

(Model.)

J. J. WOLF.
CHIP FOR BEER, ALE, &c.

No. 481,774.

Patented Aug. 30, 1892.

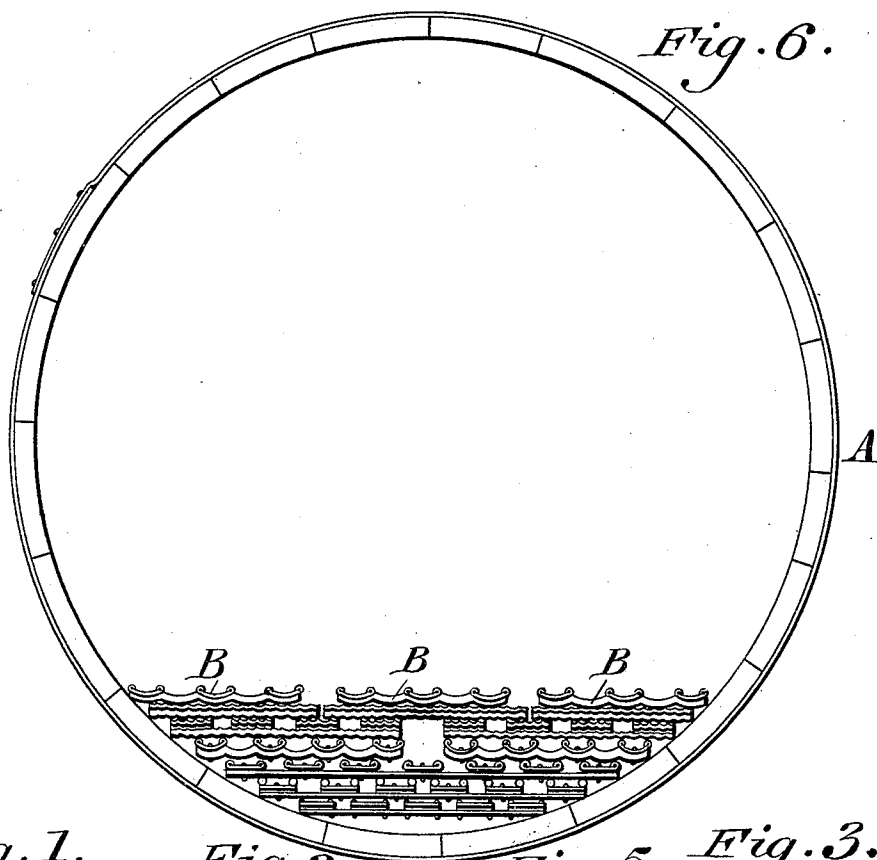


Fig. 1.

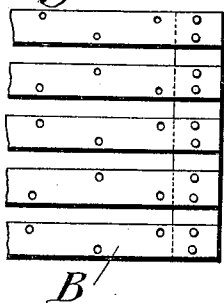


Fig. 2.

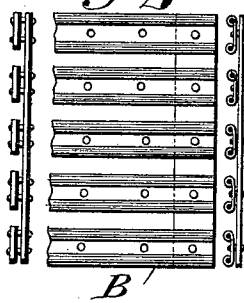


Fig. 5.

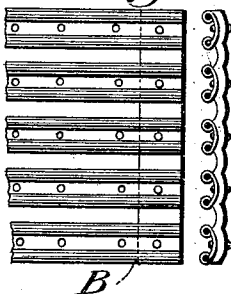


Fig. 3.

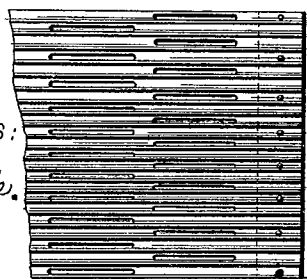
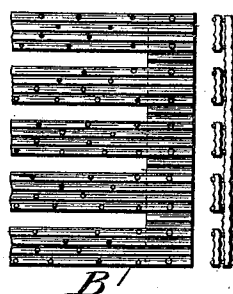


Fig. 4.

B

WITNESSES:

P. F. Tagle.

L. Douville.

INVENTOR
John J. Wolf
BY Edward Diederheim
ATTORNEY.

UNITED STATES PATENT OFFICE.

JOHN J. WOLF, OF PHILADELPHIA, PENNSYLVANIA.

CHIP FOR BEER, ALE, &c.

SPECIFICATION forming part of Letters Patent No. 481,774, dated August 30, 1892.

Application filed March 14, 1892. Serial No. 424,840. (Model.)

To all whom it may concern:

Be it known that I, JOHN J. WOLF, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Chips for Beer, Ale, &c., which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of chips for beer, ale, porter, and other fluids, the same being formed of metal, which overcome the objections to wooden chips and produce superior results, as will be hereinafter set forth.

Figures 1, 2, 3, 4, and 5 represent plan and end views of chips embodying my invention. Fig. 6 represents a view of the interior of a barrel with chips of various construction therein embodying my invention.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a barrel for beer, ale, porter, &c., and B designates chips therein at the bottom thereof, said chips being of various forms, but in each case formed of open metal-work, or strips of metal with openings therein, whereby the fluid may flow and circulate through the same, the air may rise, and the yeast and other sediment may be deposited on the same. The chips when in use are coated with tin, pitch, or other mineral or proper substance which will not dissolve in the fluid and spoil the same. Any number of chips may be placed in layers in the barrel, it being, however, noticeable that in Fig. 6 many different forms are so placed in the barrel; but the chips may be of the same or different construction. Such chips, being constructed of metal, possess great strength and do not absorb any of the fluid. Being of greater specific gravity than the liquid they do not float and disturb the fluid when the beer is drawn off. They need not be boiled in order to be cleansed. Neither do they become sour or moldy or decay, as is the case with wooden chips. The chips are formed

of separated strips or plates of corrugated metal with openings therein and connected by cross-bars of metal, thereby producing a light and strong structure. The bars are also corrugated, and thus, while increased strength is attained, the chips may be packed or nested one on the other. The openings permit the air at the bottom to escape through the same, so as to reach the top of the fluid, and the sediment to gradually settle, such operations being effective in their nature, as the openings do not clog, and thus there are superior results.

The chips give more surface on which the yeast can settle, because the cross-bars keep the said chips separated. The half-round chips are preferably placed on top, so that when a fluid is clarified with isinglass the greatest part of the latter and of the yeast will settle on said chips.

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

1. A beer-chip formed of strips or plates of corrugated metal and cross-bars connecting the same, substantially as described.

2. A beer-chip formed of corrugated metallic strips or plates and cross-bars of corrugated metal connecting the same, substantially as described.

3. A beer-chip formed of strips or plates with openings therein and cross-bars connecting the same, said bars and plates being formed of corrugated metal, substantially as described.

4. A beer or other chip formed of a non-absorbent material having a greater specific gravity than that of the liquid in which it is employed and provided with openings and reinforcing-pieces, substantially as described.

JOHN J. WOLF.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. JENNINGS.