



Europäisches Patentamt
European Patent Office
Office européen des brevets

19

11 Publication number:

**0 171 920
A3**

12

EUROPEAN PATENT APPLICATION

21 Application number: 85304895.7

61 Int. Cl.³: **H 01 B 13/22**
H 01 B 7/14, H 01 R 43/02

22 Date of filing: 09.07.85

30 Priority: 10.07.84 JP 143876/84

43 Date of publication of application:
19.02.86 Bulletin 86/8

88 Date of deferred publication of search report: 20.07.88

84 Designated Contracting States:
FR GB IT

71 Applicant: **SUMITOMO ELECTRIC INDUSTRIES LIMITED**
No. 15, Kitahama 5-chome Higashi-ku
Osaka-shi Osaka 541(JP)

72 Inventor: **Koga, Hisao**
Osaka Works Sumitomo Electric Industries, Ltd.
1-3, Shimaya 1-chome Konohana-ku Osaka(JP)

72 Inventor: **Nishihara, Hidehisa**
Osaka Works Sumitomo Electric Industries, Ltd.
1-3, Shimaya 1-chome Konohana-ku Osaka(JP)

72 Inventor: **Fukuzono, Shigekazu**
Osaka Works Sumitomo Electric Industries, Ltd.
1-3, Shimaya 1-chome Konohana-ku Osaka(JP)

72 Inventor: **Mitsi, Susumi**
Osaka Works Sumitomo Electric Industries, Ltd.
1-3, Shimaya 1-chome Konohana-ku Osaka(JP)

72 Inventor: **Kubo, Hiroshi**
Osaka Works Sumitomo Electric Industries, Ltd.
1-3, Shimaya 1-chome Konohana-ku Osaka(JP)

74 Representative: **Warren, Anthony Robert et al,**
BARON & WARREN 18 South End Kensington
London W8 5BU(GB)

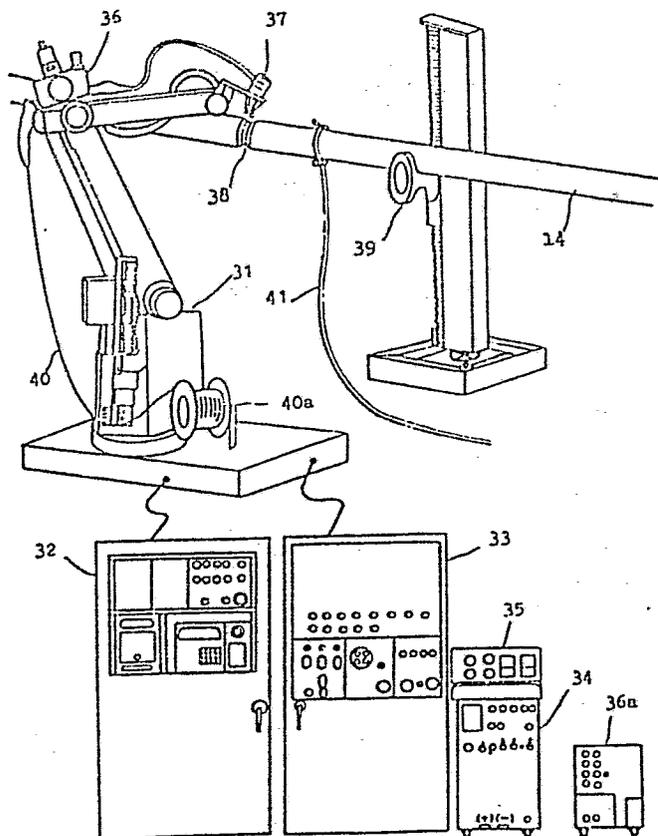
54 **A long, lead-sheathed submarine power cable, and a process for producing the same.**

57 **A long, lead-sheathed, submarine power cable is made up of a number of cable units joined by the TIG welding process in an atmosphere of an inert gas. The cable units are supported in a horizontal position, and the lead sheaths (14) of adjoining cables are welded circumferentially (38). Welding is effected in a direction from the bottom towards the top of the sheath as viewed in cross-section. The welding operation is facilitated by the combined use of a robot (31) and the TIG welding process.**

EP 0 171 920 A3

./...

FIG. 1





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)
Y	GB-A- 361 021 (SIEMENS) * Page 2, lines 20-39; figure 2 * ---	1	H 01 B 13/22 H 01 B 7/14 H 01 R 43/02
Y	FR-A-2 254 120 (GATES RUBBER) * Page 9, claims 1,2 and 4 * ---	1	
A	GB-A- 856 069 (STAND. TELEPH. AND CABLES) * Page 2, lines 45-48; page 3, lines 70-72; figure 4 * -----	1,2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H 01 B 13/00 H 01 B 7/00 B 23 K 9/00 B 23 K 13/00 H 01 R 43/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 06-04-1988	Examiner DEMOLDER 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>			