

# KANG DECLARATION EXHIBIT 1

**EXHIBIT C**

**FILED UNDER SEAL**

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March 2, 2012

Certificate of Translation

I hereby certify that the Korean to English translation of the  
SAMNDCA10850604 – SAMNDCA10850607  
is an accurate and complete rendering of the contents of the source  
document to the best of my knowledge. I further certify that I  
translated said document and that I am a professional competent in  
both languages with more than seven (7) years of professional  
experience.

BY:



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Taehyung Kim

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From: Sangwook Han <whan@nemustech.com>  
Sent: Thursday, October 28, 2010 10:57 PM  
To: seungyun75.lee@samsung.com  
Cc: Wookyun Kho, Chi Hoon Ryu; zaharang@nemustech.com; Aries-frame@nemustech.com  
Subject: Re: [List Bouncing] Questions regarding bouncing  
Attachments: Screenshot 2010-10-29 PM 2.49.52.png

Hello, this is Sang Wook Han of Nemustech.

Actually since until last weekend, we reviewed the bounce issues and until the day before yesterday, we have been reviewing the deceleration speed issues while on scroll mode.

With regards to bounce, we used the [REDACTED] model which was modeled after the actual physical effect and obtained the bounce effect that is similar to the iPad. A new Scroller (instead of Interpolator) was created but overall impression is that there was no substantial difference from the conventional method of changing the parameter of Interpolator. Accordingly, we did not release it.

The final curve that was used is as follows.





I will send you next Monday those framework ListView files where the new Scroller is applied.  
Thank you.

Sangwook Han  
swhan@nemustech.com

Oct. 29, 2:20 PM, 2010, by Seung Yeon Lee:

Principal Engineer Sang Wook Han, Executive Seung Min Lee is added.

----- Original Message-----

Sender: Wookyun Kho [wk.kho@samsung.com](mailto:wk.kho@samsung.com) E4/GA Group(Mobile)/SEC

Date: 10/29/2010 11:59 (GMT +09:00)

Title: [List Bouncing] Questions regarding bouncing

Hello, This is Wookyun Kho of Samsung Electronics.

I have some questions to ask with regards to list bouncing tuning.

At the time of last tuning, I remember that we agreed to proceed with two tunings.

The items that were forwarded previously have been applied at the first tuning.

I would like to know the current status of the production of the “interpolator” for the smoother bouncing which is to be applied at the 2<sup>nd</sup> tuning.

Upon our internal review with regards to bouncing, [REDACTED]

[REDACTED] that we used for the previous bouncing is a simple

[REDACTED] which has low flexibility and made a little awkward impression.

However, compared to our competitor’s product (you know well which one T ^T), it is still not satisfactory. There was an internal opinion to

[REDACTED]

If there is a better way that is under development that is separate from what was proposed from our internal review, please let us know. If there isn’t any decision made with regards to the bouncing algorithm, it would be a good idea to consider [REDACTED].

**Highly Confidential - Attorneys' Eyes Only**

**SAMNDCA10850606**

Thank you.

Wookyun Kho

<201010291420829\_44YDXKW4.jpg>

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**From:** Sangwook Han <swhan@nemustech.com>  
**Sent:** Thursday, October 28, 2010 10:57 PM  
**To:** seungyun75.lee@samsung.com  
**Cc:** 고우균; 류치훈; zaharang@nemustech.com; Aries-frame@nemustech.com  
**Subject:** Re: [리스트 바운싱] 바운싱 관련 문의 드립니다.  
**Attachments:** 스크린샷 2010-10-29 오후 2.49.52.png

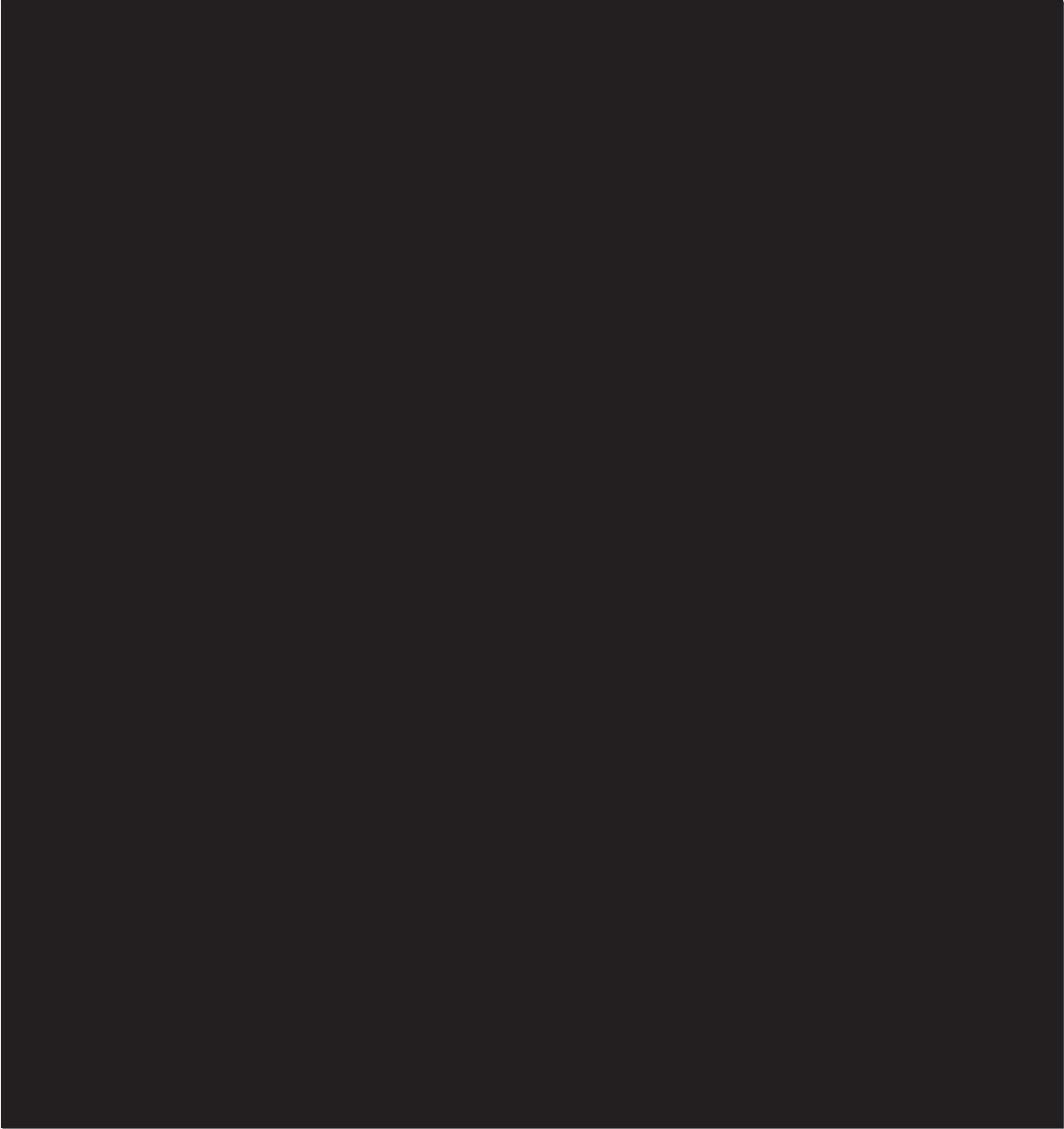
안녕하세요 네무스텍 한상욱입니다

사실 지난 주말까지 바운싱에 대해서, 그제까지 scroll 중 감속 속도에 관해서 검토를 계속 진행하였습니다 .  
바운싱에 대해서는 실제 물리 효과를 모델링한 [redacted] 을 활용하여 iPad 와 비슷한 bounce 효과를 얻었는데,  
Scroller(Interpolator 대신)는 새로 작성하였지만 결과적인 느낌은 기존의 Interpolator 의 parameter 를 변경한 것과 큰 차이가  
없었습니다. 그래서, 릴리즈는 하지 않았습니다.

최종적으로 사용한 곡선은 다음과 같습니다.

[redacted]





감사합니다.

Sangwook Han  
[swhan@nemustech.com](mailto:swhan@nemustech.com)



감사합니다.  
고우균

<201010291420829\_44YDXKW4.jpg>