

Title (en)
Tunnel lining

Title (de)
Tunnelauskleidung

Title (fr)
Revêtement de tunnels

Publication
EP 0845579 B1 20021009 (DE)

Application
EP 97810938 A 19971202

Priority
CH 294396 A 19961202

Abstract (en)
[origin: EP0845579A1] The cladding comprises panels (25) which have fitting holes (37) spaced over their area to fit over studs (13) anchored into the tunnel wall (43). One side of each panel has a recessed profile around each hole to locate a tapering profile elastic grip (17) fitted over the stud. A second elastic grip (19) is fitted over the stud on the other side of the panel to secure the panel. The grips are secured by threaded fastener (21) screwed into the end of the stud. The inner grip locates on a thrust grip on the stud. The fitting holes in the panels are wider than the studs to provide a non-critical alignment. The panels are made of a sandwich construction.

IPC 1-7
E21D 11/00; **E21D 11/38**; **E21D 21/00**

IPC 8 full level
E01F 8/00 (2006.01); **E21D 11/00** (2006.01); **E21D 11/38** (2006.01); **E21D 21/00** (2006.01)

CPC (source: EP)
E01F 8/0058 (2013.01); **E21D 11/003** (2013.01); **E21D 11/006** (2013.01); **E21D 11/38** (2013.01); **E21D 11/383** (2013.01); **E21D 21/0086** (2013.01)

Cited by
EP3357680A1; FR2826991A1; CN111677524A; EP1350922A1; FR2838159A1; WO2008009344A3

Designated contracting state (EPC)
AT CH DE FI FR GB IT LI

DOCDB simple family (publication)
EP 0845579 A1 19980603; **EP 0845579 B1 20021009**; AT E225901 T1 20021015; DE 59708433 D1 20021114

DOCDB simple family (application)
EP 97810938 A 19971202; AT 97810938 T 19971202; DE 59708433 T 19971202