



Reverse Tap

Reversetap Business Proposal



開発背景



WHY?

これまでの生ビールの抽出方式

Drop Down方式



これまでの生ビールの抽出方式は
上から下に向かって注ぐDrop Down方式、
この方式の問題点は？

開発背景

従来のディスペンサー



普通過ぎる



遅い



高コスト

問題点

一般的なディスペンサーから抽出される生ビールは消費者の目を引くことができない。



500ccを注ぐのに15秒所要。
その間、従業員がレバーを操作するタイムロスが発生



非熟練の従業員の場合、ビールの無駄が発生、
従業員の業務効率が低下。



従来のTap方式

一般的な生ビールDrop Down式
ディスペンサー



problem

これまでの生ビールの抽出方式
上から下に向けて注ぐ
ドロップダウン方式には様々な問題があった。

- 抽出しながら空気に触れてしまい酸化
- 泡によるビールのロス
- 抽出が遅い
- 熟練のスキルが必要

Reverse Tap

新感覚の生ビールリバースディスペンサー



Solution

上から下ではなく、
下から上に湧き上がるリバースタップなら、
従来方式の問題を解消できます。

- 空気に触れないため、ビール本来の風味が損なわれない
- 無駄がほとんどない
- 抽出が速い
- トレーニングが不要
- 人件費の節約、マルチタスク
- 広告スクリーンによるPR効果



特許及び認証



特許及び認証

특허증
CERTIFICATE OF PATENT

등록번호 제 30-1498251 호
Patent No. 30-1498251

출원번호 제 10-2014-0085888 호
App. No. 10-2014-0085888

발행일자 2014년 07월 09일
Date of Issue July 9, 2014

등록일자 2015년 02월 25일
Date of Registration Feb 25, 2015

특허권자 (Inventor) 2014년 07월 09일
Inventor July 9, 2014

특허사실상권자 (Applicant) 등록사실상권자 기재
Applicant Registered Applicant

특허권자 (Inventor) 2015년 02월 25일
Inventor Feb 25, 2015

특허사실상권자 (Applicant) 등록사실상권자 기재
Applicant Registered Applicant

본 발명은 '특허법'에 따라 특허등록심부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.

2014년 07월 09일
특허청장
KOREAN INTELLECTUAL PROPERTY OFFICE
장영민

Declaration of Conformity

CE

Type of equipment: REVERSE TAP
Type designation (model): FSI V01 F, FSI V01 F and FSI V01 H
Manufacturer: National Plastic Company Limited

In accordance with the following Directive:
2014/53/EU The Electromagnetic Compatibility Directive

The following harmonized European standards and technical specifications have been applied:
EN 50321-1:2006+A1:2009 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar appliances - Part 1: Domestic
EN 61000-3-2:2014 Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)
EN 61000-3-3:2013 Limits for harmonic current emissions (equipment input current > 16 A per phase) and not subject to individual exemption
EN 50324:2010 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar appliances - Part 2: Immunity
EN 50324-2:2010 Electromagnetic compatibility - Requirements for household appliances, electric tools and similar appliances - Part 2: Immunity
EN 61000-3-2:2014+A1:2008 Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-3-3:2013 Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-2012 Electrical fast transients/burst immunity test
EN 61000-4-3:2006 Surge immunity test
EN 61000-4-6:2007 Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-11:2004 Voltage dips, short interruptions and voltage variations immunity tests

Test report issued by: EMC CTK Co., Ltd.

The CE Marking on this product and/or their packaging signifies that National Plastic Company Limited has the reference technical file available to the European Union authorities.

Place and date of issue: #B34, Woon-dong, Daejeon-gu, Ansan-si, Gyeonggi-do, Korea / 2015-08-25

Authorized Signatory: Name: _____ Title: _____ Signature: _____

TEST REPORT

CTK Co., Ltd.
100-dong, 114, Yeosu-ro, Cheongju-si, Chungcheong-do, Korea
Tel: +82-31-824-8551

Report No.: CTK-2015-0339-1
Page: 1/1 (00) Pages

1. Client
Name: National Plastic Company Limited
Address: #B34, Woon-dong, Daejeon-gu, Ansan-si, Gyeonggi-do, Korea
Date of Receipt: 2015-12-07

2. Manufacturer
Name: National Plastic Company Limited
Address: #B34, Woon-dong, Daejeon-gu, Ansan-si, Gyeonggi-do, Korea

3. Use of Report: For CE Report

4. Test Sample / Model: REVERSE TAP / PPV01

5. Date of Test: 2015-01-13 to 2015-01-22

6. Test Standard(method) used: EN 50321-1:2006+A1:2009+A2:2011
EN 50324-2:1997+A1:2001+A2:2008
EN 61000-3-2:2014
EN 61000-3-3:2013

7. Testing Environment: refer to 10 pages to 40 pages

8. Test Results: refer to 11 pages to 41 pages

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

Tested by: Kim Minhyuk, EMC Test Engineer
Approved by: Lee Sunwon, Technical Manager

2016-01-28

Republic of KOREA CTK Co., Ltd.

Declaration of Conformity

CE

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EN 61000-3-3:2013 Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-2012 Electrical fast transients/burst immunity test
EN 61000-4-3:2006 Surge immunity test
EN 61000-4-6:2007 Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-11:2004 Voltage dips, short interruptions and voltage variations immunity tests

Test report issued by: EMC CTK Co., Ltd.

The CE Marking on this product and/or their packaging signifies that National Plastic Company Limited has the reference technical file available to the European Union authorities.

Place and date of issue: #B34, Woon-dong, Daejeon-gu, Ansan-si, Gyeonggi-do, Korea / 2015-08-25

Authorized Signatory: Name: _____ Title: _____ Signature: _____

KMAR
인증번호: KA201347

품질경영시스템 인증서
엔피씨유
생각노 힘서서 단원주 대한호 289

적용기준
KS Q ISO 9001:2009 / ISO 9001:2008

인증범위
중과속시 시충상행음(컨테이너류, 파레트류, 필러류, 데이날류, 완강자류)에 대한 설계/개발 및 제조

위와 같이 품질경영시스템 규격에 적합함이 한국동률검정인증원에 의해 인증되었음을 증명함.

2015년 9월 23일

인증수탁업체: 7935, 01, 92, 인증유지유효기간: 2017. 10. 30.

한국동률검정인증원

ETL
Test report No.: ETLR0101131078

ROHS TEST REPORT
European Directive 2011/65/EU
Evaluation of RoHS Requirements for Electrical and Electronic Equipment

Test report No.: ETLR0101131078
Date of receipt: Nov 13, 2015
Date of issue: Jan 05, 2016
Date of period: Nov 13, 2015 - Jan 12, 2016

Applicant's name: National Plastic Company Limited
Address: #B34, Woon-dong, Daejeon-gu, Ansan-si, Gyeonggi-do, Korea
Manufacturer's name: Same as applicant
Address: Same as applicant
Product name: REVERSE TAP
Basic Model: PPV01
Multiple Models: N/A

Test Specifications:
Directive: 2011/65/EU
Standard(s): EN 50581 :2012, IEC 62321-5-1 :2013
Type of Category: Category 10, Automatic Dispenser

Test Result: This equipment which was evaluated has fulfilled with requirement of 2011/65/EU Directive for the substances: Pb, Cd, Hg, Cr(VI), PBBs and PBDEs
Final test result: : PASS

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Also this publication represent for the evaluation results of the issued test item only - any type of EEE, i.e. full product, module assembly, component or material including RoHS test result.
The evaluation results means only the tested item is complied with RoHS requirement according to the evaluation procedures which is described in this publication.

Tested by: Jeong Ryul, Bah
Reviewed by: Yeon Chan, Kang

Page 1 of 31

FCC Verification
According to FCC Part 15

Applicant Name: National Plastic Company Limited
Address: #B34, Woon-dong, Daejeon-gu, Ansan-si, Gyeonggi-do, Korea
Telephone: +82-31-362-2842

Declares that Product: REVERSE TAP
Model Name: FSI V01 F, FSI V01 F and FSI V01 H
Report Number: CTK-2015-00851

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Test Laboratory:
CTK Co., Ltd.
100-dong, 114, Yeosu-ro, Cheongju-si, Chungcheong-do, Korea
Registration Number: 809071
Tel: +82-31-338-9970
Fax: +82-31-425-9001

Responsible Party:
Company Name: _____
Address: _____
Phone: _____
Fax: _____
Name: _____
Signature: _____

Certificate No.: 2015010050

Certificate of Venture Business

Company: JIP CDSK1014
Representative: SE HANI, LEE
Company Address: #102 261706-10369, 100-A GIL, 95 DAEJON-TO, 30500, GYEONGGI-DO, KOREA
Type of Venture: Technology-Sector/Non-Approved Category
Appraiser: KIBO Technology Fund
Valid Date: 2015. 10. 14. - 2017. 10. 14.

This is to certify that the above-mentioned company is a Venture business in accordance with Article 25 of the Act on Special Measures for the Promotion of Venture Businesses.

2015. 10. 15

KIBO Chairman and President Kibo Technology Fund
The Republic of Korea

製品紹介



プレミアムモデル

プレミアムモデル



リバースタップ・プレミアム
シングルタップ

リバースタップ・プレミアム
ダブルタップ

製品名

製品説明

DC24V
350(W) x 375(D) x 140(H)mm
ステンレス304、ステンレス316L
重量：9kg



リバースタップカップ
(共用可)

容量：330ml、500ml、700ml
材質：プラスチック
下段プラグ内臓

普及型モデル

普及型モデル



リバースタップ 普及型モデル

リバースタップ シングルツール

製品名

製品説明

DC24V

239(W) x 301(D) x 100(H)mm

ステンレス 304、ステンレス 316L

重量: 2.2kg



リバースタップ 普及型モデル

リバースタップ シングルフラット

DC24V

208(W) x 278(D) x 28(H)mm

ステンレス 304、ステンレス 316L

重量 : 2.1kg

リバースタップ 製品ラインナップ



RT 400D



RT 520D



RT 700D

リバースタップ 製品ラインナップ



Reverse Tapの特長



Fresh Taste



ビールは空気に触れると、酸化して味が変わる？

リバースタップは抽出時に空気に触れないため、最後の一口までビール本来の風味をキープ。



リバースタップの特長

Speed Up !



これからはビール一杯のために長蛇の列に並ぶことはありません。

リバースタップは何と7秒で500ml 2杯を抽出します。



No Wastage !



これからは泡だらけで無駄になるビールはありません。

リバースタップは決められた量だけ抽出するので、ビールのロスがない。



No Training



コップをセットするだけで上手に注いでくれるスマートなビールマシン

**リバースタップはコップをセットするだけで、
自動で決められた量が抽出されるため、トレーニングが不要。**



Multi Tasking



ビールを注ぎながら、同時にレジ業務まで!!

リバースタップのおかげでいろんな業務を並行処理できる。

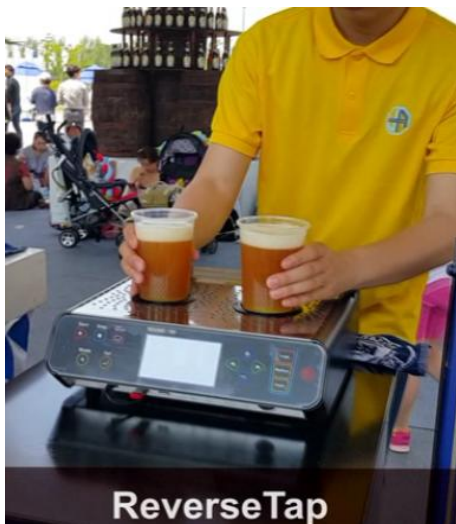


Cost Down

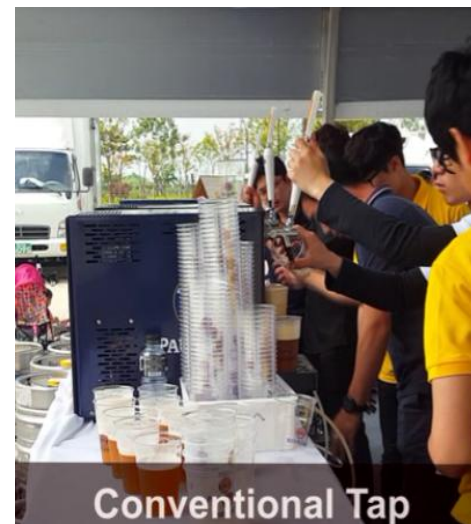


抽出時間は1杯でも、2杯でも7秒!

リバースタップ は一人が同時に2杯を抽出できるうえ、
レジ業務も可能なので、人件費削減につながる。



VS



泡の量調整



お客様によって好みが違う泡の量はどうやって調整すればいいの？

**リバースタップは泡の量を調整できるため、
お客様に最適な量の泡を提供できる。**



統計機能



今日売れた杯数は?1ヶ月間の販売量は?

リバースタップは売行きをリアルタイムで確認できる。



広告機能



広告スクリーンによる広告マーケティング

前面部のLCDディスプレイでCMや動画、音楽の再生が可能。



commercial



多様な飲料に使える



これ一台でいろんなドリンクを？

ビール、コーヒー、炭酸飲料、カクテルなどどんなドリンクにも使える。



リバースタップの適用例



フランチャイズ



生ビール専門店



スポーツ・レジャー産業



各地のお祭り



フードトラック

- Stadium
- Breweries
- Beer Franchise
- Hotel, Restaurant
- Food Truck
- Casino
- Fast food / Family Restaurant
- Festival
- Night Club, Bar
- Convenient Store
- Cruise Ship
- Craft beer / Micro Breweries



Stadium



Beer Franchise



Food Truck



Convenience Store



Festival



Craft Beer



Fast Food Restaurant



Night Club, Bar



会社紹介



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