

EUROPEAN PATENT APPLICATION

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Inductive heating apparatus and process.

An inductive heating apparatus comprising an induction furnace (1) and induction heating coil (10) embedded within a refractory block (6) of cylindrical form and a metal susceptor sleeve (7) arranged with a clearance in the bore of the refractory block (6). The susceptor sleeve extends below the bottom of the refractory block (6) and is supported in a metal support collar (8). A cylindrical canister (4) is positioned inside the refractory block (6) and is supported on a moveable lower refractory pressure pad (3) located on top of a water cooled hydraulic ram (5). An upper refractory pressure pad (2) is provided above the cylindrical canister (6) and serves as an abutment means when the lower refractory pressure pad (3) and cylindrical canister (4) thereon are moved upward. The induction heating coil (10) may also have a number of tappings (A,B,C) for progressively increasing the length of the heating zone.

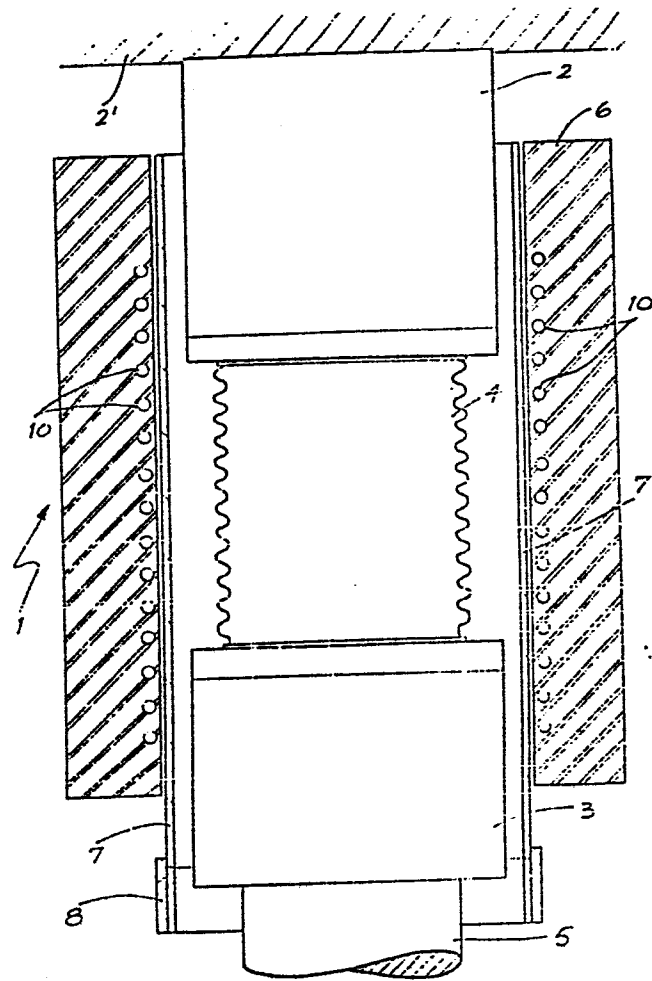


FIG. 1



DOCUMENTS CONSIDERED TO BE RELEVANT			EP 86305379.9
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl 4)
D,A	EP - A2 - 0 044 692 (AUSTRALIAN ATOMIC ENERGY) * Abstract; page 13, line 24 - page 16, line 27; fig. 1,5,6,7 *	1,3,4,7,8,14	H 05 B 6/02 G 21 F 9/34 F 27 D 11/06
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D,A	EP - A1 - 0 102 246 (AUSTRALIAN ATOMIC ENERGY) * Abstract; page 12, line 3 - page 13, line 30; fig. 1-3 *	1,3,4,7,8,14	
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A	DE - B - 1 012 400 (BROWN, BOVERI & CIE) * Claim 1; fig. 1,2 *	1,7	

			TECHNICAL FIELDS SEARCHED (Int. Cl 4)
			F 27 D 11/00 H 05 B 6/00 G 21 F 9/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 31-03-1988	Examiner TSILIDIS
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

