacramento, California. An early ad claimed that these bottles would increase the capacity of refrigerators and wagons and reduce bottle breakage. Of equal importance, standard equipment would fill, cap, and wash the
bottles. A drawing in the ad illustrated the Blake-Harts trademark and the “PAT. APPD. FOR.” embossing. They expressed their expectations that their milk bottle would catch on in the East (Dairy Antiques 2013).

According to the Sacramento Bee on August 28, 1925, the partnership consisted of Irva J. Blake, Harry H. Hart, and William S. Hart, located at 1720 C St., Sacramento, California (the location of Blake’s Dairy). The partnership was the “exclusive owner” of the square bottle with “a picture of a heart with words Blake (sic) written across the picture of the heart and blown into the bottle.” Oddly, we have found no other reference to this company.

Containers and Marks

On January 13, 1925, Irva J. Blake and Harry H. Hart (both of Sacramento, California) filed for a patent for a “Bottle” (Figure 8). The pair did not receive Patent No. 1,635,811 until July 12, 1927 – almost two years and seven months later, possibly because another square milk bottle had been patented in 1898 (see below). The Blake & Hart patent noted that their invention was a “bottle, specially adapted for dispensing milk, or the like, and is so formed that it will fit all types and makes of automatic bottling machines [i.e., machinery to fill milk bottles].” Because the bottles were square in cross-section, “a plurality of bottles can be stowed in a minimum amount of space, with adjacent bottles offering a large surface to provide contact therebetween (sic) and thus restrain them from movement.” They also noted that the shape “tends to prevent shifting or upsetting of the bottles, especially when the latter are being filled in filling machines, and after being filled.”

Dairy Antiques (2013) noted that Charles T. Nightingale invented the first square milk bottle. Nightingale applied for a patent on August 3, 1896, and received Design Patent No. 29,673 on November 15, 1898, for a “Design for a Milk-Jar” (Figure 9). The bottle was square in cross-section and was similar in design to the bottle later created by Blake and Hart. Like the
latter inventors, Nightingale’s patent remained in limbo for over two years and three months. Again, we have no explanation for the lengthy delay. The designer noted that “the leading feature of the design resides in a milk-jar provided with right-angular corners and a conical-tapered neck portion.”

The finish of the Nightingale bottle included an “inner annular rabbet” – better known today as a cap-seat – a ledge for the cardboard disk closure. The drawing showed a series of graduations embossed down the center of one side. According to Dairy Antiques (2013), the bottles were made in half pint, pint, and quart sizes and used tin-top closures. The bottles were mouth blown and had “CLIMAX” embossed on their bases (see the Other C section for a discussion on Climax). They noted that the bottles they had seen did not have the cap-seat in the throat.

The *Sacramento Bee* advertised the Blake-Hart bottle on April 18, 1925, illustrating the bottle along with a somewhat fancier trade mark than those found on the actual bottles. The ad called the bottle “one of the greatest improvements in the dairy industry in many years.” Blake noted that the square bottle is a great saving for the housewife. It does not break as easily. It does not roll off the table when tipped over. It is easier handled by the children. It saves space and has many other advantages over the old round bottle (Figure 10).

On August 22, 1925, Irva Blake told the *Sacramento Bee* that “several orders for the new bottle have been received from Europe, the largest of which came last week when a firm in Milan, Italy, ordered 1,000,000 of the new type bottles. The bottle has been on the market only four months.” He added that the shape of the containers “enables thirty bottles to be placed in a regular twenty bottle space” and noted that “some 120,000,000 are used every day in this country. Of these, 8,000,000 are broken. We do not say our bottle is unbreakable but we claim it will reduce breakage 33 1/3 percent.”
Distribution

One of the inventors told the *Sacramento Bee* (7/15/1927) that “every bottle will bear the name The Sacramento Bottle. . . . The container formerly was known as the Blake-Hart bottle, but the two men believe that to call it The Sacramento Bottle would give the city wide recognition.” Based on empirical evidence, Dairy Antiques (2013) doubted that the name was ever used this way, although Blake, himself, used bottles with SACRAMENTO “embossed in three locations” (Figures 11 & 12). Our observations concur; we have not seen a single container embossed “The Sacramento Bottle.”

Blake and Hart expected “to establish the bottle in every city in the country. . . . Thirty-six dairies west of the Rocky Mountains [are] now using the containers and are paying Blake and Hart royalties” (*Sacramento Bee*, 7/15/1927). Dairy Antiques (2013) listed 21 California dairies and creameries that used the containers, and Knipp (1988:1) pointed out that Blake-Hart bottles were found in Oregon, Nevada, and Hawaii, as well as California. It is clear that this period of square bottle use was restricted to the West Coast and nearby states (plus Hawaii). Although Blake and Hart claimed that dairies in Chicago were interested in using their milk bottles, there is no evidence that the bottles were used east of Nevada (Dairy Antiques 2013).

**BLAKE across a milk bottle inside a heart**

The distinctive Blake-Hart logo was embossed on the heels of square milk bottles. The mark consisted of the horizontal word “BLAKE” superimposed over the outline of a milk bottle, surrounded by a heart (Figure 13). The word “TRADE” was embossed to the left of the lower section of the heart, with “MARK” to the right. At first glance, the “body” of the milk bottle appears to be a “U” under the word “BLAKE” on some bottles (Figure 14).
Although Toulouse (1971) did not include the logo, Giarde (1980:16-17) provided the explanation that the “mark is not that of
the manufacturer but rather is a trademark of the inventors of the
old square.” Dairy Antiques (2013) further support this contention, noting that all milk bottles they have found with the mark were square.

Most of these bottles are embossed with either “PAT APPD FOR” or “U.S. Patent 1635811 / July 12, 1927” on the heel opposite the one with the Blake-Hart logo. Since Blake and Hart applied for their patent in January of 1925, some of their bottles were obviously manufactured prior to receiving the patent – hence the abbreviation noting the application had been filed.

According to one of the inventors (probably Blake), he and others had been using the bottle “for three years” in 1927 (Sacramento Bee, 7/15/1927). Although that places the initial date of manufacture five months prior to the patent application, the inventor was probably correct. It is likely that Blake had some of the bottles made for his own dairy prior to applying for the patent. This may have been a test, or he may just have been convinced about the efficacy of his own design.

We could thus expect bottles with “PAT APPD FOR” to have been made as early as January 1925 and as late as July 1927. Dairy Antiques (2013) reported the earliest bottle we have recorded, with a date code for December 1925 (see section on date codes below), along with “PAT APPD FOR.” Although we would have expected the application embossing to have disappeared with the issuance of the patent, Dairy Antiques also recorded date codes as late as 1929 with “PAT APPD FOR.” The glass houses apparently used the molds until they wore out.

According to Giarde (1980:16), most of these square bottles bear the patent date – July 12, 1927. Dairy Antiques (2013) confirmed the use of the patent date by at least 1928. However, we have also discovered Blake-Hart bottles with no “PAT APPD FOR,” no patent date, and date codes as late as August 1930. It is possible that the “PAT APPD FOR” bottles enjoyed the greatest popularity and production slacked off after the patent was actually issued.
Possibilities presented by the bottles with no Blake-Hart logos or patent data are discussed in the “Manufacturers” section below.

**Date Codes**

Although a few date codes appeared on soda and beer bottles as early as the 1880s, the Thatcher Mfg. Co. embossed the first date code on a milk bottle in late 1909. Thatcher regularly used date codes on its bottles from that point on, but other glass houses were slow to follow (Lockhart et al. 2007). Date codes throughout the glass industry (as well as on milk bottles) were generally embossed on bottle heels or bases, but a unique system occurred in California in the 1920s – just about the time that Blake-Hart bottles made their debut.

The Southern Glass Co., Vernon, California, began embossing date codes on the rim or lip of the milk bottle. In addition to the year code, Southern Glass also included a month code. These took the form of tiny numerals embossed at the very top of the bottle, read by looking straight down as if into the mouth of the container (Figures 15). The firm embossed a single- or double-digit month code on the left side of the rim and a single numeral on the right to represent the year. Month code changes were easily revised by merely stamping the new month code atop the old one.

Although our original research recorded 1924 as the earliest year for rim codes (see Schulz et al. 2009), new information suggests that the initial bottles were made by at least August 1923. Rim codes slacked off in popularity by 1928, but a few were still used as late as 1933. Eventually, the Pacific Coast Glass Co., Illinois-Pacific Glass Corp., Owens-Illinois Pacific Glass Co., and the Latchford Glass Co. all used the rim-code system on some milk bottles. By 1929, Illinois-Pacific had moved its codes to the heel, and, by 1930, few continued to use rim codes or month codes.

The timing for the use of rim codes and Blake-Hart bottles is very interesting. Each phenomenon began in earnest in 1924, peaked out ca. 1928, and dwindled to almost extinction.
by 1930. This demonstrates a strong correlation between the use of rim codes and manufacture of Blake-Hart bottles. Correlation, of course, does not prove causation, and there were numerous round bottles with rim codes. However, the evidence is intriguing. With the exception of the Latchford Glass Co. (a firm that apparently only used rim codes in 1933), all of these glass houses were also known as manufacturers of the Blake-Hart bottles, opening the possibility that Blake-Hart was the initiator of the rim date codes.

Manufacturers

As noted above, Blake and Hart were users of their own milk bottles (Blake at his dairy/creamery, Hart at his restaurants), and they became jobbers, selling their milk bottles to other dairies and creameries – usually with the embossed names and locations of the individual concerns on the bottles. It is certain that the pair did not actually manufacture any bottles. So, our question becomes: Who did make the bottles?

The Sacramento Bee (7/15/1927) noted in 1927 that “the bottle, at present, is being manufactured in San Francisco by the Pacific Coast Glass Company.” Doug Gisi discovered a single Blake-Hart square bottle with the PAT APPD FOR base and the “PC rectangle” heelmark, used by Pacific Coast Glass. Although the bottle did not have rim date codes, the manufacturer’s mark confirms the newspaper identification of the maker.

In addition, we have recorded the Blake-Hart mark on bottles that have two-digit year codes on the rims (for 1926), a condition only found in our sample on bottles made by the Pacific Coast Glass Co. This also suggests that Pacific Coast Glass made bottles for Blake-Hart during the period claimed by the Sacramento Bee. By November 1926, Blake-Hart bottles were dated with a single-digit code, and double-digit year codes never returned. Dairy Antiques (2013) noted that most bottles made by Pacific Coast also have the “PAT APPD FOR” designation.

According to Giarde (1980:16), bottles bearing this mark are known to have been made by the Illinois-Pacific Glass Corp., Illinois-Pacific Coast Co., and the Owens-Illinois Pacific
Coast Co. (all the same company, with name changes reflecting reorganizations).\textsuperscript{2} Indeed, we have recorded a single bottle with a rim code of 8 // 9 with the Blake-Hart logo on one heel and the Illinois-Pacific triangle logo on another, confirming the Illinois-Pacific connection. Dairy Antiques (2013) recorded a date code as late as May 1930 with same logo and noted that most of the bottles made by Illinois-Pacific had the patent date.

Dairy Antiques (2013) also noted that they “have seen one Blake-Hart milk bottle from Hilo, Hawaii that has the makers mark of the Owens-Illinois Pacific Coast Company with a 1936 date code.” The bottle, however, did not include the Blake-Hart logo. Blake and Hart had almost certainly closed their bottle business by that time, so the need for the logo had passed.

Knipp (1988:1) claimed the bottles were used between 1925 and 1933. He quoted Giarde as stating that later bottles “were known to have been made by Hazel Atlas Glass Co.” If correct, this may account for bottles having no rim date codes (see below). The latest date code that we have seen associated with square, Blake-Hart style milk bottles is 1930, although Dairy Antiques (2013) recorded the Owens-Illinois example with a 1936 date code.

**Square bottles with no Blake-Hart logos**

In addition, we have observed a single square milk bottle (Blake-Hart format) with no rim codes and no Blake-Hart symbol on the heel. However, the bottle was embossed with the Southern Star (S in a star) mark of the Southern Glass Co. Southern used the star mark from 1926 to 1931, although the mark with no accompanying date codes was only used from 1926 to 1928. Thus, the Southern Glass Co. also made square milk bottles during the same period.

It is possible that square bottles without the Blake-Hart symbol or patent date could be a “knock off” bottle made by Southern Glass prior to the issuance of the patent. Until Blake and Hart actually received their patent, they had no way to protect their “invention,” and no one would be compelled to pay them for it. Given that the design was pretty simple, glass factories may well have thought that the Patent Office would never agree to a patent.

\textsuperscript{2} For a discussion of this series of glass houses, see the sections for all three Illinois-Pacific firms.
Similarly, other square milk bottles from the period, regardless of the manufacturer, could have been made in avoidance of the Blake-Hart claim prior to the issuance of the patent. Others (e.g., the 1936 Owens-Illinois bottle recorded by Dairy Antiques) could have been made after Blake and Hart ceased operations as a company with little fear of legal retaliation. Alternatively, Owens-Illinois may have purchased the rights to the patent by that time.

**Discussion and Conclusions**

There is no question that the square milk bottles invented by Irva Blake and Harry Hart were manufactured for two years or more prior to receiving a patent. The distinctive square bottles were made for ca. eight years, from 1925 to 1933 (with a single outlier made in 1936). Although they were not manufacturers, Blake and Hart sold their bottles primarily to California dairies and creameries as well as using them at Blake’s creamery and Hart’s restaurants.

At least two glass houses legitimately made the bottles for Blake and Hart. Initially, the Pacific Coast Glass Co. produced the containers, from late 1925 to 1927. The Illinois-Pacific Glass Corp. replaced Pacific Coast at some point in 1927, and the glass house continued to make the bottles under the new name of the Illinois-Pacific Coast Co. in 1930 and the Owens-Illinois Pacific Coast Co. in 1932.

In addition, the Southern Glass Co. made some of the bottles – without the Blake-Hart logo or the patent information – during the 1926-1928 period. It is possible that Southern Glass took advantage of the lack of patent protection to produce its own version of the bottles. Several other square bottles – obviously from the same patent – were made with no logo, no patent information, and no manufacturer’s marks – again possibly taking advantage either the lack of a patent prior to 1927 or Blake-Hart’s disappearance from the literature by ca. 1929.

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