

## Title (en)

DESIGN OPTIMIZED COMPOSITIONS AND PROCESSES FOR MICROSTRUCTURALLY ENGINEERING CEMENTITIOUS MIXTURES

## Title (de)

ENTWURF OPTIMIERTER ZUSAMMENSETZUNGEN UND VERFAHREN ZUR MIKROSTRUKTURELLEN BEARBEITUNG VON ZEMENTMISCHUNGEN

## Title (fr)

COMPOSITIONS OPTIMISEES ET PROCEDES DE CONCEPTION MICROSTRUCTURELLE DE MELANGES DE CIMENT

## Publication

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## Application

**EP 94927185 A 19940818**

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## Abstract (en)

[origin: WO9505350A1] A method for manufacturing a design optimized cement mixture comprising the steps of: calculating the maximum packing density for the cement, fine aggregate and coarse aggregate (66); setting the optimal cost mixture (69); calculating the volume of water for a desired slump (72); determining cement mixture strength (74); comparing calculated strength versus desired strength (76); calculating mixture cost (80); comparing it to optimal mixture cost (82); and comparing the volume of fine aggregate with the maximum volume of fine aggregate allowed.

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## IPC 8 full level

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## Citation (search report)

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**WO 9505350 A1 19950223**; AU 679784 B2 19970710; AU 7670994 A 19950314; BR 9407168 A 19960917; CA 2168643 A1 19950223; CN 1100395 A 19950322; CO 4520143 A1 19971015; EG 20631 A 19991031; EP 0714383 A1 19960605; EP 0714383 A4 19980401; IL 110605 A0 19941111; IL 110605 A 19980816; JP H08511486 A 19961203; NZ 273435 A 19971024; PE 33195 A1 19951123; RU 2135427 C1 19990827; ZA 945497 B 19950607; ZW 10394 A1 19940928

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