

## Title (en)

Device for preparing and setting bonding charges.

## Title (de)

Vorrichtung zum Vorbereiten und Stellen von Vergusszusammensetzungen.

## Title (fr)

Dispositif destiné à la préparation et à la mise en place de charges de scellement.

## Publication

**EP 0020270 A1 19801210 (FR)**

## Application

**EP 80400761 A 19800529**

## Priority

FR 7914082 A 19790601

## Abstract (en)

[origin: US4358227A] The invention relates to a device for the preparation and injection of sealing cement for bolts in propping gallery roofs and walls in mines, quarries or tunnels. The device of the invention comprises a flexible pouch contained in a rigid housing which is connected to a liquid supply system and an injection nozzle that is double-walled along its entire length, the inner nozzle receiving pulverulent cement from the flexible pouch and the outer ring of the nozzle being supplied with water. Thus, the cement and water are separately introduced into a bore for the bolts and the mixing process takes place in the bore.

## Abstract (fr)

Le dispositif comporte: une poche (5) déformable contenue dans une enceinte (4) rigide, et une canule (11) d'injection à double paroi sur toute sa hauteur, alimentée dans sa partie centrale en ciment par l'intermédiaire de la poche (5) déformable et alimentée en eau dans sa partie annulaire, l'enceinte (4) rigide étant reliée à un système (6, 7, 8) d'alimentation en fluide. Ce dispositif trouve son application dans le soutènement des toits et parois, en particulier dans les mines et tunnels.

## IPC 1-7

**E21D 20/02**; **B05B 7/24**; **E04G 21/04**

## IPC 8 full level

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## Citation (search report)

- FR 1524640 A 19680510 - QUIGLEY CO
- FR 918016 A 19470128 - OMO AG
- DE 2410212 A1 19750904 - HINTEREGGER OHG R U A
- FR 2384549 A1 19781020 - RAFFENAUD BERNARD [FR]
- FR 2208313 A5 19740621 - APPLIC GAZ SA [FR]
- FR 1334848 A 19630809

## Cited by

DE3919102A1; FR2504844A1

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## DOCDB simple family (publication)

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