

Title (en)  
COMPOSITE FILTER COMPRISING BIOLOGICAL COMPOSITION

Title (de)  
VERBUNDFILTER MIT EINER BIOLOGISCHEN ZUSAMMENSETZUNG

Title (fr)  
FILTRE COMPOSITE COMPRENANT UNE COMPOSITION BIOLOGIQUE

Publication  
**EP 2517584 A1 20121031 (EN)**

Application  
**EP 10838536 A 20100413**

Priority

- CN 200910263548 A 20091223
- CN 2010071732 W 20100413

Abstract (en)  
This invention involves a type of composite filter tips, which contains biological composition adhering to the carrier that is added to the tow filter rod when the rod is made. The biological composition consists of cobalt porphyrin and ginkgo leaf extract, and the mass ratio of the former to the latter is 1:1~80. Such filter tip can not only reduce releasing quantity of harmful ingredients such as free radical, benzopyrene [a] and tobacco specific nitrosamine in smoke, but also make acute toxicity, subchronic toxicity, cytotoxicity and mutagenicity lower than those of the control group. In addition, no adverse impact is imposed on smoking quality of the cigarette.

IPC 8 full level  
**A24B 15/16** (2006.01); **A24B 15/20** (2006.01); **A24B 15/28** (2006.01); **A24D 3/02** (2006.01); **A24D 3/06** (2006.01)

CPC (source: EP)  
**A24D 3/06** (2013.01); **A24D 3/14** (2013.01)

Cited by  
CN104026732A; CN105167190A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2517584 A1 20121031**; **EP 2517584 A4 20131225**; **EP 2517584 B1 20150902**; CN 101708072 A 20100519; CN 101708072 B 20110413; WO 2011075970 A1 20110630

DOCDB simple family (application)  
**EP 10838536 A 20100413**; CN 200910263548 A 20091223; CN 2010071732 W 20100413