

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 June 2009 (04.06.2009)

PCT

(10) International Publication Number
WO 2009/070073 A8

(51) International Patent Classification:
H04M 9/08 (2006.01) *H04M 3/00* (2006.01)
H04B 3/23 (2006.01)

(21) International Application Number:
PCT/SE2007/050920

(22) International Filing Date:
29 November 2007 (29.11.2007)

(25) Filing Language: English

(26) Publication Language: English

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ,

[Continued on next page]

(54) Title: A METHOD AND ARRANGEMENT FOR ECHO CANCELLATION OF VOICE SIGNALS

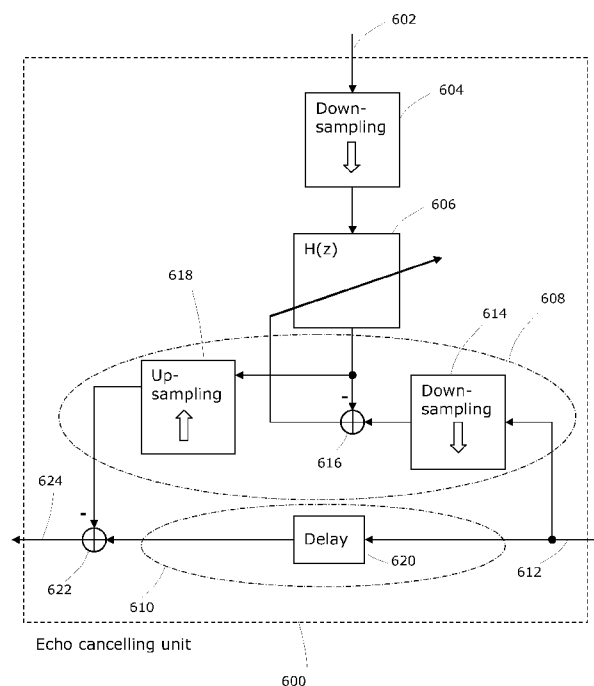


Figure 6

(57) Abstract: A method and arrangement for cancelling echoes in a communication terminal (400) during a voice call with an opposite party. The communication terminal (400) comprises an echo cancelling unit (416,600) adapted to produce an estimate of echo information in received speech signals coming from a microphone in the communication terminal (400), and subtract the estimate from the received microphone signals, before being transmitted to the opposite party. The estimate is produced based on down-sampled received microphone signals and down-sampled received speech signals from the opposite party. The down-sampled speech signals from the opposite party are filtered in a digital filter (606), and the output signals from the filter (606) are up-sampled to form the estimate. Performing echo cancelling based on down-sampled speech signals from the opposite party and down-sampled microphone signals, requires a reduced amount of processing capacity of the communication terminal, still resulting in a sufficiently high quality echo cancellation.



CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *of inventorship (Rule 4.17(iv))*

(48) Date of publication of this corrected version:

17 June 2010

(15) Information about Correction:

see Notice of 17 June 2010