

Title (en)
Method for replacing a loadbearing wall

Title (de)
Verfahren zum Ersetzen einer tragenden Wand

Title (fr)
Procédé pour le remplacement d'un mur porteur

Publication
EP 2251503 A2 20101117 (EN)

Application
EP 10004866 A 20100507

Priority
EE U200900045 U 20090508

Abstract (en)
The presented solution concerns the replacement of a loadbearing wall (1) on infirm soil. For this a recess (2) is created on both sides of the loadbearing wall (1), piles (3) are driven at the bottom and the recess is supported with a temporary supporting wall (6). On-pile foundation (8) is built on top of the piles (3). Cross-beams (12) are installed under the loadbearing columns (11) supporting the loadbearing wall (1), and the recess (2) is backfilled and compacted. Temporary supports (18) are installed on both sides of the loadbearing wall (1) on all floors, and openings are cut into the loadbearing wall (1) for loadbearing columns (11), and the loadbearing columns (11) are installed to cross-beams (12). Then a hole is cut for the loadbearing beams (23) into the loadbearing wall (1) for a half of its thickness under the ceiling structure (17), and first one loadbearing beam (23) and then the second loadbearing beam (23) is mounted to the loadbearing columns (11), the space between the loadbearing beams (23) is filled with a fire-retardant and sound insulating material (26) and then the section (27) of the loadbearing wall under the loadbearing beams (23) is demolished. Then the previous installation of loadbearing columns and the loadbearing beam is repeated in all the spaces between the columns until the whole column-beam system is complete.

IPC 8 full level
E04G 23/02 (2006.01)

CPC (source: EP)
E04G 23/0229 (2013.01); **E04G 23/0274** (2013.01)

Citation (applicant)
• JP 2002227303 A 20020814 - TAKENAKA KOMUTEN CO
• JP S57205629 A 19821216 - KAJIMA CORP

Cited by
CN104863380A; CN114457842A; CN117967092A; CN111962901A; CN114517596A; CN109403654A; CN117868556A

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2251503 A2 20101117; EP 2251503 A3 20131030; EP 2251503 B1 20141001; EE 00888 U1 20100115

DOCDB simple family (application)
EP 10004866 A 20100507; EE U200900045 U 20090508