

Title (en)
Stairway manufacture

Title (de)
Vorrichtung zum Herstellen einer Treppe

Title (fr)
Dispositif de fabrication d'un escalier

Publication
EP 0941825 A2 19990915 (EN)

Application
EP 99650021 A 19990311

Priority
IE 980181 A 19980311

Abstract (en)
A set of L-shaped modular step forming elements (10) are arranged within a mould (20) on support rails (21) to define a stairway of steps having a desired riser and tread. Each element (10) comprises a steel sheet bent intermediate its ends into an L-shape having a riser panel (11) and a tread panel (12). Spaced-apart stringer panels (23,24) which engage the elements (10) define a required stairway width and end panels extending between the stringer panels (23,24) close off each end of the mould (20) to define the length of the stairway. Steel reinforcement such as bars or a cage (28) is mounted on the step forming elements (10) and then concrete (29) is poured into the mould (20) covering the cage (28). A poker vibrator is inserted into the concrete (29) and vibrated to settle the concrete (29) and exclude air from the mould (20). A heating element (26) may be operated to accelerate the setting of the concrete (29) in the mould (20). After the concrete is set the stairway thus formed is removed from the mould. <IMAGE>

IPC 1-7
B28B 7/22

IPC 8 full level
B28B 7/22 (2006.01)

CPC (source: EP)
B28B 7/225 (2013.01)

Cited by
CN109109139A; US2017239838A1; US10500760B2; CN116985259A; CN114179198A; EP3910129A1; FR3110188A1; CN117697953A

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

DOCDB simple family (publication)
EP 0941825 A2 19990915; EP 0941825 A3 20001213; EP 0941825 B1 20040818; AT E273780 T1 20040915; DE 69919432 D1 20040923

DOCDB simple family (application)
EP 99650021 A 19990311; AT 99650021 T 19990311; DE 69919432 T 19990311