

Title (en)  
X-RAY LINE

Publication  
**EP 0497169 A3 19930512 (DE)**

Application  
**EP 92100808 A 19920120**

Priority  
• DE 4102698 A 19910130  
• DE 4138889 A 19911127

Abstract (en)  
[origin: EP0497169A2] 2.1. An X-ray line has the following construction: inner conductor (1) or line core with a plurality of inner conductors, and concentrically around it: inner conducting sleeve, high-voltage insulation (3), outer conducting sleeve, outer conductor or screen (5) and sheath (6). During X-ray operation, transient overvoltages can occur and lead to disturbances. In the past, such overvoltages were rendered safe by means of attenuating elements which are connected in the line circuit. <??>2.2. A further remedy is to construct the line such that it has an attenuation which increases greatly with frequency above 1 MHz, without the use of attenuating elements. To this end, each inner conductor (1) consists of one or more wires having a thickness between 0.6 and 0.1 mm, of which at least one wire consists of a ferromagnetic material, preferably a nickel/iron alloy. If required, a small portion of the wires consist of copper or silver. <??>2.3. Use as an X-ray line with high attenuation. <IMAGE>

IPC 1-7  
**H01B 9/02**

IPC 8 full level  
**H01B 1/02** (2006.01); **H01B 7/00** (2006.01); **H01B 7/30** (2006.01); **H01B 9/00** (2006.01); **H01B 9/02** (2006.01); **H05G 1/08** (2006.01); **H05G 1/54** (2006.01)

CPC (source: EP US)  
**H01B 7/0054** (2013.01 - EP US); **H01B 9/027** (2013.01 - EP US); **H05G 1/08** (2013.01 - EP US)

Citation (search report)  
• [AD] DE 8526448 U1 19851107  
• [A] US 4684766 A 19870804 - TANAKA SHIGERU [JP], et al

Cited by  
EP2117010A4; EP0933980A3

Designated contracting state (EPC)  
AT CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0497169 A2 19920805; EP 0497169 A3 19930512**; DE 4138889 A1 19920813; DE 4138889 C2 19921126; JP H04324204 A 19921113; US 5250755 A 19931005

DOCDB simple family (application)  
**EP 92100808 A 19920120**; DE 4138889 A 19911127; JP 1184692 A 19920127; US 82821692 A 19920130