

Title (en)
SEALING ARRANGEMENT FOR TUNNEL SEGMENTS

Title (de)
DICHTANORDNUNG FÜR TUNNEL-SEGMENTE

Title (fr)
SYSTEME D'ETANCHEITE POUR SEGMENTS DE TUNNELS

Publication
EP 0995013 A1 20000426 (DE)

Application
EP 98936151 A 19980613

Priority
• DE 9801604 W 19980613
• DE 19729019 A 19970708

Abstract (en)
[origin: US6267536B1] A sealing arrangement (1) has two abutting construction elements made of concrete, steel, reinforced concrete, cast iron or other materials, as well as a sealing section made of an elastomer material which sealingly bridges the gap between the two construction elements. The construction elements are in particular segments (2, 2") which are assembled into a tubular tunnel with transverse and longitudinal joints (3). Each segment is preferably provided with a continuous groove on all its abutting sides. An elongated sealing profile (5) is located in each groove, forming a sealing frame with frame corners. The sealing section has elongated open and/or closed flutes arranged on the section base side and elongated ducts arranged between the flutes and the section front side. The sealing section (5) also has at least two groups (A, B) of ducts of which the first (A) is located directly above the flutes while the other (B) is laterally offset with respect to the flutes. Both groups (A, B) of ducts lie substantially in a plane parallel to the base or front side of the section.

IPC 1-7
E21D 11/38

IPC 8 full level
E21D 11/38 (2006.01)

CPC (source: EP US)
E21D 11/385 (2013.01 - EP US)

Citation (search report)
See references of WO 9902820A1

Cited by
DE102009015232A1; DE102006056055B4; WO2005088075A1; WO2010112015A3; WO2011063804A2; DE102009056063A1; US9222358B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
US 6267536 B1 20010731; AT E230064 T1 20030115; AU 8531198 A 19990208; CN 1076072 C 20011212; CN 1256737 A 20000614; DE 19826482 A1 19990114; DE 59806744 D1 20030130; EP 0995013 A1 20000426; EP 0995013 B1 20021218; HK 1026727 A1 20001222; JP 2002510368 A 20020402; WO 9902820 A1 19990121

DOCDB simple family (application)
US 42332399 A 19991104; AT 98936151 T 19980613; AU 8531198 A 19980613; CN 98805144 A 19980613; DE 19826482 A 19980613; DE 59806744 T 19980613; DE 9801604 W 19980613; EP 98936151 A 19980613; HK 00105846 A 20000915; JP 50796299 A 19980613