

Title (en)
Self-supporting staircase with component units.

Title (de)
Selbsttragende Elementtreppe.

Title (fr)
Escalier autoportant à composants unitaires.

Publication
EP 0276423 A2 19880803 (DE)

Application
EP 87118141 A 19871208

Priority
DE 3702278 A 19870127

Abstract (en)
[origin: JPH01146052A] PURPOSE: To simplify structure and to firmly and rapidly build up a staircase of optional form by connecting only plural kinds of completely finished standardized parts to constitute the staircase. CONSTITUTION: Handrail parts 2 connecting each connecting frame 1 are arranged at the upper ends of the required number of U-shaped connecting frames 1, and staircase steps 3 of specified shape are mounted and fixed into specified positions near the lower ends of the connecting frames 1 through clamp fittings. These elements are standardized, mass-produceable and economically manufactured and fitted to obtain an outdoor staircase usable without special structure substantially for an optional flight of stairs.

Abstract (de)
Selbsttragende Elementtreppe, bestehend aus U-förmig gebogenen Stahlrohrbügel (1), die quer zum Treppenlauf stehen. Diese Bügel werden an ihren oberen offenen Enden durch Handlaufteile (2) verbunden, die ebenso aus gebogenem Stahlrohr mit an einer Seite angeschweißter Verbindungsmuffe bestehen. In ihrem unteren Bereich werden die Rohrbügel durch die Trittstufen (3) verbunden, die an ihren vier Ecken Rohrschellen-Klemmverbindungen besitzen. Zwei verschiedene Trittstufenformen ermöglichen den Bau jedes gewünschten Treppenlaufes.

IPC 1-7
E04F 11/12

IPC 8 full level
E04F 11/02 (2006.01); **E04F 11/038** (2006.01)

CPC (source: EP US)
E04F 11/038 (2013.01 - EP US); **E04F 11/112** (2013.01 - EP US); **E04F 2011/0209** (2013.01 - EP US)

Cited by
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Designated contracting state (EPC)
AT BE CH ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0276423 A2 19880803; **EP 0276423 A3 19890426**; **EP 0276423 B1 19910424**; AT E62966 T1 19910515; CA 1295453 C 19920211; DE 3702278 A1 19880804; DE 3702278 C2 19951116; DE 8718004 U1 19920730; JP H01146052 A 19890608; JP H0444655 B2 19920722; NO 164362 B 19900618; NO 164362 C 19900926; NO 880293 D0 19880125; NO 880293 L 19880728; US 4881351 A 19891121

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