Method and apparatus for the treatment of calcium carbonate slurry as residue from the manufacture of paper.

In a method and using an apparatus for carrying out the method for the treatment of calcium carbonate slurry ("mesa"), which is a re-utilizable residue from the causticisation of sodium carbonate with burnt lime in the manufacture of paper after the sulphate process, the lime sludge or "mesa cake" is conditioned in a mixer (21) with dry, powdery raw material (CaCO₃) to a loose, moist mesa pulp which is fed to the lower end of a riser pipe (17) constructed as a flash duct wherein the mesa pulp is suspended, dried and pulverized by means of hot smoke gas from a kiln (1), whereupon the dry, powdery product is separated from the smoke gas in a separator (18) and fed to the kiln (1) for further treatment in same.

![Diagram of apparatus for the treatment of calcium carbonate slurry](image)
# European Search Report

**Application Number**

**EP 89 31 1391**

## Documents Considered to Be Relevant

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document with indication, where appropriate, of relevant passages</th>
<th>Relevant to claim</th>
<th>Classification of the Application (Int. Cl.5)</th>
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<tr>
<td>D,A</td>
<td>EP-A-0 041 113 (KRUPP POLYSIUS AKTIENGESELLSCHAFT)</td>
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<td>A</td>
<td>TAPPI. vol. 60, no. 11, November 1977, ATLANTA US</td>
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<td></td>
<td>pages 111 - 115; L.M.BINGHAM et al.: &quot;The modern re-causticizing and lime calcining system.&quot;</td>
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<td>WO-A-8 703 314 (EKONO OY)</td>
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## Technical Fields Searched (Int. Cl.5)

- D 21 C
- C 04 B

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The present search report has been drawn up for all claims.

**Place of search**

The Hague

**Date of completion of search**

26 March 91

**Examiner**

SONGY O.M-L.A.

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**Category of Cited Documents**

- **X**: particularly relevant if taken alone
- **Y**: particularly relevant if combined with another document of the same category
- **A**: technological background
- **O**: non-written disclosure
- **P**: intermediate document
- **T**: theory or principle underlying the invention
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- **D**: document cited in the application
- **L**: document cited for other reasons
- **&**: member of the same patent family, corresponding document