

Title (en)

TEA FILTER PACK FOR AUTOMATIC BREWERS

Title (de)

TEEFILTERPACKUNG FÜR AUTOMATISCHE TEEMASCHINE

Title (fr)

FILTRE A THE POUR MACHINES A CAFE AUTOMATIQUES

Publication

EP 0705206 A1 19960410 (EN)

Application

EP 94921189 A 19940516

Priority

- US 9405428 W 19940516
- US 8405193 A 19930629

Abstract (en)

[origin: WO9501293A1] A conformable, self-aligning, high extraction efficiency tea filter pack (1) capable of flavor extraction efficiencies comparable to those obtained using an identical quantity of bulk tea leaves and a paper filter under identical brewing conditions, but which exhibits substantially consistent pot-to-pot brew strength for any given automatic drip coffee maker. The preferred filter pack is formed from two layers (10, 20) of flexible material which are secured to one another about their outermost periphery with a predetermined quantity of tea leaves (50) housed within a brew chamber (40) formed between the two layers (10, 20). The brew chamber (40) exhibits a maximum volume between about 100 percent and about 400 percent greater than the volume of the dry tea leaves contained therein. The discharge flow rate (F3) from the brew chamber is slower than the inlet flow rate (F1) into the brew chamber to permit a buildup of water and flooding of the brew chamber (40). The flexible conformable side wall surrounding the brew chamber (40) extends upwardly a vertical distance which is at least sufficient to capture enough hot water to totally immerse the brew chamber (40) when the brew chamber (40) is in its fully expanded condition. This causes the tea leaves (50) within the chamber (40) to expand and float throughout the remaining portions of the brew cycle, thereby establishing a steady state brewing condition which is highly effective in maximizing tea/water contact as the hot water passes through the brew chamber (40) on its way to the pot.

IPC 1-7

B65D 81/00; **B65D 81/34**

IPC 8 full level

A47J 31/06 (2006.01); **B65D 81/00** (2006.01); **B65D 85/804** (2006.01)

CPC (source: EP US)

A47J 31/0615 (2013.01 - EP); **B65D 85/8061** (2020.05 - EP US)

Citation (search report)

See references of WO 9501293A1

Cited by

WO2018015423A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

WO 9501293 A1 19950112; AU 7200794 A 19950124; CA 2165691 A1 19950112; CA 2165691 C 20030909; CN 1126462 A 19960710; EP 0705206 A1 19960410

DOCDB simple family (application)

US 9405428 W 19940516; AU 7200794 A 19940516; CA 2165691 A 19940516; CN 94192630 A 19940516; EP 94921189 A 19940516