

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: **84306770.3**

(51) Int. Cl.⁴: **B 21 D 37/06**
B 21 B 37/10

(22) Date of filing: **04.10.84**

(30) Priority: **05.10.83 GB 8326652**

(43) Date of publication of application:
10.04.85 Bulletin 85/15

(88) Date of deferred publication of search report: **25.09.85**

(84) Designated Contracting States:
AT BE CH DE FR GB IT LI LU NL SE

(71) Applicant: **DAVY McKEE (SHEFFIELD) LIMITED**
Prince of Wales Road
Sheffield S9 4EX Yorkshire(GB)

(72) Inventor: **Gronbech, Robert William**
59 Abbeydale Park Rise
Sheffield, Yorks(GB)

(72) Inventor: **Stubbs, Stuart**
2 Rivelin Park Drive
Sheffield S6 5GG, Yorks(GB)

(74) Representative: **Batchellor, John Robert et al,**
BACHELLOR, KIRK & EYLES 2 Pear Tree Court
Farringdon Road
London EC1R 0DS(GB)

(54) **Rolling mill.**

(57) A rolling mill for rolling metal strip is described which has the rolled strip temperature compensated. The mill illustrated includes stands (12, 13 and 14), and strip (15) which is coiled on to coiler (16). A shape sensor (17) indicates the shape of the strip by detecting widthwise variations in tension in the strip. A temperature sensor (18) upstream of the shape sensor (17) detects widthwise temperature variations in the strip which affects operation of the shapemeter.

Upstream of the temperature sensor (18) are coolant applicators (20, 23) for differentially cooling the strip across its width to reduce those temperature variations prior to arrival of the strip at the shape sensor.

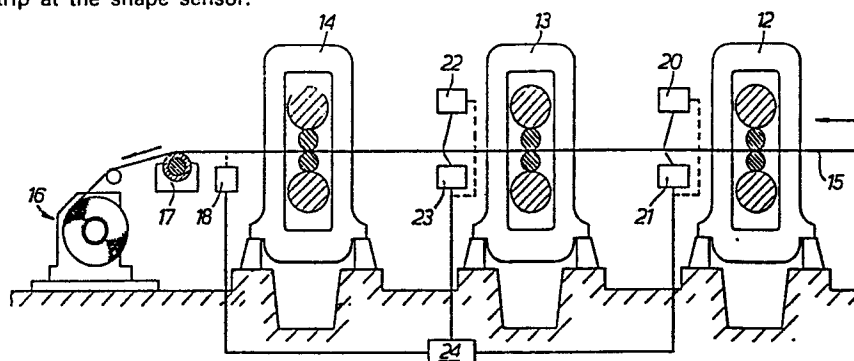


FIG. 1.

Croydon Printing Company Ltd



European Patent
Office

EUROPEAN SEARCH REPORT

0136921

Application number

EP 84 30 6770

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. 4)
X	GB-A-2 051 641 (SCHLOEMANN) * Claims 1,5,6-8; page 3, lines 66-87; figure 1, nos. 18-23 *	1-3,6	B 21 B 37/06 B 21 B 37/10
A	DE-A-1 811 238 (INSTITUT AVTOMATIKA) * Claim 1 *		
A	GB-A-2 017 974 (LOWEY ROBERTSON) * Page 2, lines 1-15 *		
A	EP-A-0 041 863 (LOEWY ROBERTSON) * Claim 1; figure 2, no. 58 *	4,5	
A	GB-A-2 059 316 (GENERAL ELECTRIC) * Claims 1e, 4*		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			B 21 B 1/00 B 21 B 27/00 B 21 B 37/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 05-06-1985	Examiner SCHLAITZ J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			