Refrigeration in American Breweries 1860-1920

Ice & Refrigeration Advertisements

HERCULES ICE AND REFRIGERATING MACHINE
REFRIGERANT: ANHYDROUS AMMONIA.
For Breweries, Packing Houses, Cold Storage,

From ICE AND REFRIGERATION 1891
H. J. KREBS'
U. S. A. Circulating System of Ammonia
PATENTED SEPTEMBER 26th, 1887.

THE results achieved by this system, both for brine cooling and ice making, are unexcelled. It ensures dry gas to the pump and abundance of feed to the expansion pipes, therefore economy in piping, economy in ammonia and economy in space. It is simple and easily operated and saves time, money and worry. You cannot afford to do without it.

In Ordering Machines Specify the
U. S. A.
CIRCULATING SYSTEM.

DURING LAST YEAR IT WAS INTRODUCED WITH GREAT SUCCESS IN THE FOLLOWING ESTABLISHMENTS:

Charles W. Street, Packing House, Baltimore, Md.
Washington Abattoir Co., Baltimore, Md.

during last year I have erected the following plants:

Cheese and Sausage Makers

N. Austle, Pork Packer, Washington, D.C.
C. Spack, Sausage Makers, Baltimore, Md.
David Rehner, Pork Packer, Baltimore, Md.
J. F. C. Banne, Pork Packer, Baltimore, Md.


during last year I have erected the following plants:

Ice Making & Refrigerating Machines

J. C. MUSTARD,
1818 North 17th Street, Philadelphia, Pa.

BUILDERS OF

ICE MAKING & REFRIGERATING MACHINES

The last named plant is now about starting, having changed it from absorption to compression. A number of above plants are fitted with the U. S. A. Circulating System, which for efficiency, economy, and simplicity can be surpassed. My long experience in the ice and refrigerating trade enables me to select the best, and I take special pride in furnishing high grade machinery at moderate cost.

J. C. MUSTARD,
1818 North 17th St., Philadelphia, Pa.

CORRESPONDENCE SOLICITED.
SOUTHERN ICE MACHINE CO.

SOLE OWNERS AND MANUFACTURERS OF

The Latest Improved Absorption

ICE AND REFRIGERATING MACHINE.

THE SOUTHERN

The SOUTHERN ICE AND REFRIGERATING MACHINE is one of the best and has been acknowledged by the most experienced ice manufacturers to work more economical and produce ice cheaper and of a better quality than any other machine on the market to-day.

ALL MACHINES NOW IN OPERATION ARE GIVING PERFECT SATISFACTION.

FOR ESTIMATES AND FURTHER PARTICULARS ADDRESS THE

SOUTHERN ICE MACHINE CO.

CHATTANOOGA, TENN.
THE WESTERN ICE MACHINE CO.
OTTO HOFFMANN, PROPRIETOR.

Ice & Refrigerating Machinery
FOR BREWERIES, PACKING HOUSES, ICE FACTORIES.
COLD STORAGE PLANTS, MARKETS, CONFECTIONERS, ETC.

Every Part Accessible While in Motion. . . . . . . . . .
The Most Cooling with the Least Expense. . . . . . . .

**Western Ice Machine Co.**
Office, Room 605 Northern Office Building, Cor. La Salle and Lake Sts.

See this space next issue for illustration of Machine.

**ICE MACHINES**
(Windhausen's System.)

AINSLIE, COCHRAN & CO.
LOUISVILLE, KY.

We have recently secured the sole right to manufacture and sell Windhausen's Carbonic Anhydride Ice and Refrigerating Machines in the United States. These machines have gained a wide reputation on the continent for their simplicity, durability and economical running. They have been endorsed by the German government, an eighty (80) ton machine having been placed in the powder works at Spandau. They are also fast supersed ing other systems in the prominent breweries of Germany, nearly 500 being in operation already. They are the only machines using carbonic anhydride, which has such a great range of expansion, produces such intense cold, and is cheap, odorless and easily obtained.

WRITE TO US FOR FURTHER PARTICULARS.

**REFRIGERATING PLANTS**
THE PONTIFEX ICE MACHINE COMPANY,
ROBERT HEWITT, President, 512 West Street, NEW YORK CITY.
ARE PREPARED TO CONTRACT FOR
Ice and Refrigerating Plants of any magnitude, under the Reece, Stanley, Pontifex-Wood and Hendrick systems
Refrigerant, Ammonia as constructed under special arrangement with this Company by
THE HENDRICK MANUFACTURING COMPANY, LIMITED, CARBONDALE, PA.

The PONTIFEX-HENDRICK Ice and Refrigerating Machine is the result of more than fifteen years' experience in such work on the part of Messrs. Pontifex and Wood, Carnegies Works, London, the original builders of the machines in Great Britain and its colonies, and of the Pontifex Ice Machine Makers, Wigan, also with a long experience in the American refrigerating practice. A Simple, Strong, Durable, Reliable, Economical and Efficient Machine, particularly adapted for low temperature work, such as the refrigeration of

- Ice Factories in tropical countries. Over 250 machines in successful operation in Freezing and Cold Storage Warehouses, Breweries, Distilleries, Oileries, Packing Houses, Abattoirs, Breed Beef Houses and Markets, Barrels and Creameries, Butteries Factories, Yeast Factories, Chocolate and Candy Factories, Hotels and Restaurants, Paraflue and Cotton Seed Oil Refineries, Lard Refineries, Powder and Dynamite Mills. Machines built from 65 to 100 tons daily refrigerating capacity. Machines guaranteed for material, workmanship and capacity under test. For descriptive circulars, references, detailed specifications, apply either to
THE PONTIFEX ICE MACHINE COMPANY, OR THE HENDRICK MANUFACTURING CO., LTD.
512 West Street, NEW YORK.
CARBONDALE, PA.

CASTLE ICE MACHINERY CO.
MANUFACTURERS OF
INDIANAPOLIS, IND.

Absorption Ice and Refrigerating Machines

For all purposes, containing latest improvements, making REGULAR that which before was NOT regular. Our 15-ton Absorber contains over 6,000 square feet of absorbing surfaces, enabling the temperature of absorption to vary from 50 to 110 deg. Fahr. without affecting operations. One foundation for all machinery. Small water consumption. Economical and positive.

The machines in use: We refer to Seymour Ice Co. (Ind.) having machine with all improvements.

MAKE YOUR EXHAUST STEAM PRODUCE SILVER DOLLARS

By using it through our New Designed Machine with improvements for Refrigerating, Cold Storage or Ice Making, from 50 lbs. to 3 tons. Using either live or exhaust steam. With non-explosive retort. Automatic. Can be arranged to operate 12 hours each day and perform excellent duty. No extrahelp required.

CIRCULARS AND ESTIMATES ON APPLICATION

THE CASE
REFRIGERATING
MACHINE CO.

BUILDERS
OF
ICE AND
Refrigerating
MACHINES.

FOR ICE MAKING
AND ARTIFICIAL
REFRIGERATING

Full particulars, Estimates, Illustrated Circular, containing list of machines in use, etc., upon application.

BUFFALO, N.Y.
PLANS AND SPECIFICATIONS

COLD STORAGE HOUSES
ICE AND REFRIGERATING PLANTS
ICE FACTORIES, ETC.

OTTO C. WOLF
Engineer and Architect

NORtheast CORNER OF BROAD AND ARCH STREETS

PHILADELPHIA

Branch Office:
543 Fifth Ave. New York.

PLANS AND SPECIFICATIONS FURNISHED FOR ALL ESTABLISHMENTS REQUIRING

ARTIFICIAL REFRIGERATION
COLUMBUS IRON WORKS

IMPROVED

Absorption Ice Machine

SUCCESSORS TO
H. D. STRATTON & CO.

Established 1853. Incorporated 1856.

W. R. BROWN, President.
W. COOK, Superintendent.

Machines from 5 to 35 tons capacity per 24 hours, or larger if desired.

+ + +

94 Machines Built
and all in successful operation.

+ + +

More Ice Making Machines sold in the South than by any other establishment.

+ + +

No expensive building required.

No pressure on machine when stopped.

Send for price list and illustrated circular with location of machines.

+ + +

This establishment was the first to turn out a perfect and complete Ice Machine, and has been in the business 21 years, constantly manufacturing and improving, and are prepared to furnish the most reliable and economical machine in the market.

BUILT BY THE

COLUMBUS IRON WORKS CO., COLUMBUS, GA.

The American Ice Machine Company

SOLE OWNERS OF THE
KLINGE AND WINKLER AUTOMATIC
REFRIGERATING AND + + + ICE MAKING MACHINE SYSTEM

Simplicity of Construction,
Durability. . . . . . .
Efficiency.
Economy.

ICE-MAKING OR
REFRIGERATING
PLANTS

From One Ton to Two Hundred
Tons daily capacity.

Over 100 MACHINES IN OPERAION

1. The simplicity of construction. Every part is simple and complete, is exposed to full view easily got at and can be readily understood and handled by an engineer of ordinary intelligence.

2. The freezing process is completely automatic (WHICH NO OTHER FREEZING SYSTEM POSSESSES), through the action of our patent evaporation pressure evaporator; it never fails, is always working, every part is independent of the other, and can be overheated or replaced without stopping the whole machine.

3. That ice is manufactured from distilled water, which is free from disease-producing germs, such as those in sea frozen water, and possesses all the essential purity, and is infinitely preferable to the natural product.

4. Our Patent Gas Condenser enables us to work with warmer water and less water than any other machine, as the water is applied DIRECT on the ice pipe without waste or slip on the surroundings.

5. We can make more ice or air at any other machine, WITH THE SAME AMOUNT OF FUEL. Experts have placed the difference in our favor at not less than 25 degrees.

6. The Condensers and Freezers will not scum on account of sediments. They never require cleaning. They clean themselves while at work without separate attachment. Our freezing cabinets are entirely self contained, are self cleaning and independent of the other. Each coil section can be taken out while working without interference with the other sections.

Company's Offices, 35 Broadway, Rooms 72, 73, 74 and 75, New York.
The Improved Pontifex-Wood Machine
A MOST ECONOMICAL AND RELIABLE APPARATUS.

Adapted to all classes of Refrigeration, especially where extremely low temperatures are required.

ALSO FOR
MAKING
. . . . ICE

UPWARDS OF
400
MACHINES IN OPERATION.

H. J. W. S. COOKE,
Putee.

ESTIMATES FURNISHED.
SEND FOR CIRCULARS.

ISBELL-PORTER COMPANY, BUILDERS,
OFFICES
245 BROADWAY, NEW YORK
46 BRIDGE STREET, NEWARK, N. J.

THE KRAUSCH
ICE AND
Refrigeration Machine

is original, horizontal, simple, strong; double acting, central, and is provided
with the Corliss Valve Gear. It is most economical in fuel, water and space.
Its refrigeration capacity is unsurpassed. Machines are in operation for 15 years
without need of repairs, but ordinary wear and tear.

Our machines are guaranteed for years. Plants are erected for Packing
Houses, Breweries, Oil Refineries, Cold Storage, Market Houses, Butcher Shops,
Hotels and Ice Making.

PRICES ARE MODERATE.

ALL KINDS
ARCHITECTURAL PLANS
FURNISHED.

THE THEO. KRAUSCH CO.
122 E. UTICA STREET, BUFFALO, NEW YORK.
PICTET
Ice Refrigerating Machine
MANUFACTURED BY:
WHITEHILL ENGINE & PICTET ICE MACHINE CO.

WE DO NOT USE AMMONIA.

PICTET Machines use Anhydrous Sulphurous Oxide, a chemical noted for its low working pressure, is of itself a lubricant, and does not injure any of the metals. Its low pressure is a guarantee against explosion.

NEW YORK BOARD OF FIRE UNDERWRITERS,
BUREAU OF SURVEY
JAMES HARRISON, Supt.
Broad Building, 12 Broadway, Room 200.
NEW YORK. January 24, 1899.
THE PICTET ARTIFICIAL ICE CO. (Limited), New York,
Dear Sir: Your favor of the 23d inst. in hand. Having the examination of executants and witnesses report were considering that the results are sufficiently in favor of "Salpetrine" and the implication that it has no liability in the matter of contract or cause thus.
Yours truly,
JAMES HARRISON, Sept.

Working Pressure from 50 to 75 lbs.
We guarantee GREATER ECONOMY OF FUEL, doing the same amount of work with less coal than any machine in the market.

FOR LIST OF REFERENCES AND FURTHER PARTICULARS, ADDRESS

WHITEHILL ENGINE & PICTET ICE MACHINE CO.
WORKS: NEWBURGH, N. Y.

New York Office, 21 Cortlandt St., Room 6.
FRICK COMPANY
ENGINEERS.
WAYNESBORO, FRANKLIN COUNTY, PA., U.S.A.
INCORPORATED 1893.
HEAD OFFICE AND MANUFACTURING PLANTS:
WAYNESBORO, PA.
CAPITAL: $1,000,000.

ECLIPSE
Ice Making & Refrigerating Machines.

SEND FOR OUR NEW CATALOGUE, 1890.

A Few References:

BREWERIES:

C. G. Berg Co., Cincinnati, O. - 79
J. H. Ralston, Philadelphia, Pa. - 83
Herman Luckman, Pittsburgh - 85

PACKING AND COLD STORAGE:

A. C. Shailer & Co., Baltimore - 10
G. O. Good & Sons, Baltimore - 95
H. R. Hammond & Co., Blessing, Ill. - 93

ICE FACTORIES:

E. L. Ellis & Co., Hopkinsville, Ky. - 15

WE BUILD THE LARGEST AND MOST SUCCESSFUL MACHINES EVER MADE IN THIS OR ANY OTHER COUNTRY.

150-Ton Machine. Weight, 193,250 Pounds.
FRICK COMPANY, ENGINEERS,
Waynesboro, Franklin Co., Pa.

A GENUINE CORLISS ENGINE WITH ALL THE LATEST IMPROVEMENTS.

"ECLIPSE" CORLISS TANDEM COMPOUND CONDENSING ENGINE
UP TO 3000 HORSE POWER

We have complete line of patterns and build Corliss Horizontal Stationary Engines, Corliss Vertical Engines, Condensing or Non-Condensing, Single or in Pairs. Corliss Compound Engines, Tandem or Cross Compound. Corliss Engines for any service, 40 to 3000 horse power, in a single engine.

SPECIAL NOTICE—With our Corliss Engine we contract for setting up complete the entire Steam Plants, including Steam Boiler, Feed Water Heater, Feed Pumps, Piping, Shafting, and all the appurtenances and belongings peculiar to a first-class job.

SEN. FOR SPECIAL PAMPHLET AND LIST OF REFERENCES OF CORLISS ENGINES.

1000-HORSE POWER "ECLIPSE" PLAIN CORLISS ENGINE.
ICE-MAKING MACHINES.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>NAME</th>
<th>ADDRESS</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>8</td>
<td>Tom. Meridian Ice Mfg. Co.</td>
<td>Meridian, Miss.</td>
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<td>3</td>
<td>8</td>
<td>Elkinsville Ice and Cold Storage Co.</td>
<td>Elkinsville, Ind.</td>
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<td>4</td>
<td>15</td>
<td>Rockhampton Ice Co.</td>
<td>Rockhampton, Tenn.</td>
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<td>5</td>
<td>8</td>
<td>Valparaiso Ice Co.</td>
<td>Valparaiso, Ind.</td>
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<td>6</td>
<td>8</td>
<td>Galena Ice &amp; Cold Storage Co.</td>
<td>Galena, Iowa</td>
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<td>7</td>
<td>8</td>
<td>Sheboygan Ice Co.</td>
<td>Sheboygan, Wis.</td>
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<td>8</td>
<td>Chicago Ice Co.</td>
<td>Chicago, Ill.</td>
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<td>8</td>
<td>Detroit Ice Co.</td>
<td>Detroit, Mich.</td>
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<td>8</td>
<td>Ilion Ice and Coal Co.</td>
<td>Ilion, N.Y.</td>
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<td>11</td>
<td>8</td>
<td>Ravenna Ice Mfg. Co.</td>
<td>Ravenna, O.</td>
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<td>12</td>
<td>8</td>
<td>Pattersonburg Ice Co.</td>
<td>Pattersonburg, Va.</td>
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<td>13</td>
<td>8</td>
<td>Cleveland Ice Co.</td>
<td>Cleveland, O.</td>
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<td>14</td>
<td>8</td>
<td>Dubuque Ice Co.</td>
<td>Dubuque, Ia.</td>
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<td>8</td>
<td>Des Moines Ice Co.</td>
<td>Des Moines, Ia.</td>
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<td>16</td>
<td>8</td>
<td>Van Buren and Chambers</td>
<td>Van Buren, Ala.</td>
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<td>17</td>
<td>8</td>
<td>John C. Webb</td>
<td>John C. Webb</td>
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<td>18</td>
<td>8</td>
<td>Huntington Ice and Storage Co.</td>
<td>Huntington, W. Va.</td>
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<td>19</td>
<td>8</td>
<td>Corvallis Artificial Ice Co.</td>
<td>Corvallis, O.</td>
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<td>20</td>
<td>8</td>
<td>Tepelie Ice Co.</td>
<td>Tepelie, S. Dak.</td>
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<td>21</td>
<td>8</td>
<td>Washington Ice and Storage Co.</td>
<td>Washington, D.C.</td>
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<td>23</td>
<td>8</td>
<td>Washington Ice Co.</td>
<td>Washington, Ind.</td>
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<td>24</td>
<td>8</td>
<td>Waller and Hamilton Ice Co.</td>
<td>Waller and Hamilton, Texas</td>
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<td>25</td>
<td>8</td>
<td>Decatur Cold Storage and Ice Co.</td>
<td>Decatur, Ill.</td>
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<tr>
<td>26</td>
<td>8</td>
<td>Dayton Ice Co.</td>
<td>Dayton, Ohio</td>
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<td>27</td>
<td>8</td>
<td>Dayton Ice &amp; Cold Storage Co.</td>
<td>Dayton, Ohio</td>
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<td>28</td>
<td>8</td>
<td>Evansville Ice &amp; Cold Storage Co.</td>
<td>Evansville, Ind.</td>
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<td>29</td>
<td>8</td>
<td>Connell &amp; Garske</td>
<td>Connell &amp; Garske</td>
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<td>30</td>
<td>8</td>
<td>Leland Artificial Ice Co.</td>
<td>Leland, Miss.</td>
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<td>31</td>
<td>8</td>
<td>Goodland Ice, Light &amp; Power Co.</td>
<td>Goodland, Ind.</td>
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<td>32</td>
<td>8</td>
<td>Grovella Creamy Old Storage Co.</td>
<td>Grovella, Ind.</td>
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<td>33</td>
<td>8</td>
<td>Ukiah Ice Co.</td>
<td>Ukiah, Calif.</td>
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<td>34</td>
<td>8</td>
<td>Washington Ice Co.</td>
<td>Washington, Ind.</td>
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<td>35</td>
<td>8</td>
<td>Washington Ice &amp; Storage Co.</td>
<td>Washington, D.C.</td>
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<tr>
<td>36</td>
<td>8</td>
<td>Captain Holmes Ice Co.</td>
<td>Captain Holmes, Ala.</td>
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<td>37</td>
<td>8</td>
<td>Shelbyville Artificial Ice Co.</td>
<td>Shelbyville, Ind.</td>
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<td>38</td>
<td>8</td>
<td>慎得Shelbyville Artificial Ice Co.</td>
<td>Shelbyville, Ind.</td>
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<td>39</td>
<td>8</td>
<td>Paladine &amp; Webster Ice and Storage Co.</td>
<td>Paladine &amp; Webster, Ind.</td>
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<td>40</td>
<td>8</td>
<td>Zanesville Ice Co.</td>
<td>Zanesville, O.</td>
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<td>41</td>
<td>8</td>
<td>Evansville Ice &amp; Cold Storage Co.</td>
<td>Evansville, Ind.</td>
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<tr>
<td>42</td>
<td>8</td>
<td>Ashland Artificial Ice Co.</td>
<td>Ashland, Ky.</td>
</tr>
<tr>
<td>43</td>
<td>8</td>
<td>Coryville Artificial Ice Co.</td>
<td>Coryville, O.</td>
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</table>

ICE-MAKING MACHINES.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>NAME</th>
<th>ADDRESS</th>
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<tbody>
<tr>
<td>1</td>
<td>15</td>
<td>Gibson House</td>
<td>Cincinnati, O.</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
<td>Palace Hotel</td>
<td>San Francisco, Cal.</td>
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<td>3</td>
<td>8</td>
<td>The People's Hotel</td>
<td>Birmingham, Ala.</td>
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<td>4</td>
<td>8</td>
<td>Citizens Ice Co.</td>
<td>Los Angeles, Cal.</td>
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<td>5</td>
<td>8</td>
<td>O. J. White</td>
<td>Omaha, N. B.</td>
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<td>6</td>
<td>8</td>
<td>E. C. White &amp; Sons</td>
<td>Denver, Col.</td>
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<td>7</td>
<td>8</td>
<td>Colorado Ice and Storage Co.</td>
<td>Colorado Springs, Cal.</td>
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<td>8</td>
<td>E. H. Garver &amp; Co.</td>
<td>Denver, Col.</td>
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<td>9</td>
<td>8</td>
<td>Mr. D. O. McManus</td>
<td>Denver, Col.</td>
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<td>10</td>
<td>8</td>
<td>Consumers Ice Co.</td>
<td>Denver, Col.</td>
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<td>11</td>
<td>8</td>
<td>Artificial Ice Co.</td>
<td>Denver, Col.</td>
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<td>8</td>
<td>Crystal Ice Co.</td>
<td>Denver, Col.</td>
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<td>Meridian Ice Co.</td>
<td>Meridian, Miss.</td>
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<td>Dayton Ice Co.</td>
<td>Dayton, Tenn.</td>
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<td>16</td>
<td>8</td>
<td>Decatur Ice Co.</td>
<td>Decatur, Ala.</td>
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<td>17</td>
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<td>The Franklin Artificial Ice Co.</td>
<td>Columbus, Ind.</td>
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<td>18</td>
<td>8</td>
<td>Mr. A. N. Reed</td>
<td>New York, N. Y.</td>
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<td>19</td>
<td>8</td>
<td>J. E. Underwood &amp; Co.</td>
<td>Chicago, Ill.</td>
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<td>21</td>
<td>8</td>
<td>Consumers Ice Co.</td>
<td>Chicago, Ill.</td>
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<td>22</td>
<td>8</td>
<td>Engraved Ice Co.</td>
<td>Chicago, Ill.</td>
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<td>23</td>
<td>8</td>
<td>Ilion Ice &amp; Cold Storage Co.</td>
<td>Ilion, N.Y.</td>
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<td>24</td>
<td>8</td>
<td>Rentz &amp; Son</td>
<td>Columbus, Ind.</td>
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<td>25</td>
<td>8</td>
<td>Present &amp; Cold Storage Co.</td>
<td>Columbus, Ind.</td>
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<td>26</td>
<td>8</td>
<td>Lafayette Ice Co.</td>
<td>Lafayette, Ind.</td>
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<td>27</td>
<td>8</td>
<td>Coffin Ice Co.</td>
<td>New Orleans, La.</td>
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<td>28</td>
<td>8</td>
<td>John A. C. Hollywood Hotel</td>
<td>Long Branch, N. J.</td>
</tr>
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<td>29</td>
<td>8</td>
<td>Bridgwater Electric Ice Co.</td>
<td>Cincinnati, O.</td>
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<td>30</td>
<td>8</td>
<td>Flohower &amp; Co.</td>
<td>Cincinnati, O.</td>
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</tbody>
</table>

* These machines were erected in season 1897.

REFRIGERATING MACHINES.

<table>
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<tr>
<td>1</td>
<td>8</td>
<td>Louisiana Refrigerating Co.</td>
<td>New Orleans, La.</td>
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<td>2</td>
<td>8</td>
<td>Toled Electric and Refrigerating Co.</td>
<td>Cincinnati, O.</td>
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<td>8</td>
<td>Hulett &amp; Ritter Refrigerating Co.</td>
<td>Cincinnati, O.</td>
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<td>4</td>
<td>8</td>
<td>Savannah Refrigerating Co.</td>
<td>Savannah, Ala.</td>
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<td>5</td>
<td>8</td>
<td>Schnitz &amp; Schnitz Refrigerating Co.</td>
<td>Dayton, O.</td>
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<td>6</td>
<td>8</td>
<td>John Smith's Sons Refrigerating Co.</td>
<td>San Francisco, Cal.</td>
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<td>7</td>
<td>8</td>
<td>Christilte Refrigerating Co.</td>
<td>Buffalo, N. Y.</td>
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<td>8</td>
<td>Certain Oil Works</td>
<td>Cincinnati, O.</td>
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<td>9</td>
<td>8</td>
<td>S. Davis Jr. &amp; Co. Refrigerating Co.</td>
<td>Cincinnati, O.</td>
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<td>10</td>
<td>8</td>
<td>Occidental Packing Co.</td>
<td>Lawrence, Kans.</td>
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<td>12</td>
<td>8</td>
<td>Jones Refrigerating Co.</td>
<td>Chicago, Ill.</td>
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<td>13</td>
<td>8</td>
<td>Funk &amp; Son Refrigerating Co.</td>
<td>San Francisco, Cal.</td>
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<tr>
<td>14</td>
<td>8</td>
<td>F. Conard Refrigerating Co.</td>
<td>Atlanta, Ga.</td>
</tr>
<tr>
<td>15</td>
<td>8</td>
<td>The Mifflin-Weston Co.</td>
<td>Detroit, O.</td>
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</tbody>
</table>

* These machines were erected in 1898.
CONSOLIDATED ICE MACHINES

FOR several years past we have been engaged in building Consolidated Ice Machines, and many of the very best running in the United States, at the present time, are of our manufacture. Since the original Company have failed, we have concluded to continue this business, and hereafter will manufacture, to order, any kind or style of a Consolidated Ice Machine desired. We will also contract for complete plants, and will put in either direct or brute circulation, as may be desired. We make a specialty of furnishing duplicate parts, and keep them always in stock, and can furnish on short orders any detail of these machines. We manufacture special steel valves and white metal rings designed especially for ammonia work.

We guarantee protection against any and all claims or pretended claims for patents on these machines.

These machines are known throughout the United States for the excellence of their construction, and their superiority to all others in use. They need no better recommendation than their own work. All the material and workmanship on them is of the finest quality.

We have the original drawings and patterns in our possession, and can furnish a better machine for less money than can be built elsewhere. We also manufacture and keep on hand to supply the trade the finest steel fittings and steel valves made in the world, designed especially for ammonia work, and will be pleased to quote prices to purchasers.

NOTE.—It has come to our knowledge that parties owning or claiming to own a bogus patent, issued to one James Boyle in 1876, for an ammonia compressor, have been putting in circulation notices that the pumps used on the Consolidated Refrigerating Machines is an infringement on said patent, and that they will bring suit against any one using them; therefore we hereby guarantee to all persons purchasing one of our machines protection against said fraudulent claims, and request all persons receiving one of such notices to forward the same to us, with a statement setting forth whether they have been influenced not to buy a Consolidated Machine thereby. We also give the parties setting up these claims public notice that we will bring suit against them for damage to our business by them, by misrepresentation and fraud.

John Featherstone's Sons,
2-36 Front Street, Corner North Halsted,

Chicago.
Herf & Frerichs Chemical Co.
St. Louis, Mo.

Liquid Anhydrous Ammonia
ABSOLUTELY DRY, PURE
AND UNIFORM ALL THE
YEAR ROUND .

26° Ammonia
SPECIALY PURIFIED
FOR ABSORPTION
MACHINES .

All our Ammonia is made from Sulphate Ammonia only. Large capacity, best qualities and quick shipments.

No. 8 Linde Compressor
100 TONS CAPACITY.

Manufactured by
THE FRED. W. WOLF CO.
560 North Halsted Street, CHICAGO, ILL., U. S. A.

For Ice Factories, Cold Storage Houses, Breweries and Packing Houses

Over 1300 machines in actual operation.
THE HERCULES ICe MAKING AND REFRIGERATING MACHINE

The Hercules Ice Machine is the most compact, most economical, most easily handled, well constructed, and thoroughly satisfactory machine in the market.

OUR GUARANTEE IS THE HIGHEST GIVEN BY ANY COMPANY, AND EVERY MACHINE SOLD HAS EXCEEDED THE GUARANTEE.

A. NUNNING BREWING CO.
ST. JOSEPH, Mo.
HERCULES IRON WORKS, CHICAGO, ILL.
In reply to your inquiry relating to the 10-ton Refrigerator placed by you in our brewery, I am pleased to say the machine has more than met our expectations, and your guarantee fully demonstrating its worth and reliability. It has had the year round continuous night and day, and has not occasioned any stop for repairs of any kind, and we are greatly pleased to add our name to the long list of testimonials which the Hercules bears.
Yours respectfully,
AUG. NUNNING, President.

MEADERS & OSGOOD.
NASHVILLE, TENN.
HERCULES IRON WORKS, CHICAGO, ILL.
Our Silent Ice Machine purchased of you, after one month continuous operation has given such complete satisfaction that we do not wish to use the ability to perform this work guaranteed. It is now making with ease twenty-five tons daily of the finest ice we have ever seen, besides refrigerating our storage ice house. Congratulating you upon its good work, and wishing you the success you deserve, we are, etc.,
Yours respectfully
MEADERS & OSGOOD.

THE HERCULES BLUE BOOK NO. 1, FULL OF HELPFUL AND INTERESTING INFORMATION, IS NOW IN PRESS, AND WILL BE SENT FREE TO INTENDING PURCHASERS.

THE HERCULES IRON WORKS,
Room 502 Owings Building, Dearborn and Adams Sts., CHICAGO.
THE DE LA VERNGE REFRIGERATING MACHINE CO.

Foot of East 138th Street (Port Morris),

= NEW YORK, U.S.A. =

AND

ANHYDROUS AMMONIA . . .

Over

360

Machines are now in Successful Operation, Representing a Total Capacity Equal to the Meltling of over

18,000

Tons of Ice Per day.

A FULL DESCRIPTION OF OUR SYSTEM AND APPARATUS WILL BE SENT TO PERSONS APPLYING FOR THE SAME.

CORRESPONDENCE FROM PARTIES DESIRING OF CONTRACTING FOR PLANS IS SOLICITED.

Estimates and Proposals will be promptly furnished free of charge as soon as the requirements are made known to us.

HERCULES ICE AND REFRIGERATING MACHINE

Refrigerant: Anhydrous Ammonia.

For Breweries, Packing Houses, Cold Storage,

ARTIFICIAL ICE PLANTS

STONGEST, MOST DURABLE AND MOST ECONOMICAL MACHINE ON THE MARKET. OUR GUARANTEE IS THE HIGHEST GIVEN BY ANY COMPANY, AND EVERY MACHINE SOLD HAS EXCEEDED THE GUARANTEE. SEND FOR ILLUSTRATED CIRCULAR AND REFERENCES.

WORKS, AURORA, ILL. THE HERCULES IRON WORKS, CHICAGO. ROOM 802 OWSING BUILDING, DEARBORN AND ADAMS STS.
THE WEISSEL & VILIE MFG. CO.
Manufacturers of
COOLING ENGINES,
Machinery for Brewers and Barriers.

ICE MAKING & REFRIGERATING MACHINERY
ICE MAKING PLANTS
FOR BREWERIES, PACKING HOUSES,
CONFECTIONERIES,
COLD STORAGE HOUSES, ETC.
MILWAUKEE, WIS.

Direct Expansion or Brine System

Van Winkle Gin & Machinery Co.
MANUFACTURERS OF
THE KEELING
... AUTOMATIC...
ICE MACHINE
FOR ICE MAKING, COLD STORAGE PLANTS, BREWERIES, PACKERS, ETC.
WRITE FOR ESTIMATES AND FURTHER INFORMATION.

Van Winkle Gin and Machinery Co.
OFFICE, 210 MARIETTA STREET, ATLANTA, GA.

ICE MACHINES
(WINDHAUSEN'S SYSTEM)
AINSIE, COCHRAN & CO.
LOUISVILLE, KY.

To the Trade...

We have recently secured the sole right to manufacture and sell WINDHAUSEN'S CARBONIC ANHYDRIDE ICE AND REFRIGERATING MACHINES in the United States. These machines have gained a wide reputation on the continent for their simplicity, durability and economical running. They have been in use by the German government, an eighty (80) ton machine having been placed in the powder works at Spandau. They are also fast superseding other systems in the prominent breweries of Germany, nearly 200 being in operation already. They are the only machines using carbonic anhydride which has such a great range of expansion, produces such intense cold, and is cheap, odorless and easily obtained.

WRITE US FOR FURTHER PARTICULARS

REFRIGERATING PLANTS

The above cut represents the No. 2 Machine at the Terra Haute House, Terra Haute, Ind.