

## Title (en)

DRAIN FORMING EQUIPMENT FOR REINFORCING SOFT GROUND, AND METHOD AND STRUCTURE FOR ARRANGING DRAINS

## Title (de)

AUSRÜSTUNG FÜR DIE SCHAFFUNG EINER DRAINAGE MIT VERSTÄRKUNG WEICHEN BODENS, UND VERFAHREN UND EINRICHTUNG ZUR ANORDNUNG DER DRAINAGE

## Title (fr)

EQUIPEMENT DE FORMATION DE DRAINS DESTINES AU RAFFERMISSEMENT DE SOLS MEUBLES, PROCEDE ET STRUCTURE DE DISPOSITION DE CES DRAINS

## Publication

**EP 0822295 A4 19980715 (EN)**

## Application

**EP 96909391 A 19960415**

## Priority

- KR 19950008913 A 19950415
- KR 19950011560 A 19950511
- KR 9600054 W 19960415

## Abstract (en)

[origin: EP0822295A1] Disclosed is a drain structure and an arrangement method thereof for reinforcing a soft ground, and the apparatuses which are used in the formation of the drain. The invention provides a drain pack having a net portion and a reinforcement portion as well as a rectangular drain pack. Also, the invention provides a drain structure and an arrangement method in which an effective draining radius is uniform. As well, the invention provides a polygonal guide casing for burying the pack underground without any twisting of the pack, and a driving apparatus for installing perpendicularly the drain into the highest depth of a soft ground without any distortion of the guide casing. Thus, a drain arranging method and apparatuses for forming the drain maximize a draining effect and expedite fast ground sink. <IMAGE> <IMAGE>

## IPC 1-7

**E02D 3/10**

## IPC 8 full level

**E02B 11/00** (2006.01); **E02D 3/10** (2006.01)

## CPC (source: EP)

**E02B 11/00** (2013.01); **E02D 3/08** (2013.01); **E02D 3/10** (2013.01)

## Citation (search report)

- [XA] EP 0499442 A2 19920819 - HEPWORTH BUILDING PROD [GB]
- [A] US 4024719 A 19770524 - RISSEEUW PAUL
- [A] US 4745979 A 19880524 - MORIMOTO TATSUO [JP]
- [A] US 5037240 A 19910806 - SHERMAN LYNN D [US]
- [A] GB 1224646 A 19710310 - CEMENTATION CO LTD [GB]
- [A] GB 2250762 A 19920617 - FEA KINS GRAHAM ALLAN, et al
- [A] EP 0526743 A1 19930210 - MORRIS T RICHARD [US]
- [A] US 3881319 A 19750506 - KATAGIRI KOTARO, et al
- [A] EP 0085742 A1 19830817 - TEIJIN LTD [JP], et al
- [A] US 3928979 A 19751230 - TERASHIMA OSAMU, et al
- See references of WO 9633313A1

## Cited by

ES2562841A1; WO2017037309A1

## Designated contracting state (EPC)

BE DE DK ES FI FR GB GR IE IT LU MC NL PT SE

## DOCDB simple family (publication)

**EP 0822295 A1 19980204; EP 0822295 A4 19980715**; AP 9701120 A0 19971031; AR 001630 A1 19971126; AU 5290196 A 19961107; BG 101965 A 19980529; BR 9608189 A 19990504; CA 2218239 A1 19961024; EA 199700319 A1 19980430; IL 117890 A0 19970415; MX 9707903 A 19971129; NO 974751 D0 19971014; NO 974751 L 19971212; OA 10524 A 20020429; PE 29297 A1 19970912; PL 323155 A1 19980316; SV 1996000024 A 19971015; TN SN96060 A1 19981231; TR 199701175 T1 19980521; TW 303408 B 19970421; UY 24205 A1 19960514; WO 9633313 A1 19961024

## DOCDB simple family (application)

**EP 96909391 A 19960415**; AP 9701120 A 19960415; AR 33617796 A 19960415; AU 5290196 A 19960415; BG 10196597 A 19971015; BR 9608189 A 19960415; CA 2218239 A 19960415; EA 199700319 A 19960415; IL 11789096 A 19960412; KR 9600054 W 19960415; MX 9707903 A 19960415; NO 974751 A 19971014; OA 70106 A 19971014; PE 00026196 A 19960415; PL 32315596 A 19960415; SV 1996000024 A 19960415; TN SN96060 A 19960415; TR 9701175 T 19960415; TW 85104395 A 19960412; UY 24205 A 19960415