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(54) **DRINKS CUP FOR PUBLIC USE**

TRINKBECHER ZUR ÖFFENTLICHEN VERWENDUNG

TASSE A USAGE PUBLIC

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Description

Technical field

[0001] The invention relates to a cup used to serve coffee, tea, milk and other similar drinks and made according to the preamble of claim 1.

[0002] WO 82/01813 discloses a shaped disposable insert and a holder thereof of the above mentioned kind. The insert is adapted in said holder having a bottom and side wall portions to define a receiving space for said insert. The insert comprises a thinwalled bottom portion and a sidewall joined thereto, said sidewall having a thinwalled lower portion and a relatively stiff upper portion . A relatively stiff upper collar is joined to and extending downwardly from an upper edge of the said sidewall. Furthermore the insert comprises means for locating said insert in said holder being formed by at least one projection extending anularly around one of the said stiff upper portion and said downwardly extending collar. This means are spaced from the insert upper edge and said projection engaging the sidewall portion of said holder near an upper edge of said holder to position said insert in said holder. The holder is characterised in a bottom portion and a sidewall to define receiving space for an insert. The holder sidewall has an inside surface and an outside surface and a recess extending annularly around upper portion of the holder sidewall in one of said inside surface and outside surface and adapted to receive a projection on an insert collar to locate the insert in the holder. The facing surfaces of the holder and of the insert comes into contact merely at the bottom surfaces and at the collar. The recess and the projection of the holder and of the insert are positioned in an intermediate level of the upper edge and of the lover edge of the collar.

[0003] WO 85/03490 discloses a drinking vessel comprising a first member adapted to hold liquid and a second vessel member associated with but separated from the first vessel member to form a barrier against the formation of condensation on the exterior surface of the second vessel member when cold liquid is contained in the first vessel member. In one embodiment, the first vessel member comprises a removable insert which conforms generally to the configuration of the second vessel member to form a double walled drinking vessel. A sanitari lip extends downwardly from the top edge of the insert and is proportioned and oriented to prevent a persons lip from contacting the second vessel member when the person takes a drink. The drinking vessel includes ribs or serrations or, preferably a plurality of protuberances and engagement ridges, ridge segments or recesses associated between the insert and the second vessel member to provide secure friction fit therebetween yet permitting the removal of the insert for disposal and subsequent replacement. The insert comes into contact with the first vessel only at the upper end, substantially in the region of the lip. The ribs or serrations are provided at the inner surface of the collar facing the outer upper portion of the surface of the second vessel member. The collar of the first vessel member is conical and oriented outwardly in the direction of the free edge. The free edge of the collar projects freely radially outward at a certain distance from the facing external surface of the second vessel member forming a sharp edge.

[0004] The aim of the invention is to provide a drink cup of the above mentioned type which may assure the maximum hygiene, avoid the loss of heat through the users hands, have a style and it may be of prized material and not fastidious for the user. Furthermore the invention aims to guarantee the ready application of the film to the container inside surface, without forming air pockets which prevent its adhesion and reduce its capacity allowing that the throwaway film stays fixed to the container during the use and can be readily removed subsequently.

[0005] The invention reaches the about mentioned aims with a drink cup of the kind described at the beginning which shows the combination of features of the characterising part of claim 1.

[0006] Claim 2 discloses a further improvement of the drink cup according to the invention.

[0007] Thus the invention provides a container for drinks, which may assure the maximum hygiene, avoid the loss of heat (in the case of hot drinks) through the user's hands, and, meanwhile, have a style and it may be made of prized material.

[0008] For these purposes the invention solves this problem with the application to the container of a covering constituted by a throwaway film made of waterproof proper material, having the shape of its inside surface.

[0009] The container and the throwaway film are made so that the throwaway film stays fixed to the container during the use and can be readily removed, subsequently.

[0010] The invention solves the problem of guaranteeing the ready application of the mentioned film to the container inside surface, without forming air-pockets which prevent its adhesion and reduce its capacity.

[0011] The invention is described in detail below, with the help of drawings illustrating particulars of the container and waterproof film.

Brief Description of Drawings

[0012] The following drawings relate to the application of the invention either to a coffee or a tea cup, but the same devices could be used on containers, whichever shape and dimension they have.

[0013] In particular:

picture No. 1 shows a coffee cup made according to this invention, on which a film of waterproof material is going to be inserted;

picture No. 2 shows the cup to which the said film

has been applied;
picture No. 3 shows a section of a cup with the waterproof film;
picture No. 4 shows a section of a tea-cup, according to the invention, without the waterproof film.

[0014] According to this invention, the cup is a set of a container (1) and a film made of waterproof material (4), having the shape of the container inside surface.

[0015] On its outside surface the container has a groove (2) parallel to the upper edge, distant one or two cm. from the edge itself (1a).

[0016] The groove (2) has such a dimension that it is able to lodge the semitoroidal section edge, which runs along the edge of the semitoroidal groove (5) of the film itself.

[0017] On the bottom of the container (1) there is a vent-hole (3), in order to facilitate both the film (4) application and its removing.

[0018] When the semitoroidal groove is placed on the edge of the container keeps fixed to it.

[0019] In accordance with the invention, the cups have any shape and dimension.

Claims

1. Drink cup for public use comprising:

   a) a container (1) made of ceramic, porcelain, glass or other proper material of any shape and dimension
   b) the container (1) having a circular groove parallel to its upper edge (1a) and a hole (3) on the bottom;
   c) a second container which is provided in combination with the first container (1) being made of a waterproof film (4) of proper material for example, plastic and which is intended to be inserted in the first container (1);
   d) the second container being provided with a bottom wall, side walls and an upper collar (6) superposing on the upper edge of the first container (1) and partially on the upper annular portion of the external surface of the side walls of the said first container (1).
   characterised in that
   e) the said second container (4) having shape and dimensions corresponding to the ones of the inner surface of the side and bottom walls and of the upper edge and of the upper annular portion of the first container (1) in such a way that the second container (4) adheres with its entire surface all over to the corresponding contact surface of the first container (1) for avoiding in combination with the hole (3) in the bottom of the first container (1) the forming of air pockets between the two containers (1,4);
   f) the said first container (1) having an annular groove (2) on the external surface of its side wall and the said second container (4) having an annular rib (5) cooperating with the said annular groove (2) when the said second container is inserted in the first container and both the annular groove (2) on the first container (1) and the annular rib (5) of the second container (4) being arranged in such a way that the annular rib (5) of the second container (4) is located at the free end edge of the collar (6) of the second container (4);
   g) the said internal rib (5) being obtained by forming a corresponding groove in the external surface of the collar (6) of the second container (4);
   h) the said second container (4) being provided with an annular flange directly at the end edge of the groove located at the free end edge of the collar (6).

2. Drink cup according to claim 1, **characterised in that** the upper edge of the first container is formed by a rounded convex surface.

Patentansprüche

1. Trinkbecher zur öffentlichen Verwendung, mit

   a) einem aus Keramik, Porzellan, Glas oder anderem passenden Werkstoff hergestellten Gefäß (1) beliebiger Form und Größe,
   b) wobei dieses Gefäß eine kreisförmige, zu seinem oberen Rand (1a) parallele Nut und eine Bohrung (3) in seinem Boden aufweist,
   c) und mit einem zweiten, in Verbindung mit dem ersten Gefäß (1) vorgesehenen Gefäß, das aus einem wasserdichten Film (4) aus beliebigem Werkstoff, z.B. Kunststoff besteht und zum Einsetzen in das erste Gefäß (1) bestimmt ist,
   d) wobei dieses zweite Gefäß eine Bodenwand, Seitenwände und einen oberen Kragen (6) aufweist, welch letzterer den oben Rand des ersten Gefäßes (1) und teilweise den oberen ringförmigen Teil der Außenfläche der Seitenwände des genannten ersten Gefäßes (1) übergreift,
   dadurch gekennzeichnet, dass
   e) das genannte zweite Gefäß (4) eine Form und Abmessungen aufweist, die derart derjenigen der Innenfläche der Seiten- und Bodenwänden, des oberen Randes und des oberen ringförmigen Teils des ersten Gefäßes entsprechen, dass das zweite Gefäß (4) mit seiner ganzen Fläche überall an der entsprechenden Berührungsfläche des ersten Gefäßes (1) anliegt,

um in Verbindung mit der Bohrung (3) in dem Boden des ersten Gefäßes (1) die Bildung von Luftblasen zwischen den beiden Gefäßen (1, 4) zu vermeiden,
f) das genannte erste Gefäß (1) eine ringförmige Nut (2) in der Außenfläche seiner Seitenwand aufweist, während das genannte zweite Gefäß (4) eine ringförmige Rippe (5) besitzt, die mit der genannten ringförmigen Nut (2) zusammenwirkt wenn das genannte zweite Gefäß in das erste Gefäß eingesetzt ist, wobei die ringförmige Nut (2) des ersten Gefäßes (1) und die ringförmige Rippe (5) des zweiten Gefäßes (4) derart angeordnet sind, dass die ringförmige Rippe (5) des zweiten Gefäßes (4) im freien Endrandbereich des Kragens (6) des zweiten Gefäßes (4) liegt,
g) wobei die genannte innere Rippe (5) durch Einformung einer entsprechenden Nut in der Außenfläche des Kragens (6) des zweiten Gefäßes (4) erhalten ist und
h) das genannte zweite Gefäß (4) mit einem ringförmigen Flansch direkt ah der Endkante der im freien Endrandbereich des Kragens (6) liegenden Nut versehen ist.

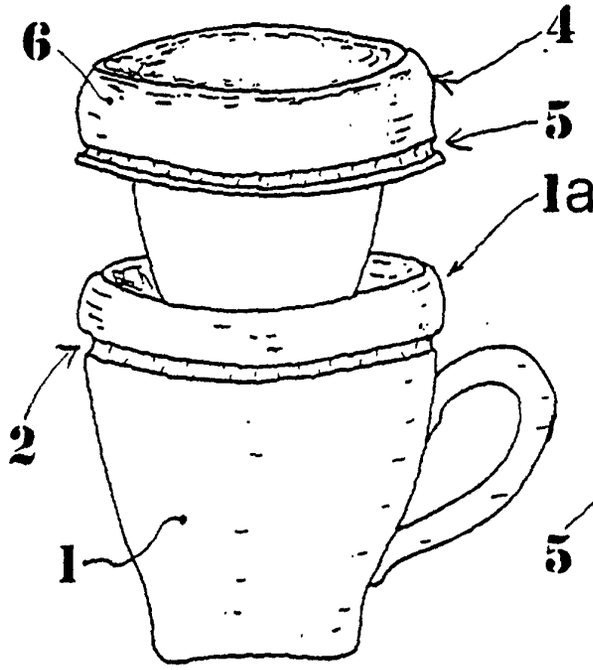
2. Trinkbecher nach Anspruch 1, **dadurch gekennzeichnet, dass** der obere Rand des ersten Gefäßes als abgerundete, konvexe Fläche ausgebildet ist.

Revendications

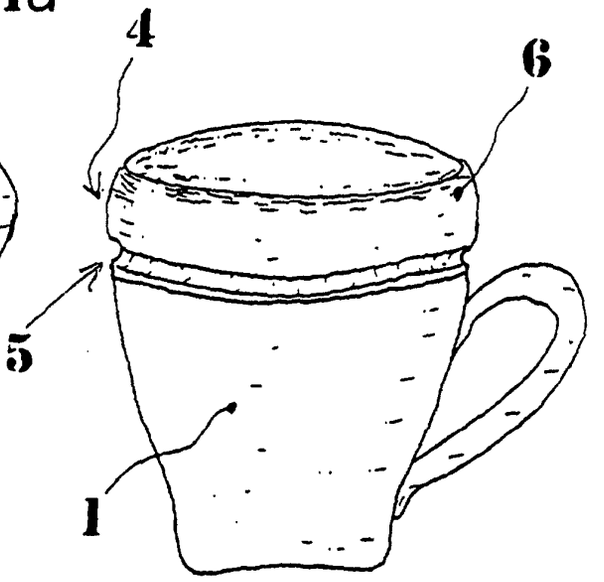
1. Verre à boire destiné à l'utilisation publique, comprenant:

a) un récipient (1) en céramique, porcelaine, verre ou une. autre matière appropriée de n'importe quelles forme et dimension
b) le récipient (1) comportant une rainure circulaire parallèle à son bord supérieur (la) et un trou au fond;
c) un deuxième récipient, prévu en combinaison avec le premier récipient (1), qui est constitué d'un film imperméable (4) d'une matière appropriée, par exemple plastique, et conçu pour être inséré dans le premier récipient (1);
d) le deuxième récipient comportant une paroi de fond, des parois latérales et un collier supérieur (6) posé sur le bord supérieur du premier récipient (1) et partiellement sur la partie annulaire supérieure de la surface extérieure des parois latérales dudit premier récipient (1),
caractérisé en ce que
e) ledit deuxième récipient (4) a une forme et des dimensions correspondantes à celles de la surface intérieure des parois latérales et de fond, du bord supérieur et de la partie annulaire supérieure du premier récipient (1) de manière que le deuxième récipient (4) adhère de toute sa surface contre la surface de contact correspondante du premier récipient (1) pour éviter, en combinaison avec le trou (3) au fond du premier récipient (1), la formation de poches d'air entre les deux récipients (1, 4);
f) ledit premier récipient (1) a une rainure annulaire (2) sur la surface extérieure de sa paroi latérale et ledit deuxième récipient (4) a une nervure annulaire (5) coopérant avec ladite rainure annulaire (2) lorsque ledit deuxième récipient est inséré dans le premier récipient et la rainure annulaire (2) du premier récipient (1) et la nervure annulaire (5) du deuxième récipient (4) sont les deux disposées de telle manière que la nervure annulaire (5) du deuxième récipient (4) est située au bord terminal libre du collier (6) du deuxième récipient (4);
g) ladite nervure intérieure (5) est réalisée en formant une rainure correspondante dans la surface extérieure du collier (6) du deuxième récipient (4);
h) ledit deuxième récipient (4) comporte une bridé annulaire directement au bord terminal de la rainure située au bord terminal libre du collier (6).

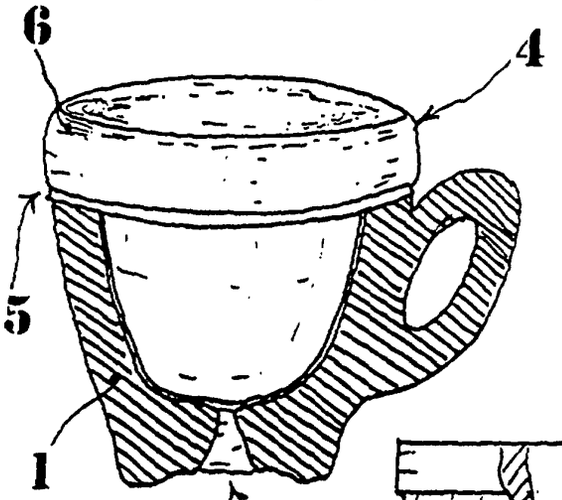
2. Verre à boire selon la revendication 1, **caractérisé en ce que** le bord supérieur du premier récipient est constitué d'une surface convexe arrondie.



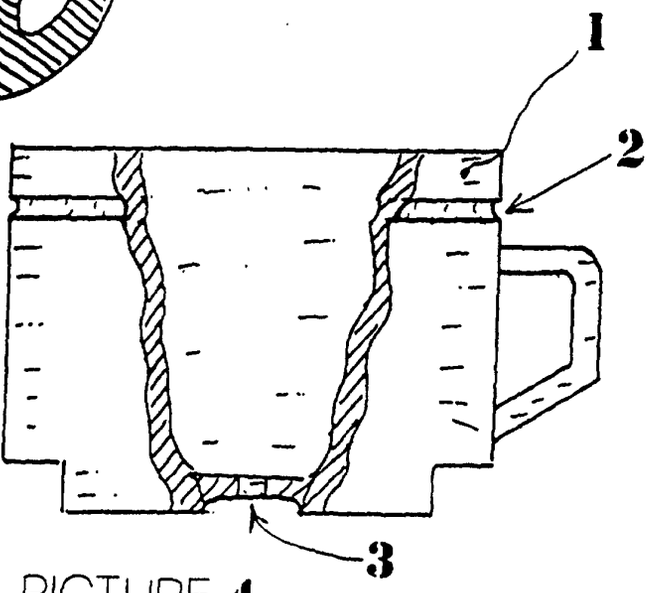
PICTURE 1



PICTURE 2



PICTURE 3



PICTURE 4