

Title (en)

Method of excavation for underground structures of variable cross sectional area

Title (de)

Verfahren zum Bohren von unterirdischen Strukturen mit variabler Grösse des Querschnittes

Title (fr)

Procédé d'excavation de structures souterraines à section transversal de surface variable

Publication

**EP 0781895 B1 20011017 (EN)**

Application

**EP 96110771 A 19960703**

Priority

JP 35302495 A 19951228

Abstract (en)

[origin: EP0781895A1] A method and an apparatus of excavation for underground structures of variable cross sectional area are provided in which a shield excavator of large cross sectional area is used as a main machine (1), and another shield excavator of smaller cross sectional area than the main machine (1) is used as an auxiliary machine (2). That portion of the underground structure of large cross section is excavated using the main machine (1) with the auxiliary machine (2) housed inside thereof and operating jointly, and for that portion of the underground structure of small cross section, the auxiliary machine (2) is advanced out of the main machine (1) and excavation proceeds with the auxiliary machine (2) only. Meanwhile, the main machine (1) is left on standby at the next portion of the structure of large cross section, and when the auxiliary machine (2) reaches that point, it is re-inserted into the main machine (1), and then excavation proceeds again using the main machine (1) with the auxiliary machine (2) housed inside and interlocked therewith for joint operation. <IMAGE>

IPC 1-7

**E21D 9/10**; **E21D 9/08**

IPC 8 full level

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CPC (source: EP)

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Cited by

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