

Title (en)
SEALING PROFILE FOR TUNNEL-SEGMENTS

Publication
EP 0414137 B1 19921021 (DE)

Application
EP 90115737 A 19900817

Priority
• DE 3927474 A 19890819
• DE 3930870 A 19890915

Abstract (en)
[origin: EP0414137A1] The invention relates to a sealing profile of elastomeric material for tunnel segments provided with an encircling groove (groove depth d, groove width w), which sealing profile has a) grooved channels (3, 4, 5) running in the longitudinal direction on its base side (profile width v), b) at least two passages (6, 7) likewise running in the longitudinal direction, and c) side flanks (10, 11). The essence of the invention is that d) expanding feet (8, 9) are arranged on either side at a profile width v, which is less than the groove width w, which expanding feet (8, 9) run up at an angle alpha (with respect to the profile base line X) before the sealing profile is inserted into the segment groove (1), the expanding feet (8, 9) being curved inwards (i.e. towards the longitudinal centre plane Y) with simultaneous increase in the angle alpha after the sealing profile is inserted in the groove, and that e) there is a system of webs (A, B) in each profile half, which webs (A, B) run rectilinearly and continuously from the base side to the back of the profile, the outer web (A) running in such a way that it is tangent to the passage (6, 7) - on the outside (position 6', 7') - lying between the webs (A) and (B) and to the flank corner (10', 11'), whereas the inner web (B) runs towards the profile centre at an angle beta (with respect to the longitudinal centre plane Y) while being tangent on the inside (position 6'', 7'') to the same passage (6, 7) and tangent on the outside (position 4', 4'') to the inner grooved channel (4). <IMAGE>

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)

Cited by
FR2685935A1; US5074711A; EP0522912A1; FR2678982A1; EP0534277A1; WO9314297A1

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

DOCDB simple family (publication)
EP 0414137 A1 19910227; EP 0414137 B1 19921021; AT E81706 T1 19921115; DE 4026076 A1 19910221; DE 59000373 D1 19921126; DE 9017615 U1 19910328; DK 0414137 T3 19930215; ES 2036384 T3 19930516; GR 3006590 T3 19930630; US 5074711 A 19911224

DOCDB simple family (application)
EP 90115737 A 19900817; AT 90115737 T 19900817; DE 4026076 A 19900817; DE 59000373 T 19900817; DE 9017615 U 19900817; DK 90115737 T 19900817; ES 90115737 T 19900817; GR 920402999 T 19921218; US 57012590 A 19900817