

Title (en)
METHOD AND FALSEWORK FOR CONSTRUCTING BRIDGES OF PRESTRESSED CONCRETE

Publication
EP 0032959 B1 19840328 (DE)

Application
EP 80100241 A 19800118

Priority
EP 80100241 A 19800118

Abstract (en)
[origin: EP0032959A1] 1. A method for the section-wise construction of reinforced concrete bridges wherein, starting from one end of the bridge, the bridge sections are manufactured one after the other using shuttering carried by an advanceable scaffold, wherein the individual bridge sections (18, 20) are reinforced and concreted in position on the shuttering (17) which rests on the scaffold (16) and, after completion of a section, the scaffold together with the shuttering supported thereon is lowered and advanced by the length of a bridge section on a displacement track (32) extending in the longitudinal direction of the bridge, wherein, in each case, the parts of the scaffold and/or shuttering, the path of travel of which would pass through the region of a support pier (12), are kept out of this region by moving them, and wherein the scaffold is raised to the level of the bridge superstructure on reaching the next bridge section, whereupon a section adjoining the last constructed bridge section is reinforced and concreted, characterised in that, in each case, bridge sections (18, 20) are constructed with a length which amounts to 1/2, 1/3 or 1/4 of the span of the bridge between two piers (12), wherein the bridge sections (20) present as a whole between two piers are supported directly by auxiliary supports (30) which remain standing until the pre-stressing from pier to pier is completed ; in that the scaffold is displaced stepwise over each section on a displacement track (32) assembled on the ground ; and in that the scaffold parts and/or shuttering parts, the path of travel of which would pass through a support pier (12) or an auxiliary support (30), are in each case removed only for the length of an advance step, by displacing them and/or pivoting them out of the way, and are reinserted after the next advance step, wherein the non-removed parts of the scaffold are always held together, together with its laterally extending projecting sections, as a displaceable constructional unit.

IPC 1-7
E01D 21/04; E01D 21/02

IPC 8 full level
E01D 21/10 (2006.01)

CPC (source: EP)
E01D 21/10 (2013.01); **E01D 2101/28** (2013.01)

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Cited by
CN113430959A; CN110670491A; CN102108784A; DE3247326A1; CN114606873A; CN109457619A; CN111827126A; DE3836568A1; DE3836568C2; WO2022029741A1; US11479929B2; US11885083B2

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