

Title (en)

Apparatus for pulping paper, and a rotor therefor.

Title (de)

Mahlapparat für Papierstoffherstellung und Rotor dafür.

Title (fr)

Appareil pour défibrer la pâte à papier et rotor pour cet appareil.

Publication

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Application

EP 84301139 A 19840222

Priority

US 47084783 A 19830228

Abstract (en)

An apparatus for pulping paper making stock at high consistencies includes a rotor (28) having a rotor body (30), a plurality of vanes (36, 38) extending generally radially outwardly therefrom and a feed screw (40) mounted centrally of the rotor body and extending upwardly therefrom along an axis of rotation of the rotor body. The feed screw includes a conical body (42) having a base (46) with a periphery adjacent root portions (48) of the rotor vanes (38), and at least one helical flight (50, 52) extending along the length of the conical body and, in one embodiment, has a tapered end (54) which is located adjacent a vane root. The rotor body (30) and feed screw (40) are mounted for rotation in a center portion of the bottom wall (14, 16) of a tub (10) for holding paper making stock such that, when the rotor (28) is rotated, the conical body (42) and helical screw (40) guide material contacting the feed screw downwardly and outwardly to contact the rotor vanes (36, 38) which impel the stock toward the side wall (12) of the tub with sufficient force to climb the wall.

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Cited by

WO2008099180A1; DE3743247A1; AU2008215918B2; EP1347093A1; AT517870A1; AT517870B1; WO2017070720A1; US6234415B1; US10821408B2; EP2758588B1

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