

Title (en)

Papermaking apparatus for pressing and drying a web.

Title (de)

Papiermaschine zum Pressen und Trocknen einer Faserstoffbahn.

Title (fr)

Machine à papier pour presser et essorer une matière fibreuse.

Publication

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Application

EP 95200680 A 19911010

Priority

- EP 91630081 A 19911010
- US 59591090 A 19901011

Abstract (en)

The present invention includes a papermaking apparatus (46) for pressing and drying a web (w). The apparatus (46) includes a press (47) and a drying section (48) disposed downstream relative to the press (47). The press (47) further includes a press member (50) and a backing roll (52) which cooperates with the press member (50) for defining therebetween a press nip (54) for pressing the web (w). A fabric (10) is disposed contiguously relative to the web (w) and extending through the nip (54) for supporting and guiding the web (w) through the nip (54). A felt (56) extends through the nip (54), the felt (56) being disposed on the opposite side of the web (w) relative to the fabric (10). The fabric (10) defines a relatively smooth surface (40) towards the web (w) such that when the web (w) exits the nip (54) and the fabric (10) and felt (56) diverge relative to each other, the web (w) follows the smooth surface (40) of the fabric (10) without being rewetted thereby. The dryer section (48) includes an upstream dryer (60) and a guide roll (62) which cooperates with the upstream dryer (60). The fabric (10) extends for the nip (54) to and around a portion of a heated outer surface (66) of the upstream dryer (60), the fabric (10) thereafter being guided away from the upstream dryer (60) by the guide roll (62) such that the web (w) is guided without open draw from the nip (54) to the dryer section (48) without rewetting thereof by the fabric (10). <IMAGE>

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Citation (search report)

- [A] US 4861430 A 19890829 - ANDERSSON NILS T [SE]
- [DA] US 4483745 A 19841120 - WICKS LAURIE D [US], et al
- [A] AT 301325 B 19720825 - MICHISUKE KINOSHITA, et al
- [A] US 4529643 A 19850716 - LUNDSTROEM KRISTIAN [FI]
- [A] US 3401467 A 19680917 - KOESTER JOHN P
- [DA] US 4738752 A 19880419 - BUSKER L H [US], et al

Cited by

EP2133465A1; AU2004303857B2; AU2004303857C1; AT508814A3; AT508814B1; WO03046279A1; WO2005061788A1; WO2009156593A1

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