

[EP2054090](#) ("assignment dated 13.06.1989. Certified copy filed on GB2163827")

corresponds with

[US4243345](#) ("execution date Nov 7, 1989")

← → ↻ <https://worldwide.espacenet.com/publicationDetails/originalDocument?FT=D&date=19810106&DB=EPODOC&locale=&CC=US&NR=4243345A&KC=A&ND=4> 🔍 ☆

**Europäisches Patentamt**  
European Patent Office  
Office européen des brevets

**Espacenet**  
Patent search

Deutsch English Français  
Contact  
Change country ▼

← About Espacenet Other EPO online services ▼

Search Result list **★ My patents list (0)** Query history Settings Help

Refine search → Results → GB2054090 (A) → US4243345 (A)

US4243345 (A)  
Bibliographic data  
Description  
Claims  
Mosaics  
**Original document**  
Cited documents  
Citing documents  
INPADOC legal status  
INPADOC patent family

Quick help —  
→ What happens if I click on "In my patents list"?  
→ What happens if I click on the "Register" button?  
→ How can I maximise the page view?  
→ How can I download documents?  
→ Why is the Original document not available for certain documents?

**Original document: US4243345 (A) — 1981-01-06**

★ In my patents list 📄 Report data error 🖨️ Print

**Pipe handling apparatus for reel pipe laying system**

Page 1/14 Abstract Bibliography Maximise Download

**United States Patent** [19] [11] **4,243,345**  
**Cha et al.** [45] **Jan. 6, 1989**

[54] **PIPE HANDLING APPARATUS FOR REEL PIPE LAYING SYSTEM** 4,157,023 6/1979 Tisdale et al. .... 405/168  
[75] Inventors: **John H. Cha; Wesley A. Brown, both of Orange, Calif.; Harry P. Weldon, London; Daniel G. Whyte, Amersham, both of England** FOREIGN PATENT DOCUMENTS 601103 4/1948 United Kingdom ..... 405/16  
*Primary Examiner—Dennis L. Taylor*  
*Attorney, Agent, or Firm—LeBlanc, Nolan, Shur & Nie*  
[75] Assignee: **Santa Fe International Corporation, Orange, Calif.** [57] **ABSTRACT**  
An offshore system for laying a continuous length of