

Title (en)
SYSTEM AND METHOD FOR CONSOLIDATING THE GROUND AROUND TUNNELS

Title (de)
SYSTEM UND VERFAHREN ZUR VERFESTIGUNG DES BODENS UM TUNNEL

Title (fr)
SYSTÈME ET PROCÉDÉ DE CONSOLIDATION DU SOL AUTOUR DE TUNNELS

Publication
EP 4303402 A1 20240110 (EN)

Application
EP 23183954 A 20230706

Priority
IT 202200014413 A 20220707

Abstract (en)
A system for manufacturing a service structure for the support of men and means working to consolidate the ground around a tunnel (G) overlying a way (S), the latter having a longitudinal extension along a first axis (X) and at least one opening (A) for the passage of one or more vehicles. The system comprises a load-bearing structure (100) having an extension along a second axis (Y) intended to be positioned above the way (S) at the at least one opening (A) of the tunnel (G) which comprises one or more support areas (110) for men or means during the operation, and a protection wall (200) designed to be interposed between the load-bearing structure (100) and the way (S). The protection wall (200) is substantially continuous so as to prevent men or objects from falling on the way (S).

IPC 8 full level
E21D 11/10 (2006.01); **E21D 19/00** (2006.01)

CPC (source: EP)
E21D 11/10 (2013.01); **E21D 11/102** (2013.01); **E21D 19/00** (2013.01)

Citation (applicant)
CN 111794783 A 20201020 - CARS RAILWAY ENG RES INST, et al

Citation (search report)
• [A] CN 111794783 A 20201020 - CARS RAILWAY ENG RES INST, et al
• [A] CN 113074005 A 20210706 - CHINA RAILWAY ENGINEERING EQUIPMENT GROUP CO LTD
• [A] CN 109291256 A 20190201 - THE 5TH ENG LTD OF THE 11TH ENG BUREAU OF CHINA RAILWAY, et al
• [A] CN 204984438 U 20160120 - HUNAN WUXIN TUNNEL INTELLIGENT EQUIPMENT CO LTD
• [A] CN 110130937 A 20190816 - FUTE INTELLIGENT EQUIPMENT CHONGQING CO LTD

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

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

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