

Title (en)  
Underground seal, especially for securing an excavation

Title (de)  
Untergrundabdichtung, insbesondere Baugrubensicherung

Title (fr)  
Étanchéité souterraine, en particulier pour une excavation

Publication  
**EP 1233110 A3 20021120 (DE)**

Application  
**EP 02001478 A 20020122**

Priority  
DE 10107786 A 20010216

Abstract (en)  
[origin: EP1233110A2] The sealing system consists of an underground sealing wall (1) with sealing floor (3) connected to its foot (2), of high pressure injection bodies (4). The wall foot is of concrete and/or steel, and the wall section above the foot consists of a sealing material with a strength, which is lower than that of the foot. The foot is constructed from pre-fabricated concrete sections, steel reinforcements, and/or contractor concrete. The strength of the wall above the foot is for resistance to water pressure differentials only. Supporting sheet pile elements (5,6) are fitted into the wall.

IPC 1-7  
**E02D 19/12**; E02D 19/06; E02D 5/20; E02D 19/18; E02D 27/50; E02D 15/06

IPC 8 full level  
**E02D 19/12** (2006.01)

CPC (source: EP)  
**E02D 17/13** (2013.01); **E02D 19/12** (2013.01); **E02D 19/18** (2013.01)

Citation (search report)  
• [A] DE 3047391 A1 19820616 - GKN KELLER GMBH  
• [A] DE 3534655 A1 19870416 - BILFINGER BERGER BAU [DE]  
• [A] DE 19832935 C1 19991216 - BAUER SPEZIALTIEFBAU [DE]

Cited by  
CN105040701A; CN115233717A; CN104674827A; DE102019005437A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1233110 A2 20020821**; **EP 1233110 A3 20021120**; **EP 1233110 B1 20060222**; AT E318344 T1 20060315; DE 50205846 D1 20060427

DOCDB simple family (application)  
**EP 02001478 A 20020122**; AT 02001478 T 20020122; DE 50205846 T 20020122