

Title (en)
LOG SAW CLAMP APPARATUS AND METHOD

Title (de)
SPANNVORRICHTUNG FÜR EINE ROLLENSÄGE SOWIE DAZUGEHÖRENDES VERFAHREN

Title (fr)
ETAU POUR MATERIAU EN ROULEAU A DECOUPER ET PROCEDE ASSOCIE

Publication
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Application
EP 00992828 A 20001201

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Abstract (en)
[origin: WO0141982A2] The log saw clamp of the present invention includes a brace and at least one jaw connected to an actuation member. While the clamp can be arranged in any number of orientations, the preferred embodiment has two jaws supporting the logs from below, a brace restraining logs within the clamp from above, and an actuation member on either end of the brace. The diameter of the log receiving area in the clamp can be adjusted by moving the actuation members. Preferably, linear movement of the actuation members causes the jaws to rotate and the brace to translate, thereby increasing or decreasing the diameter of the log receiving area. The jaws rotate about a pivot point and are preferably connected to the actuation member via respective jaw mounts. The actuation members are preferably moved with a turn wheel and gear assembly. The turn wheel lets the machine operator adjust the diameter of the clamp a safe distance from the sawing operation. In operation of the preferred embodiments, the clamp is set to a desired position and can apply a constant pressure (if desired) upon a log in the clamp. The brace can be spring loaded to be responsive to slight differences in log diameters. The jaws can have a specialized connection feature to enable quick substitution of the jaws for differently-sized logs. The clamp is preferably substantially rigid, making the clamp more durable and allowing the clamp to apply relatively high clamping forces if desired.
[origin: WO0141982A2] The log saw clamp (10) of the present invention includes a brace (34) and at least one jaw (38) connected to an actuation member (30). The preferred embodiment has two jaws (26) supporting the logs from below, the brace (34) restraining logs from above and the actuation member connected to both ends of the brace. The diameter of the log receiving area (110) can be adjusted by moving the actuation members. Linear movement of the actuation members causes the jaws to pivot and the brace to translate such that the diameter of the log receiving area is increased or decreased. The jaws are pivotally connected to the actuation member via jaw mounts (74). The actuation member is preferably moved with a turn wheel (90) and gear assembly (94). The brace is spring loaded (42) to the actuation member. The jaws can be interchanged with differently sized and shaped jaws to accomodate differently size logs.

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