

Paper No. _____
Filed: October 13, 2016

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD.
Petitioner

v.

ELBRUS INTERNATIONAL LIMITED
Patent Owner

Case IPR2015-01524
Patent No. 6,366,130

PETITIONER'S DEMONSTRATIVE EXHIBITS

Demonstratives of Petitioner Samsung Electronics Co., Ltd.

***Inter Partes* Review of
U.S. Patent No. 6,366,130**

IPR2015-01524

Oral Hearing: October 18, 2016

Instituted Grounds

V. ORDER

For the reasons given, it is hereby

ORDERED that pursuant to 35 U.S.C. § 314(a), an *inter partes* review is hereby instituted as to claims 1–3, 5–7, and 9 of the '130 patent with respect to the following grounds:

1. Whether claims 1, 2, 5, 6, and 9 are unpatentable under 35 U.S.C. § 103 as obvious over the combination of Sukegawa and Lu;
2. Whether claim 3 is unpatentable under 35 U.S.C. § 103 as obvious over the combination of Sukegawa, Lu, and Watanabe; and
3. Whether claim 7 is unpatentable under 35 U.S.C. § 103 as obvious over the combination of Sukegawa, Lu, and Hardee;

'130 Patent Claim 1

1. A data transfer arrangement comprising:
two bus drivers;
a voltage precharge source;
a differential bus coupled to the bus drivers and to the voltage precharge source; and
a latching sense amplifier coupled to the differential bus;
wherein the latching sense amplifier comprises:
a first stage including a cross-coupled latch coupled to a differential data bus; and
an output stage coupled to an output of said first stage;
wherein the output of the first stage is coupled to an input of the output stage;
wherein the differential bus and the differential data bus are precharge to a voltage V_{pr} between V_{dd} and ground, where $V_{pr}=K*V_{dd}$, and K is a precharging voltage factor.

Issues Raised in Patent Owner's Response

1. Whether *Sukegawa* and *Lu* teach the claimed differential data bus?
(all claims)

Patent Owner Resp. at 18-26; Petitioner Reply at 1-6

2. Whether *Sukegawa* and *Lu* teach the claimed precharging?
(all claims)

Patent Owner Resp. at 26-37; Petitioner Reply at 7-16

3. Whether *Sukegawa* and *Lu* render obvious claim 5?

Patent Owner Resp. at 37-42; Petitioner Reply at 16-18

4. Whether *Sukegawa*, *Lu*, and *Watanabe* render obvious claim 3?

Patent Owner Resp. at 46-50; Petitioner Reply at 18-21

5. Whether *Sukegawa*, *Lu*, and *Hardee* render obvious claim 7?

Patent Owner Resp. at 50-55; Petitioner Reply at 21-24

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