

12

EUROPEAN PATENT APPLICATION

21 Application number: 84100470.8

51 Int. Cl.³: **H 01 J 29/45**

22 Date of filing: 18.01.84

30 Priority: 19.01.83 JP 5915/83

43 Date of publication of application:
01.08.84 Bulletin 84/31

88 Date of deferred publication of search report: 08.08.84

84 Designated Contracting States:
DE FR NL

71 Applicant: **HITACHI, LTD.**
6, Kanda Surugadai 4-chome Chiyoda-ku
Tokyo 100(JP)

72 Inventor: **Inoue, Eisuke**
460, Shimonagayoshi
Mobara-shi Chiba(JP)

72 Inventor: **Nonaka, Yasuhiko**
38-2, Midori-cho
Mobara-shi Chiba(JP)

72 Inventor: **Yamamoto, Masanao**
1502, Mobara
Mobara-shi Chiba(JP)

74 Representative: **Hauck, Hans, Dipl.Ing. Patentanwälte**
Dipl.-Ing. H. Hauck et al,
Dipl.-Phys. W. Schmitz Dipl.-Ing. E. Graalfs Dipl.-Ing. W.
Wehnert Dr.-Ing. W. Döring
Mozartstrasse 23 D-8000 München 2(DE)

54 **Image pickup tube target.**

57 An image pickup tube target includes a Se-As-Te photoconductive layer (4') whose arsenic concentration changes in a direction of thickness of the Se-As-Te photoconductive layer, a carrier extraction layer (4d) having a high arsenic concentration and being contiguous to the Se-As-Te photoconductive layer (4b), a capacitive layer (4e) having a low arsenic concentration and being contiguous to the carrier extraction layer (4d), a doped layer (4f) obtained by doping In₂O₃, MoO₂ or a mixture thereof in an interface between the carrier extraction layer (4d) and the capacitive layer (4e).

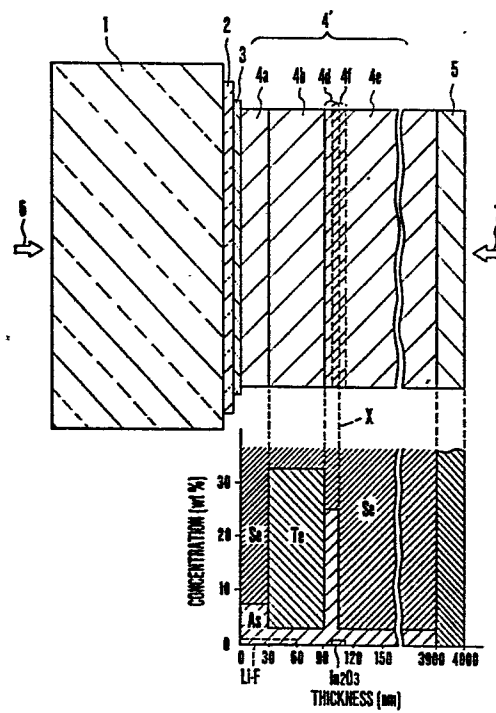


FIG.2



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. 3)
X	EP-A-0 067 015 (HITACHI) * Page 6, line 19 - page 10, line 25; page 14, line 14 - page 15, line 18; page 18, line 1 - page 19, line 14; page 21, line 5 - page 22, line 17; figures 1-4 *	1, 2, 5, 8, 9	H 01 J 29/45
A	--- GB-A-2 051 478 (NIPPON HOSO KYOKAI) * Page 2, lines 62-83; figure 3 *	9	
A	--- JAPANESE JOURNAL OF APPLIED PHYSICS, vol. 21, no. 2, part 1, February 1982, pages 213-223, Tokyo, JP E. MARUYAMA: "Amorphous built-in-field effect photoreceptors" * Page 217, right-hand column, line 8 - page 218, line 43; figures 12-14 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			H 01 J 29/45
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12-04-1984	Examiner DELANGUE P.C.J.G.
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			

