

SCHMIDT DECLARATION

EXHIBIT A



JAPANESE

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Corporate Profile

Name	IP Bridge, Inc.
Head Office	FUERTE KOJIMACHI FL5, 1-7-25 Kojimachi, Chiyoda-ku, Tokyo 102-0083 Japan
Chairperson	President and CEO Shigeharu Yoshii
Established	July 2013
Capital	100,000,000 JPY
Operations	Procurement and licensing of intellectual property rights Advising and consulting on executing intellectual property rights
Shareholders	Innovation Network Corporation of Japan, Inc. and Executive Officer

Our Way

Mission

- To promote the Open-innovation Model by the optimal utilization of patents for achieving a healthy and creative world economy.
- To contribute towards a future where people's imagination can be actualized.

Vision

- By envisioning the direction technology is driving towards, IP Bridge will connect the creators of IP with those who may best utilize and commercialize IP so that there will be better services, products, and business models.
- IP Bridge will establish a fair relationship between holders and users of patents.
- IP Bridge will cultivate the next generation of global leaders of IP management.

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SCHMIDT DECLARATION

EXHIBIT B



(12) **United States Patent**
Nogami et al.

(10) **Patent No.:** US 6,346,745 B1
(45) **Date of Patent:** Feb. 12, 2002

(54) **CU-A1 COMBINED INTERCONNECT SYSTEM**

5,893,752 A * 4/1999 Lin et al. 438/687
6,140,231 A * 4/1999 Lin et al. 438/653
6,001,730 A * 12/1999 Farkas et al. 438/627

(75) Inventors: **Takeshi Nogami**, Sunnyvale; **Susan H. Chen**, Santa Clara, both of CA (US)

* cited by examiner

(73) Assignee: **Advanced Micro Devices, Inc.**, Sunnyvale, CA (US)

Primary Examiner—Phat X. Cao

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(57) **ABSTRACT**

(21) Appl. No.: **09/205,587**

A combined interconnect system is formed comprising a Cu or Cu alloy feature electrically connected an Al or Al alloy feature through a composite comprising a first layer containing tantalum and aluminum contacting the Al or Al alloy feature, a second layer containing tantalum nitride, a third layer containing tantalum nitride having a nitrogen content less than that of the second layer, e.g. amorphous tantalum nitride, and a fourth layer comprising tantalum or tantalum nitride having a nitrogen content less than that of the third layer. Embodiments include forming a dual damascene opening in the dielectric layer exposing a lower Al or Al alloy feature, depositing a layer of tantalum in contact with the Al or Al alloy feature, sequentially depositing the second, third and fourth layers, filling the opening with Cu or Cu alloy layer, CMP and heating to diffuse aluminum from the underlying feature into the first tantalum layer.

(22) Filed: **Dec. 4, 1998**

(51) **Int. Cl.**⁷ **H01L 23/48**; H01L 23/52; H01L 29/40

(52) **U.S. Cl.** **257/751**; 257/762; 257/765

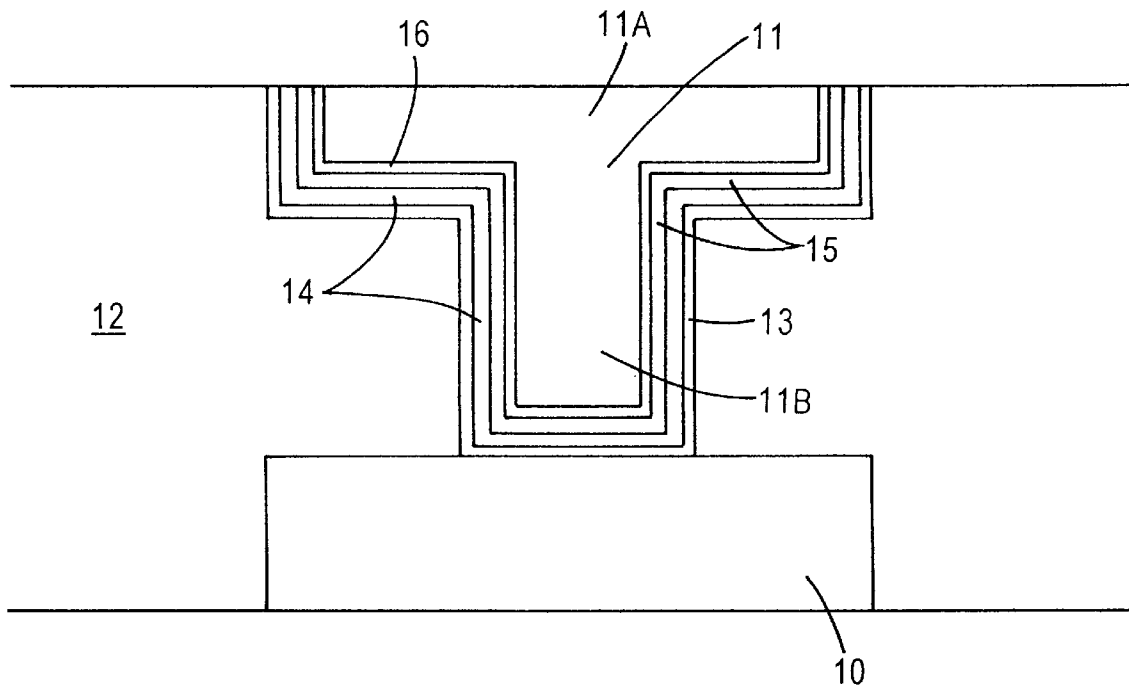
(58) **Field of Search** 257/762, 761, 257/765, 751, 763, 764; 438/627, 653

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,525,837 A * 6/1996 Choudhury 257/751
5,693,563 A 12/1997 Teong 438/627

20 Claims, 1 Drawing Sheet



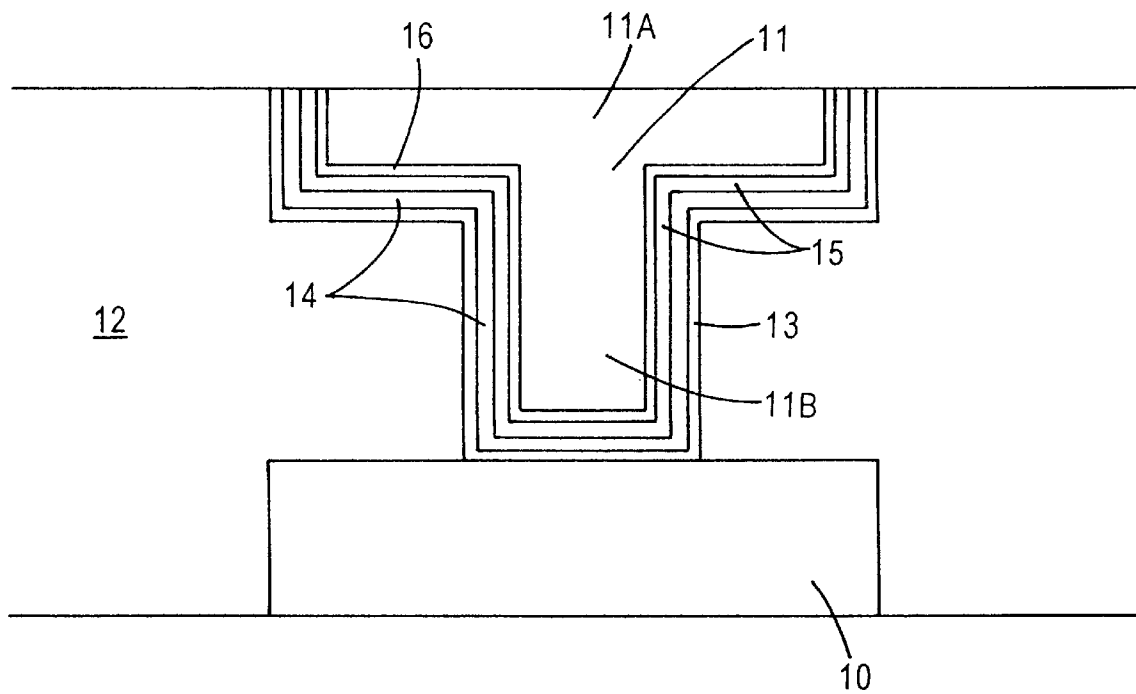


FIG. 1

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