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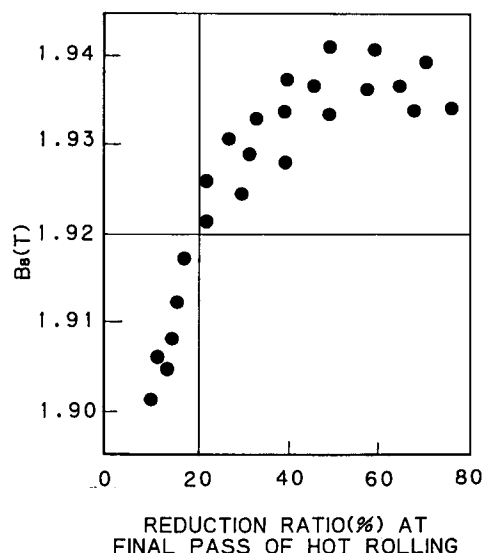
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(54) **Process for preparation of grain-oriented electrical steel sheet having superior magnetic properties.**

(57) A silicon steel slab comprising 0.05 to 0.8% by weight of Mn and up to 0.014% by weight of S + 0.405Se is heated at a temperature lower than 1280°C and hot-rolled under such conditions that the hot rolling-finish temperature is 700 to 1150°C, the cumulative reduction ratio at the final three passes is at least 40%, and the reduction ratio at the final pass is at least 20%, or this silicon steel slab is hot-rolled at a hot rolling-finish temperature of 750 to 1150°C while adopting the above-mentioned reduction ratio according to need, is maintained at a temperature not lower than 700°C for at least 1 second, and wound at a winding temperature lower than 700°C. The hot-rolled sheet is subjected to the hot-rolled sheet annealing, finally cold-rolled at a reduction ratio of at least 80%, subjected to the decarburization annealing, and then subjected to the final finish annealing. According to this process, a grain-oriented electrical steel sheet having superior magnetic properties is obtained.

Fig. 2**EP 0 392 535 A3**



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EUROPEAN SEARCH REPORT

Application Number

EP 90 10 7030

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	EP-A-0 098 324 (NIPPON STEEL) * claim 1 *	1	C2108/12

Y	EP-A-0 219 611 (NIPPON STEEL) * page 16, line 19 - line 32 *	1	

A	GB-A-2 016 987 (NIPPON STEEL) * claim 1 *	1	
D	& JP-B-60 037 172 (NIPPON STEEL)		

A	GB-A-2 095 287 (ALLEGHENY LUDLUM STEEL) * claim 1 *	1	
D	& JP-A-57 158 322 (ALLEGHENY LUDLUM STEEL)		

A	GB-A-2 130 241 (NIPPON STEEL) * claim 1 *	1	
D	& JP-A-59 056 522 (NIPPON STEEL)		

			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C21D
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 23 JULY 1992	Examiner SUTOR W.
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			