

Title (en)

Apparatus and methods for reducing the formation of scale in pulping operations.

Title (de)

Vorrichtung und Verfahren zur Herabsetzung der Krustenbildung in Aufschlussverfahren.

Title (fr)

Appareils et procédés pour réduire la formation de dépôts dans les processus de mise en pâte.

Publication

**EP 0313730 A1 19890503 (EN)**

Application

**EP 88111367 A 19880715**

Priority

US 11208187 A 19871026

Abstract (en)

A retention vessel (60) for the liquor heated by the lower heat exchanger in a continuous digester (24) is provided. The lower heat exchanger (46) heats the liquor to a temperature above which the calcium in solution precipitates. The liquor is retained in the retention vessel (60) for a predetermined time sufficient for the calcium to either deposit as scale on the surfaces of the vessel (60) or to flow through the system with the chips. In this manner, the scale-forming constituents of the liquor are reduced and a scale-forming constituent lean liquor is returned to the digester (24), whereby the tendency of the liquor to form scale on the component parts of the pulping system is minimized.

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**D21C 3/226** (2013.01); **D21C 7/00** (2013.01)

Citation (search report)

- [A] FR 2583079 A1 19861212 - AHLSTROEM FOERETAGEN [SE]
- [A] US 1945205 A 19340130 - SMILEY LLOYD D
- [A] US 2008839 A 19350723 - TORSTEN SAMSON
- [A] TAPPI, vol. 63, no. 4, April 1980, pages 125-127, Atlanta, US; L.D. MARKHAM et al.: "Formation of calcium carbonate scale in a continuous digester"

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