

Title (en)
HEATING AMORPHOUS METAL TO FACILITATE CUTTING

Publication
EP 0163695 B1 19910130 (EN)

Application
EP 84904280 A 19841109

Priority
US 55143683 A 19831114

Abstract (en)
[origin: WO8502141A1] A method for cutting with a penetrating structure (24, 42, or 62), a stack (22 or 32) of superimposed sheets (22A-22N or 32A-32N) of amorphous metal without shattering or cracking the sheets (22A-22N or 32A-32N). The method comprises positioning the stack (22 or 32) against a working surface (16, 28, 44 or 64), heating a predetermined region (25, 27 or 29) of the stack (22 or 32) by a heater (12 or 34) to a temperature in the range of 80<o>C to 450<o>C so as to render the amorphous metal in the region (25, 27 or 29) plastic but without causing it to crystallize, applying a force by motor (18) to the penetrating structure (24, 42 or 62) that drives it toward the working surface (16, 28, 44 or 64) and through stack (22 or 32) via the region (25, 27 or 29) while sheets (22A-22N or 32A-32N) are within the temperature range and still plastic, thereby cutting the stack (22 or 32) with a smooth, clean cut.

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