Claims

1. An apparatus for encoding an audio signal comprising a plurality of frames, the apparatus comprising:

a modulated lapped transform tool for transforming a time domain, TD, representation of the audio signal, or a processed version thereof, into a frequency domain, FD, representation, the modulated lapped transform tool being configured to perform a modulated lapped transform analysis using an analysis windowing function having a meandering portion crossing a linear function in correspondence of at least four points; and

a bitstream writer configured to prepare a bitstream based on the FD representation of the audio signal or a processed version thereof,

wherein the analysis windowing function is defined so as to be asymmetric,

wherein the analysis windowing function is defined so as to be, in the meandering portion:

greater than the linear function in a first interval between a first crossing point and a second crossing point;

lower than the linear function in a second interval between the second crossing point and a third crossing point;

greater than the linear function in a third interval between the third crossing point and a fourth crossing point,

wherein the analysis windowing function is defined so that the absolute maximum value is in one of the first and third interval,

wherein the linear function is a constant function with constant value 1.

2. The apparatus of claim 1,

wherein the analysis windowing function is defined so that the maximum of the analysis windowing function is less than 25% greater than the value of the linear function at the same time instant.

3. The apparatus of claim 1, wherein the modulated lapped transform tool is configured to:

scale time input buffers and/or cosine or sine values with values of the analysis windowing function.

4. The apparatus of claim 3, wherein the modulated lapped transform tool is configured to use input buffers in the form of

$t(n) = x(Z - N_F + n)\ \ for\ \ n = 0..2N_F - 1 - Z$, and

$\mathrm{t(2N - Z + n) = 0 \quad for \quad n = 0..Z - 1}$

wherein $x(n)$ is a TD sample of the audio signal or a processed version of the audio signal at the time instant n, N_F is the number of samples processed in one frame, and Z is the number of leading zeros in modulated lapped transform window.

5. The apparatus of claim 1, wherein the modulated lapped transform tool is configured to perform:

$$X(k) = \sqrt{\frac{2}{N_F}} \sum_{n=0}^{2N_F-1} w_N(n) \cdot t(n) \cos\left[\frac{\pi}{N_F}\left(n + \frac{1}{2} + \frac{N_F}{2}\right)\left(k + \frac{1}{2}\right)\right]\ \ for\ \ k = 0..N_F - 1$$

where $X(k)$ is the modulated lapped transform frequency value at a frequency index k, n is the time instant, $w_N(n)$ is the analysis windowing function, $t(n)$ is a time input buffer, and N_F is the number of samples processed in one frame.

6 An apparatus for decoding an audio signal, or a processed version thereof, defined in the frequency domain, FD, the apparatus comprising:

a bitstream reader configured to read a bitstream encoding the audio signal; and

an inverse modulated lapped transform tool configured to perform an inverse modulated lapped transform synthesis on the audio signal, or a processed version thereof, using a synthesis windowing function having a meandering portion crossing a linear function in correspondence of at least four points,

wherein the synthesis windowing function is defined so as to be asymmetric,

wherein the synthesis windowing function is defined so as to be, in the meandering portion:

greater than the linear function in a first interval between a first crossing point and a second crossing point;

lower than the linear function in a second interval between the second crossing point and a third crossing point;

greater than the linear function in a third interval between the third crossing point and a fourth crossing point,

wherein the synthesis windowing function is defined so that the absolute maximum value is in one of the first and third interval,

wherein the linear function is a constant function with constant value 1.

7. The apparatus of claim 6,

wherein the synthesis windowing function is defined so that the maximum of the synthesis windowing function is less than 25% greater than the value of the linear function at the same time instant.

8. The apparatus of claim 6, wherein the inverse modulated lapped transform tool is configured to:

scale values at a time domain aliasing buffer with values of the synthesis windowing function.

9. The apparatus of claim 6, wherein the inverse modulated lapped transform tool is configured to generate a time domain, TD, signal representation in the form of

$$\hat{t}(n) = \sqrt{\frac{2}{N_F}} \sum_{k=0}^{N_F-1} \hat{X}(k) \cos\left[\frac{\pi}{N_F}\left(n + \frac{1}{2} + \frac{N_F}{2}\right)\left(k + \frac{1}{2}\right)\right] \; for \; n = 0..2N_F - 1$$

wherein $\hat{t}(n)$ is an aliasing buffer, $\hat{X}(k)$ is the audio signal or a processed version thereof, and N_F is the number of samples for a TD frame.

10. The apparatus of claim 6, wherein the inverse modulated lapped transform tool is configured to:

perform a windowing of the time-aliased buffer.

11. The apparatus of claim 6, wherein the inverse modulated lapped transform tool is configured to perform a windowing operation by performing:

$$\hat{t}(n) = w_N(2N - 1 - n) \cdot \hat{t}(n) \;\; for \;\; n = 0..2N_F - 1$$

12. The apparatus of claim 6, wherein the inverse modulated lapped transform tool is configured to perform an overlap-and-add operation.

13. The apparatus of claim 6, wherein the inverse modulated lapped transform tool is configured to perform an overlap-and-add operation as:

$$\hat{x}(n) = \; mem_ola_add(n) + \; \hat{t}(Z + n) \;\; for \;\; n = 0..N_F - Z - 1$$

$$\hat{x}(n) = \hat{t}(Z + n) \;\; for \;\; n = N_F - Z..N_F - 1$$

$$mem_ola_add(n) = \hat{t}(N_F + Z + n) \;\; for \;\; n = 0..N_F - Z - 1$$

wherein $\hat{x}(n)$ is the output value, $\hat{t}(.)$ is a windowed time-aliasing buffer, and N_F is the number of samples in one frame.

14. The apparatus of claim 1 or 6, wherein:

the analysis windowing function and/or the synthesis windowing function is defined so that, in the meandering portion, a relative maximum value is in the first or third interval and a relative minimum value is in the second interval.

15. The apparatus of claim 1 or 6, wherein:

the analysis windowing function and/or the synthesis windowing function is defined so as to present, in the meandering portion, a value greater than the linear function in an interval comprised of the 30% and 50% of two frames.

16. The apparatus of claim 1 or 6, wherein:

the analysis windowing function and/or the synthesis windowing function is defined so that the maximum of the analysis windowing function and/or the synthesis windowing

function is less than 25% greater than the value of the linear function at the same time instant.

17. The apparatus of claim 1 or 6, wherein:

the analysis windowing function and/or the synthesis windowing function is defined so that the maximum of the analysis windowing function and/or the synthesis windowing function is less than 5% greater than the value of the linear function at the same time instant.

18. The apparatus of claim 1 or 6, wherein:

the analysis windowing function and/or the synthesis windowing function is defined so as to present a second numerical differentiation between $-3*10^{-4}$ and $+3*10^{-4}$.

19. The apparatus of claim 1 or 6, wherein:

the analysis windowing function and/or the synthesis windowing function is defined so as to present a third numerical differentiation between $-2*10^{-5}$ and $+2*10^{-5}$.

20. The apparatus of claim 1 or 6, wherein:

the analysis windowing function and the synthesis windowing function is defined are time reversed versions of each other.

21. The apparatus of claim 1 or 6, further comprising:

a storage space to store the values of the analysis windowing function and/or the synthesis windowing function.

22. The apparatus of claim 1or 6, wherein the modified lapped transform is a modified discrete cosine transform, MDCT, or a modified discrete sine transform, MDST, and the inverse modified lapped transform is an inverse modified discrete cosine transform, IMDCT, or inverse modified discrete sine transform, IMDST.

23. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

-7.078546706512391e-04f, -2.098197727900724e-03f, -4.525198076002370e-03f,

-8.233976327300612e-03f, -1.337713096257934e-02f, -1.999721557401502e-02f,
-2.800909464274782e-02f, -3.721502082245055e-02f, -4.731768261606175e-02f,
-5.794654834034055e-02f, -6.867606753531441e-02f, -7.904647440788692e-02f,
-8.859705468085925e-02f, -9.688303623049199e-02f, -1.034961241263523e-01f,
-1.080766457616878e-01f, -1.103242262600913e-01f, -1.099809851424550e-01f,
-1.068172142230882e-01f, -1.006190418791648e-01f, -9.116452506492527e-02f,
-7.820617483254730e-02f, -6.146688124166948e-02f, -4.063362855701623e-02f,
-1.536329520788766e-02f, +1.470155068746303e-02f, +4.989736509080558e-02f,
+9.050369257152079e-02f, +1.366911019414417e-01f, +1.884686389218322e-01f,
+2.456456803467095e-01f, +3.077789078889820e-01f, +3.741642373060188e-01f,
+4.438114799213576e-01f, +5.154735456539700e-01f, +5.876661722564289e-01f,
+6.587619767809000e-01f, +7.270576699841359e-01f, +7.908752989295335e-01f,
+8.486643364959733e-01f, +8.991320235484349e-01f, +9.413348145272842e-01f,
+9.747634827941575e-01f, +9.994114730415857e-01f, +1.015760373791603e+00f,
+1.024736164069697e+00f, +1.027634294456205e+00f, +1.025991493983836e+00f,
+1.021427210603284e+00f, +1.015439859549357e+00f, +1.009366925499550e+00f,
+1.003508162416449e+00f, +9.988898206257559e-01f, +9.953133902427869e-01f,
+9.925943919208190e-01f, +9.905771957917731e-01f, +9.891371616557014e-01f,
+9.881790747212391e-01f, +9.876249269174586e-01f, +9.874056275509585e-01f,
+9.874524849192456e-01f, +9.876951134084213e-01f, +9.880640617030884e-01f,
+9.884926873551375e-01f, +9.889230031022089e-01f, +9.893074965384659e-01f,
+9.896146331889107e-01f, +9.898319269347060e-01f, +9.899693102025342e-01f,
+9.900603352632121e-01f, +9.901575015155720e-01f, +9.903255289051605e-01f,
+9.906303787150326e-01f, +9.911298894709990e-01f, +9.918665491182922e-01f,
+9.928619727154252e-01f, +9.941156069136238e-01f, +9.956033775539884e-01f,
+9.972793109558521e-01f, +9.990784840729244e-01f, +1.000922365901945e+00f,
+1.002728111386909e+00f, +1.004416038098237e+00f, +1.005919224127911e+00f,

+1.007189345025525e+00f, +1.008200146369426e+00f, +1.008949493525753e+00f,
+1.009458241425143e+00f, +1.009768980817384e+00f, +1.009940336228694e+00f,
+1.010039453539107e+00f, +1.010132323996401e+00f, +1.010272524848519e+00f,
+1.010494354532353e+00f, +1.010808068774316e+00f, +1.011201071127927e+00f,
+1.011641272406023e+00f, +1.012080125934687e+00f, +1.012458183122033e+00f,
+1.012706955800289e+00f, +1.012755013843985e+00f, +1.012530134411619e+00f,
+1.011962331100864e+00f, +1.010982135506986e+00f, +1.009512438049510e+00f,
+1.007460860286395e+00f, +1.004708677491086e+00f, +1.001111413242302e+00f,
+9.965041017623596e-01f, +9.907199995730845e-01f, +9.823765865983288e-01f,
+9.708821747608998e-01f, +9.546732976073705e-01f, +9.321553861564006e-01f,
+9.018003682081348e-01f, +8.623984077953557e-01f, +8.132817365236141e-01f,
+7.544551974836834e-01f, +6.866580716267418e-01f, +6.113488038789190e-01f,
+5.306181649316597e-01f, +4.471309850999502e-01f, +3.639114681156236e-01f,
+2.841647033392408e-01f, +2.110209448747969e-01f, +1.472287968327703e-01f,
+9.482665349502291e-02f, +5.482436608328477e-02f, +2.701461405056264e-02f,
+9.996743588367519e-03f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f,
+0.000000000000000e+00f

24. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward

order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

-4.619898752628163e-04f, -9.747166718929050e-04f, -1.664473096973725e-03f, -2.597106916737789e-03f, -3.806285163352241e-03f, -5.324608721716763e-03f, -7.175885277771099e-03f, -9.382480860899108e-03f, -1.195270300743193e-02f, -1.489528159506296e-02f, -1.820666399965468e-02f, -2.187570925786862e-02f, -2.588471937157619e-02f, -3.020862738245264e-02f, -3.481597793538342e-02f, -3.967067992672979e-02f, -4.472698045914417e-02f, -4.994225863256500e-02f, -5.526334794593565e-02f, -6.063717235243996e-02f, -6.600961519440657e-02f, -7.131966266443390e-02f, -7.651178225890490e-02f, -8.152964005319532e-02f, -8.631137544905677e-02f, -9.080411291245728e-02f, -9.495377758870335e-02f, -9.870736514214426e-02f, -1.020202684361974e-01f, -1.048438825017798e-01f, -1.071382314127799e-01f, -1.088690135027248e-01f, -1.099969655786929e-01f, -1.104898474883336e-01f, -1.103225838568563e-01f, -1.094621746650760e-01f, -1.078834293141886e-01f, -1.055612509762041e-01f, -1.024650162703341e-01f, -9.857014566194629e-02f, -9.384684920715425e-02f, -8.826309993000785e-02f, -8.178792716809512e-02f, -7.438785600211463e-02f, -6.602189797715241e-02f, -5.665655641133161e-02f, -4.624456893420224e-02f, -3.474585776145929e-02f, -2.211581608120528e-02f, -8.310425696208936e-03f, +6.717697635290676e-03f, +2.300642061077823e-02f, +4.060106462625085e-02f, +5.953239090915557e-02f, +7.983354189816511e-02f, +1.015233140203748e-01f, +1.246171387327525e-01f, +1.491152519299797e-01f, +1.750067399059861e-01f, +2.022699854906251e-01f, +2.308655379767671e-01f, +2.607365124918583e-01f, +2.918144694729168e-01f, +3.240095704645023e-01f, +3.572175180786021e-01f, +3.913146885756875e-01f, +4.261571642320424e-01f, +4.615925445090212e-01f, +4.974471592901086e-01f, +5.335326819631583e-01f, +5.696546730080154e-01f, +6.056083823929643e-01f, +6.411830842823245e-01f, +6.761653499550255e-01f, +7.103400549562944e-01f, +7.434943718765665e-01f, +7.754281892901473e-01f, +8.059437233154637e-01f,

+8.348589373399948e-01f, +8.620108336276733e-01f, +8.872599706865123e-01f,
+9.104863121445679e-01f, +9.315962496426278e-01f, +9.505220861927248e-01f,
+9.672366712325431e-01f, +9.817397501303696e-01f, +9.940557180662704e-01f,
+1.004247514102417e+00f, +1.012407428282884e+00f, +1.018650990561848e+00f,
+1.023118841384460e+00f, +1.025972450969440e+00f, +1.027397523939210e+00f,
+1.027585830688143e+00f, +1.026738673647482e+00f, +1.025061777648234e+00f,
+1.022756514615106e+00f, +1.020009139549275e+00f, +1.016996499560845e+00f,
+1.013915946100629e+00f, +1.011044869639164e+00f, +1.007773858455400e+00f,
+1.004848753962734e+00f, +1.002245009135684e+00f, +9.999393169239009e-01f,
+9.979055415627330e-01f, +9.961203379971326e-01f, +9.945597525471822e-01f,
+9.932031606606762e-01f, +9.920297273323891e-01f, +9.910230654424902e-01f,
+9.901668953434221e-01f, +9.894488374513719e-01f, +9.888556356037892e-01f,
+9.883778520531268e-01f, +9.880051626345804e-01f, +9.877295459610343e-01f,
+9.875412739766566e-01f, +9.874329809802893e-01f, +9.873949921033299e-01f,
+9.874197049003676e-01f, +9.874973205882319e-01f, +9.876201238703241e-01f,
+9.877781920433015e-01f, +9.879637979933339e-01f, +9.881678007807095e-01f,
+9.883835200189653e-01f, +9.886022219397892e-01f, +9.888182771263505e-01f,
+9.890247977602895e-01f, +9.892178658748239e-01f, +9.893923680007577e-01f,
+9.895463342815009e-01f, +9.896772011542693e-01f, +9.897859195209235e-01f,
+9.898725363809847e-01f, +9.899410789223559e-01f, +9.899945557067980e-01f,
+9.900394023736973e-01f, +9.900814722948890e-01f, +9.901293790312005e-01f,
+9.901902265696609e-01f, +9.902734448815004e-01f, +9.903862280081246e-01f,
+9.905379830873822e-01f, +9.907348826312993e-01f, +9.909842592301273e-01f,
+9.912905118607647e-01f, +9.916586940166509e-01f, +9.920906151219310e-01f,
+9.925887208794144e-01f, +9.931516528513824e-01f, +9.937790866568735e-01f,
+9.944668184371617e-01f, +9.952116634297566e-01f, +9.960068616185641e-01f,
+9.968461329825753e-01f, +9.977203369515556e-01f, +9.986213520769593e-01f,

+9.995382582242990e-01f, +1.000461955079660e+00f, +1.001380551217109e+00f,
+1.002284871786226e+00f, +1.003163845364970e+00f, +1.004009147462043e+00f,
+1.004811375053364e+00f, +1.005563968008037e+00f, +1.006259855360867e+00f,
+1.006895570408563e+00f, +1.007466616298057e+00f, +1.007972441990187e+00f,
+1.008411468616852e+00f, +1.008786009787269e+00f, +1.009097763850333e+00f,
+1.009351762546296e+00f, +1.009552401900961e+00f, +1.009707093778162e+00f,
+1.009822090220407e+00f, +1.009906958448099e+00f, +1.009969021400474e+00f,
+1.010017890428877e+00f, +1.010060809299530e+00f, +1.010106564965965e+00f,
+1.010161131093372e+00f, +1.010231078494249e+00f, +1.010319484524512e+00f,
+1.010430470494512e+00f, +1.010564099281000e+00f, +1.010721360243234e+00f,
+1.010899655674578e+00f, +1.011096993993037e+00f, +1.011308167670753e+00f,
+1.011529185153809e+00f, +1.011753008569803e+00f, +1.011973876511603e+00f,
+1.012182837094955e+00f, +1.012373028737774e+00f, +1.012535058602453e+00f,
+1.012660975529858e+00f, +1.012740575296603e+00f, +1.012765922449960e+00f,
+1.012726958954961e+00f, +1.012615904116265e+00f, +1.012422888521601e+00f,
+1.012140460211194e+00f, +1.011758810583150e+00f, +1.011269960947744e+00f,
+1.010663676735228e+00f, +1.009930754807923e+00f, +1.009058249873833e+00f,
+1.008034308295421e+00f, +1.006843352506855e+00f, +1.005470005637052e+00f,
+1.003894772403371e+00f, +1.002098854400575e+00f, +1.000060686758758e+00f,
+9.977600196406868e-01f, +9.951746430061121e-01f, +9.922861082472264e-01f,
+9.890757868707590e-01f, +9.847362453480265e-01f, +9.798613526271561e-01f,
+9.741378617337759e-01f, +9.673331975559332e-01f, +9.592539757044516e-01f,
+9.496984081652284e-01f, +9.384634163826711e-01f, +9.253567968750328e-01f,
+9.101986790930605e-01f, +8.928338316495705e-01f, +8.731437835983047e-01f,
+8.510420440685049e-01f, +8.264839911291133e-01f, +7.994681492797084e-01f,
+7.700431275216928e-01f, +7.383028603058783e-01f, +7.043814340356083e-01f,
+6.684616478236647e-01f, +6.307755329382612e-01f, +5.915799587176216e-01f,

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+5.511703155400274e-01f, +5.098915423728179e-01f, +4.681017110047964e-01f,
+4.261772971493010e-01f, +3.845172335531009e-01f, +3.435228672445613e-01f,
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+1.941021906320984e-01f, +1.621735416384830e-01f, +1.330015240938615e-01f,
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+4.676538412257621e-02f, +3.288072750732215e-02f, +2.183057564646270e-02f,
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+0.000000000000000e+00f, +0.000000000000000e+00
```

25. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

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```

+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f

26. The apparatus of claims 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

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+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f

27. The apparatus of claims 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

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+0.000000000000000e+00f, +0.000000000000000e+00f, +0.000000000000000e+00f

28. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

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+9.167746294201033e-01, +9.141896283466009e-01, +9.115442516266717e-01,
+9.088377281110291e-01, +9.060694681113471e-01, +9.032390575925977e-01,
+9.003458895224528e-01, +8.973891675497357e-01, +8.943683555809617e-01,
+8.912831789317232e-01, +8.881332000806269e-01, +8.849178157571976e-01,
+8.816366171218113e-01, +8.782893885841422e-01, +8.748757216290605e-01,
+8.713950183935990e-01, +8.678469565343039e-01, +8.642314881034361e-01,
+8.605483499580321e-01, +8.567970644671067e-01, +8.529774446610170e-01,
+8.490895965655302e-01, +8.451334654019179e-01, +8.411088323972666e-01,
+8.370156984112052e-01, +8.328542805780399e-01, +8.286245548070180e-01,
+8.243262611129502e-01, +8.199594783897041e-01, +8.155246236571582e-01,
+8.110218607207131e-01, +8.064511006873497e-01, +8.018126046593852e-01,
+7.971069856439827e-01, +7.923346478686025e-01, +7.874957820910923e-01,
+7.825908231062452e-01, +7.776204488292163e-01, +7.725851026241404e-01,
+7.674849949914248e-01, +7.623206183595970e-01, +7.570927486638241e-01,
+7.518019652814979e-01, +7.464486491227057e-01, +7.410334206850239e-01,
+7.355571439110484e-01, +7.300205729992958e-01, +7.244243523154849e-01,
+7.187693676298663e-01, +7.130567383226717e-01, +7.072872946666678e-01,
+7.014615845640527e-01, +6.955805444755916e-01, +6.896454997760704e-01,
+6.836575016451227e-01, +6.776173229836567e-01, +6.715260316843978e-01,
+6.653849997460716e-01, +6.591955305148172e-01, +6.529588449241264e-01,
+6.466761515320369e-01, +6.403486426892321e-01, +6.339773402000435e-01,
+6.275631129756770e-01, +6.211072197441818e-01, +6.146113064454106e-01,
+6.080768062101946e-01, +6.015049275244732e-01, +5.948969938609885e-01,
+5.882544536827298e-01, +5.815787608870452e-01, +5.748713693712827e-01,
+5.681329838024681e-01, +5.613674511156831e-01, +5.545756384163615e-01,
+5.477589552377587e-01, +5.409188627354240e-01, +5.340568757452271e-01,

+5.271745849688633e-01, +5.202736834971303e-01, +5.133560289814199e-01,
+5.064236063322167e-01, +4.994780733459294e-01, +4.925207788759675e-01,
+4.855532972838063e-01, +4.785774177949064e-01, +4.715949057752619e-01,
+4.646075325068186e-01, +4.576172599874965e-01, +4.506262048599546e-01,
+4.436362416499966e-01, +4.366490208265834e-01, +4.296663370497900e-01,
+4.226901117060164e-01, +4.157221460416020e-01, +4.087641442756610e-01,
+4.018179771137481e-01, +3.948856590950779e-01, +3.879690747948260e-01,
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+1.596340539111631e-01, +1.546132267478876e-01, +1.496705434426226e-01,
+1.448069879076800e-01, +1.400238206749698e-01, +1.353218971490514e-01,
+1.307016182576054e-01, +1.261637395672916e-01, +1.217094187032866e-01,
+1.173392980385558e-01, +1.130534434072722e-01, +1.088524061173192e-01,
+1.047372831131808e-01, +1.007084973747942e-01, +9.676572618933918e-02,
+9.290929444691418e-02, +8.914024389873081e-02, +8.545874375771015e-02,
+8.186400751918757e-02, +7.835612100141792e-02, +7.493612463933132e-02,
+7.160392900131578e-02, +6.835821233920988e-02, +6.519882821193619e-02,

+6.212691236769909e-02, +5.914211536028985e-02, +5.624247476796568e-02,
+5.342762364238927e-02, +5.069893012340838e-02, +4.805577285587748e-02,
+4.549537570011979e-02, +4.301717763585556e-02, +4.062301532941800e-02,
+3.831198264259714e-02, +3.608020726673365e-02, +3.392698736873631e-02,
+3.185504779821543e-02, +2.986316337017634e-02, +2.794584821783607e-02,
+2.610239043507366e-02, +2.433722657129812e-02, +2.264871565562373e-02,
+2.102867478775550e-02, +1.947675241971700e-02, +1.800101670620712e-02,
+1.659903330901047e-02, +1.525710171255895e-02, +1.397610119023076e-02,
+1.277238121584596e-02, +1.163787492636242e-02, +1.053809096662833e-02,
+9.464262017505555e-03, +8.433087782643726e-03, +7.364501936162659e-03,
+6.073847663871269e-03, +4.449668997344740e-03, +2.485333612762431e-03,
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+0.00000000000000e+00, +0.00000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000

+1.921659800166160e-02, +3.382719081038548e-02, +5.424831667522354e-02,
+8.120777668775610e-02, +1.152171887125930e-01, +1.564942331034909e-01,
+2.049363422022628e-01, +2.601166575816199e-01, +3.212814164616093e-01,
+3.873472997948746e-01, +4.569497078592333e-01, +5.285192958868393e-01,
+6.003522489375573e-01, +6.706896380227332e-01, +7.378044458510402e-01,
+8.000925313431716e-01, +8.561409184410547e-01, +9.048272294524792e-01,
+9.453685031730190e-01, +9.773507430600533e-01, +1.000800872826561e+00,
+1.016171590112097e+00, +1.024315247630982e+00, +1.026415431432931e+00,
+1.023858366571912e+00, +1.018135705524407e+00, +1.010794822557756e+00,
+1.003406509762925e+00, +9.967831265986109e-01, +9.920995520917141e-01,
+9.892206942816891e-01, +9.879658322200813e-01, +9.881273531631907e-01,
+9.894805541465801e-01, +9.917849916000535e-01, +9.947847580943504e-01,
+9.982119669301160e-01, +1.001791235858836e+00, +1.005242583245485e+00,
+1.008283053756130e+00, +1.010631281038659e+00, +1.012015300253356e+00,
+1.012180753005270e+00, +1.010896765282633e+00, +1.007963362035220e+00,
+1.003227255072391e+00, +9.966050551498514e-01, +9.868284225039941e-01,
+9.731250287581631e-01, +9.540636479502398e-01, +9.283864275822276e-01,
+8.950916858157935e-01, +8.534769362643825e-01, +8.032090930429980e-01,
+7.444735201251689e-01, +6.780787033699449e-01, +6.053970453856138e-01,
+5.282077505750667e-01, +4.486552956056635e-01, +3.691875990296312e-01,
+2.924566408966777e-01, +2.210718537110463e-01, +1.573148583944309e-01,
+1.030525757797768e-01, +5.982732244758054e-02, +2.871831923385133e-02,
+9.683884928956490e-03, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00.

30. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward

order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

+6.143388180964179e-04, +1.489582832987000e-03, +2.884104959764029e-03, +4.934298832466617e-03, +7.779130464154915e-03, +1.154910606525086e-02, +1.637155619860352e-02, +2.237116158648752e-02, +2.966159685753317e-02, +3.835663329277230e-02, +4.855610986150206e-02, +6.035055738891727e-02, +7.382288203064732e-02, +8.903563687211119e-02, +1.060356225286319e-01, +1.248534855777947e-01, +1.454931890869180e-01, +1.679435556337752e-01, +1.921728622634411e-01, +2.181238261985594e-01, +2.457259744642953e-01, +2.748839432649996e-01, +3.054824712370942e-01, +3.373873799614014e-01, +3.704415932452488e-01, +4.044749630814483e-01, +4.393004362003260e-01, +4.747225454237193e-01, +5.105341492548225e-01, +5.465201916422433e-01, +5.824658100332457e-01, +6.181452662624718e-01, +6.533411462740817e-01, +6.878367295965062e-01, +7.214176027060971e-01, +7.538887973483771e-01, +7.850546571907628e-01, +8.147397447696774e-01, +8.427819363777799e-01, +8.690376742017057e-01, +8.933935477349644e-01, +9.157483563218768e-01, +9.360270196617569e-01, +9.541731142261065e-01, +9.701635474343885e-01, +9.840036439809510e-01, +9.957199420334376e-01, +1.005374268639838e+00, +1.013046655758663e+00, +1.018843380560658e+00, +1.022896948293643e+00, +1.025355286710874e+00, +1.026382881625701e+00, +1.026155530733488e+00, +1.024853974580724e+00, +1.022664602721801e+00, +1.019779396547454e+00, +1.016391686789653e+00, +1.012697033320358e+00, +1.008885191761748e+00, +1.005378742804807e+00, +1.001563778373068e+00, +9.982531564931281e-01, +9.954346644968789e-01, +9.930950268060122e-01, +9.912170911359961e-01, +9.897805192546195e-01, +9.887624937408933e-01, +9.881383235740961e-01, +9.878819413827574e-01, +9.879662130250981e-01, +9.883630508181326e-01, +9.890434070785485e-01, +9.899772316163624e-01, +9.911334564321237e-01, +9.924800441092685e-01, +9.939841207305906e-01, +9.956121471675398e-01,

+9.973300590248015e-01, +9.991033633647473e-01, +1.000897441314013e+00,
+1.002677088643863e+00, +1.004407190937699e+00, +1.006052289109999e+00,
+1.007576934100958e+00, +1.008945862447015e+00, +1.010124241309341e+00,
+1.011077969726137e+00, +1.011773962181442e+00, +1.012180362866919e+00,
+1.012266707295288e+00, +1.012004064757857e+00, +1.011365223023975e+00,
+1.010324996851905e+00, +1.008860731864438e+00, +1.006952983357691e+00,
+1.004586273379809e+00, +1.001749900308864e+00, +9.984386632116344e-01,
+9.946500332901397e-01, +9.895756853352172e-01, +9.838303127859196e-01,
+9.769999155793757e-01, +9.689141159310996e-01, +9.594038121639412e-01,
+9.483086322505029e-01, +9.354860218216989e-01, +9.208101305030523e-01,
+9.041732260327581e-01, +8.854882249661838e-01, +8.646864947605046e-01,
+8.417237467711145e-01, +8.165875713256009e-01, +7.892986353718001e-01,
+7.599171886893816e-01, +7.285474515411827e-01, +6.953282935906302e-01,
+6.604334017809461e-01, +6.240661431421666e-01, +5.864461424698465e-01,
+5.478160663871147e-01, +5.084499758302218e-01, +4.686361426418982e-01,
+4.286789889246253e-01, +3.889032719013045e-01, +3.496431418636314e-01,
+3.112360816586544e-01, +2.740128472224535e-01, +2.382847225401666e-01,
+2.043379825955252e-01, +1.724305860483632e-01, +1.427939789949265e-01,
+1.156385879569741e-01, +9.115821766571995e-02, +6.952749039054593e-02,
+5.088975408628225e-02, +3.533430192568954e-02, +2.286680405144430e-02,
+1.338005016725895e-02, +6.640506529168652e-03, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
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+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,

+0.000000000000000e+00

31. The apparatus of claims 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

+5.087227626168386e-04, +9.959086585790517e-04, +1.682208006328800e-03, +2.609697259047744e-03, +3.819056787237678e-03, +5.349319592933909e-03, +7.243906383895192e-03, +9.540832613229890e-03, +1.227637642543709e-02, +1.548950238899404e-02, +1.921659800166160e-02, +2.349369619441617e-02, +2.835199581667961e-02, +3.382719081038548e-02, +3.994939538719628e-02, +4.674775238543380e-02, +5.424831667522354e-02, +6.247770776443612e-02, +7.145835917501348e-02, +8.120777668775610e-02, +9.174400412319896e-02, +1.030764959637497e-01, +1.152171887125930e-01, +1.281665713944242e-01, +1.419264381068653e-01, +1.564942331034909e-01, +1.718593189799504e-01, +1.880134254543744e-01, +2.049363422022628e-01, +2.226123055761096e-01, +2.410151242797736e-01, +2.601166575816199e-01, +2.798871008989962e-01, +3.002880135563586e-01, +3.212814164616093e-01, +3.428208463088390e-01, +3.648596557863134e-01, +3.873472997948746e-01, +4.102294951869188e-01, +4.334494534591082e-01, +4.569497078592333e-01, +4.806696403251166e-01, +5.045473815014847e-01, +5.285192958868393e-01, +5.525196099932443e-01, +5.764872452085427e-01, +6.003522489375573e-01, +6.240509872809882e-01, +6.475182586093196e-01, +6.706896380227332e-01, +6.935029068990036e-01, +7.158927516396895e-01, +7.378044458510402e-01, +7.591787241845952e-01, +7.799586608897265e-01, +8.000925313431716e-01, +8.195318652294690e-01, +8.382288957404715e-01, +8.561409184410547e-01, +8.732316951214179e-01, +8.894702022170831e-01, +9.048272294524792e-01, +9.192736375782965e-01, +9.327940405054362e-01, +9.453685031730190e-01, +9.569883933538136e-01, +9.676486424195593e-01, +9.773507430600533e-01, +9.861027831072527e-01,

+9.939122412655677e-01, +1.000800872826561e+00, +1.006787811971719e+00,
+1.011901269172423e+00, +1.016171590112097e+00, +1.019636414864842e+00,
+1.022336613864005e+00, +1.024315247630982e+00, +1.025621299895396e+00,
+1.026303439275662e+00, +1.026415431432931e+00, +1.026007933174836e+00,
+1.025137435167917e+00, +1.023858366571912e+00, +1.022226936424625e+00,
+1.020300550334848e+00, +1.018135705524407e+00, +1.015792146756340e+00,
+1.013325966774524e+00, +1.010794822557756e+00, +1.008265131568879e+00,
+1.006046874304407e+00, +1.003406509762925e+00, +1.000977398831985e+00,
+9.987704535700208e-01, +9.967831265986109e-01, +9.950118905889862e-01,
+9.934523971504882e-01, +9.920995520917141e-01, +9.909475998606236e-01,
+9.899902426925508e-01, +9.892206942816891e-01, +9.886318043013834e-01,
+9.882160904669929e-01, +9.879658322200813e-01, +9.878730767519871e-01,
+9.879296932443894e-01, +9.881273531631907e-01, +9.884575535474619e-01,
+9.889115869213529e-01, +9.894805541465801e-01, +9.901553455166457e-01,
+9.909266562913843e-01, +9.917849916000535e-01, +9.927206838643636e-01,
+9.937239208721489e-01, +9.947847580943504e-01, +9.958931493776203e-01,
+9.970389567617592e-01, +9.982119669301160e-01, +9.994020338838508e-01,
+1.000598323893564e+00, +1.001791235858836e+00, +1.002969837054169e+00,
+1.004123786397111e+00, +1.005242583245485e+00, +1.006315717067918e+00,
+1.007332693127034e+00, +1.008283053756130e+00, +1.009156423082384e+00,
+1.009942535308151e+00, +1.010631281038659e+00, +1.011212744622770e+00,
+1.011677230257499e+00, +1.012015300253356e+00, +1.012217779097186e+00,
+1.012275790821109e+00, +1.012180753005270e+00, +1.011924425888915e+00,
+1.011498917644724e+00, +1.010896765282633e+00, +1.010110965619444e+00,
+1.009135094671655e+00, +1.007963362035220e+00, +1.006590756505588e+00,
+1.005013115379014e+00, +1.003227255072391e+00, +1.001231060075500e+00,
+9.990235555436858e-01, +9.966050551498514e-01, +9.939894706113089e-01,

+9.904539200261149e-01, +9.868284225039941e-01, +9.827716736909488e-01,
+9.782206672373213e-01, +9.731250287581631e-01, +9.674323528812744e-01,
+9.610947043524248e-01, +9.540636479502398e-01, +9.462952991190324e-01,
+9.377489107516087e-01, +9.283864275822276e-01, +9.181762606422500e-01,
+9.070861558801854e-01, +8.950916858157935e-01, +8.821696237804294e-01,
+8.683025287048570e-01, +8.534769362643825e-01, +8.376852006833730e-01,
+8.209275259764013e-01, +8.032090930429980e-01, +7.845450482523652e-01,
+7.649554851899686e-01, +7.444735201251689e-01, +7.231348066419057e-01,
+7.009860555207412e-01, +6.780787033699450e-01, +6.544686506489734e-01,
+6.302212149502727e-01, +6.053970453856138e-01, +5.800715766089168e-01,
+5.543129276657669e-01, +5.282077505750727e-01, +5.018369724442092e-01,
+4.752902962082383e-01, +4.486552956056652e-01, +4.220281118338883e-01,
+3.955057965950340e-01, +3.691875990296320e-01, +3.431732847389720e-01,
+3.175633015043183e-01, +2.924566408966782e-01, +2.679463783886042e-01,
+2.441231331518492e-01, +2.210718537110466e-01, +1.988719153219592e-01,
+1.775967625327044e-01, +1.573148583944310e-01, +1.380903364946733e-01,
+1.199837497591550e-01, +1.030525757797769e-01, +8.735085011789188e-02,
+7.292811584897502e-02, +5.982732244758056e-02, +4.808178837444506e-02,
+3.771135297837851e-02, +2.871831923385135e-02, +2.108352028641225e-02,
+1.476289412849005e-02, +9.683884928956495e-03, +5.642168789286858e-03,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,

+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00

32. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

+4.595886345493055e-04, +7.919323614002698e-04, +1.227927169310031e-03, +1.783653266717233e-03, +2.479549413444207e-03, +3.329799454594261e-03, +4.353535478916468e-03, +5.564965156664018e-03, +6.986108359341676e-03, +8.629882322202329e-03, +1.051343406844975e-02, +1.265082642578719e-02, +1.506090447446532e-02, +1.775591229287213e-02, +2.075475983187825e-02, +2.406813715401559e-02, +2.771207863541604e-02, +3.169933248543932e-02, +3.604609640533871e-02, +4.076128638095439e-02, +4.586038120884381e-02, +5.135136676471998e-02, +5.724780220726930e-02, +6.355854744461048e-02, +7.029450733434550e-02, +7.745987198268531e-02, +8.506635369887924e-02, +9.311641620512773e-02, +1.016162955027316e-01, +1.105690806271684e-01, +1.199789286645804e-01, +1.298417294090302e-01, +1.401623800497866e-01, +1.509371564593891e-01, +1.621632295622287e-01, +1.738354123649302e-01, +1.859520359191026e-01, +1.985008828937603e-01, +2.114778554475382e-01, +2.248732557074316e-01, +2.386763947872762e-01, +2.528729453658238e-01, +2.674547009618951e-01, +2.824031465430401e-01, +2.977050145264297e-01, +3.133419120661713e-01, +3.292976696294886e-01, +3.455490160824131e-01, +3.620795045342974e-01, +3.788648665671841e-01, +3.958851576591690e-01, +4.131143794748322e-01, +4.305308301005456e-01, +4.481076715576617e-01, +4.658227790464821e-01, +4.836466393241829e-01, +5.015564851667653e-01, +5.195228071176610e-01, +5.375197039843709e-01, +5.555183841040963e-01, +5.734957812557457e-01, +5.914186654649489e-01, +6.092622887527459e-01,

+6.269981160888640e-01, +6.446002007776794e-01, +6.620384583071039e-01,
+6.792906550106088e-01, +6.963256426589250e-01, +7.131194393772130e-01,
+7.296469905863920e-01, +7.458864594794676e-01, +7.618094719403713e-01,
+7.773958448163656e-01, +7.926208751337592e-01, +8.074666387233143e-01,
+8.219101564897180e-01, +8.359343163788637e-01, +8.495180470826319e-01,
+8.626485837105826e-01, +8.753083234662220e-01, +8.874884715160425e-01,
+8.991737724042251e-01, +9.103527429187326e-01, +9.210144133066616e-01,
+9.311556192776946e-01, +9.407644740241826e-01, +9.498382236872068e-01,
+9.583732599601223e-01, +9.663690412284377e-01, +9.738235617865406e-01,
+9.807442506043361e-01, +9.871297972052695e-01, +9.929872268444632e-01,
+9.983241398929388e-01, +1.003150760219063e+00, +1.007473713377193e+00,
+1.011309151636166e+00, +1.014666681083198e+00, +1.017563337333301e+00,
+1.020014681326785e+00, +1.022039872150903e+00, +1.023654257342442e+00,
+1.024881624147540e+00, +1.025739288978437e+00, +1.026250709375593e+00,
+1.026436666375082e+00, +1.026320857404224e+00, +1.025922917798664e+00,
+1.025269979527211e+00, +1.024382188798244e+00, +1.023284940887058e+00,
+1.022000829220643e+00, +1.020555973231408e+00, +1.018971390778550e+00,
+1.017275179369116e+00, +1.015489129111694e+00, +1.013639356938881e+00,
+1.011747750709711e+00, +1.009840844244693e+00, +1.007939764480188e+00,
+1.006407400915498e+00, +1.004374825095777e+00, +1.002469814737132e+00,
+1.000689073754539e+00, +9.990346001249977e-01, +9.975024904153303e-01,
+9.960941547576162e-01, +9.948051243621099e-01, +9.936362728142866e-01,
+9.925826537087717e-01, +9.916447007525191e-01, +9.908170758245324e-01,
+9.900998445795673e-01, +9.894873685512386e-01, +9.889794323427195e-01,
+9.885701787626714e-01, +9.882591911282058e-01, +9.880404423341358e-01,
+9.879133688360181e-01, +9.878718098237022e-01, +9.879150762106034e-01,
+9.880368938846610e-01, +9.882364564839506e-01, +9.885073687439192e-01,

+9.888487088987707e-01, +9.892539488627546e-01, +9.897220412447528e-01,
+9.902463287269285e-01, +9.908256340476208e-01, +9.914531811725067e-01,
+9.921276814881759e-01, +9.928422499725458e-01, +9.935955098307742e-01,
+9.943804814776256e-01, +9.951957244449919e-01, +9.960341878404958e-01,
+9.968943831870675e-01, +9.977692009836100e-01, +9.986571134591464e-01,
+9.995509738170480e-01, +1.000449227898040e+00, +1.001344692310058e+00,
+1.002235786606954e+00, +1.003115291715261e+00, +1.003981602446902e+00,
+1.004827468041713e+00, +1.005651275972376e+00, +1.006445772052972e+00,
+1.007209352772459e+00, +1.007934783656087e+00, +1.008620496650569e+00,
+1.009259314290145e+00, +1.009849742422788e+00, +1.010384692193296e+00,
+1.010862783160582e+00, +1.011277044709547e+00, +1.011626247430694e+00,
+1.011903571699736e+00, +1.012107954864219e+00, +1.012232755709885e+00,
+1.012277089047072e+00, +1.012234505114778e+00, +1.012104319978655e+00,
+1.011880293122688e+00, +1.011561972516341e+00, +1.011143373963981e+00,
+1.010624321020038e+00, +1.009999148545101e+00, +1.009268031808824e+00,
+1.008425698479647e+00, +1.007472774447058e+00, +1.006404483571931e+00,
+1.005222003295591e+00, +1.003921160689206e+00, +1.002503762756151e+00,
+1.000966332772540e+00, +9.993114007411373e-01, +9.975362702189898e-01,
+9.956442306333592e-01, +9.936333924912825e-01, +9.908677480361242e-01,
+9.882326326262749e-01, +9.853620567056602e-01, +9.822305093671991e-01,
+9.788185853162172e-01, +9.751026333215268e-01, +9.710631852370086e-01,
+9.666759668947944e-01, +9.619242192293307e-01, +9.567841986369235e-01,
+9.512394303101863e-01, +9.452700238623795e-01, +9.388615698236068e-01,
+9.319946435581106e-01, +9.246592033932568e-01, +9.168383396399868e-01,
+9.085218034087421e-01, +8.996967011299613e-01, +8.903562054918268e-01,
+8.804877931535187e-01, +8.700884209228057e-01, +8.591492134848259e-01,
+8.476686394755906e-01, +8.356428970797861e-01, +8.230753889817990e-01,

+8.099649296155544e-01, +7.963204506324437e-01, +7.821460539775005e-01,
+7.674541821769616e-01, +7.522563457568547e-01, +7.365702052057368e-01,
+7.204090552899627e-01, +7.037975107157410e-01, +6.867542812151157e-01,
+6.693041888771051e-01, +6.514710959179395e-01, +6.332854832820911e-01,
+6.147685389896460e-01, +5.959553778639692e-01, +5.768737955463938e-01,
+5.575534287167304e-01, +5.380320138068979e-01, +5.183454027643563e-01,
+4.985259415650634e-01, +4.786156067459849e-01, +4.586473038370941e-01,
+4.386643656872842e-01, +4.187046888325280e-01, +3.988123056192917e-01,
+3.790262923635886e-01, +3.593914828698096e-01, +3.399474132903109e-01,
+3.207392420889753e-01, +3.018061113177048e-01, +2.831905952786929e-01,
+2.649288369241889e-01, +2.470608550624402e-01, +2.296201119084317e-01,
+2.126433716126151e-01, +1.961601816145380e-01, +1.802035203864437e-01,
+1.647996883470626e-01, +1.499787548077656e-01, +1.357643522991611e-01,
+1.221842534547464e-01, +1.092601994264172e-01, +9.701788451015501e-02,
+8.547680283183663e-02, +7.465976378295235e-02, +6.458254322751883e-02,
+5.526281189874138e-02, +4.670976978373095e-02, +3.893244425578719e-02,
+3.192976013776996e-02, +2.569810636390756e-02, +2.022259265088492e-02,
+1.548317776486452e-02, +1.144924909653903e-02, +8.076482660383199e-03,
+5.300044080947794e-03, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,

+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00

33. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

+4.090106504820579e-04, +6.143388180964179e-04, +8.571759876954877e-04,
+1.147015057857495e-03, +1.489582832987000e-03, +1.889770382231583e-03,
+2.353000800169909e-03, +2.884104959764029e-03, +3.488213786635855e-03,
+4.170040431489613e-03, +4.934298832466617e-03, +5.787076505403503e-03,
+6.733811743137561e-03, +7.779130464154915e-03, +8.927044958757816e-03,
+1.018202888968871e-02, +1.154910606525086e-02, +1.303349217699797e-02,
+1.463951288465963e-02, +1.637155619860352e-02, +1.823455383898077e-02,
+2.023309488998589e-02, +2.237116158648752e-02, +2.465237348403478e-02,
+2.708101935270475e-02, +2.966159685753317e-02, +3.239884850877327e-02,
+3.529601774976465e-02, +3.835663329277230e-02, +4.158447932459513e-02,
+4.498322421745353e-02, +4.855610986150206e-02, +5.230596475016741e-02,
+5.623624576084146e-02, +6.035055738891727e-02, +6.465186317477950e-02,
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+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00

34. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

+3.821992968116373e-04, +5.337292962876158e-04, +7.010318350640769e-04,
+8.910357994632938e-04, +1.107726421735994e-03, +1.354305556720234e-03,
+1.632968062524617e-03, +1.944392065549996e-03, +2.291251920978034e-03,
+2.676357471188558e-03, +3.102160324883627e-03, +3.569302917352426e-03,
+4.080147004222224e-03, +4.637409387087253e-03, +5.243697651112320e-03,
+5.900394401532485e-03, +6.609908124535202e-03, +7.375089966000295e-03,
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35. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

+3.538498803770035e-04, +4.595886345493055e-04, +5.595519647227489e-04, +6.718404887323839e-04, +7.919323614002698e-04, +9.254835101516548e-04, +1.069418485858920e-03, +1.227927169310031e-03, +1.398277791978983e-03, +1.584491535026729e-03, +1.783653266717233e-03, +1.999873692180148e-03, +2.230687004705732e-03, +2.479549413444207e-03, +2.744274680521470e-03, +3.028517203082985e-03, +3.329799454594260e-03, +3.651493788541270e-03, +3.991659081158673e-03, +4.353535478916468e-03, +4.734803493964832e-03, +5.139354888882466e-03, +5.564965156664017e-03, +6.015065135312130e-03, +6.487669532207667e-03, +6.986108359341676e-03, +7.507986430774601e-03, +8.056692238103912e-03, +8.629882322202329e-03, +9.230898632007642e-03, +9.857619542786990e-03, +1.051343406844975e-02, +1.119617236058772e-02, +1.190938692951881e-02, +1.265082642578719e-02, +1.342375201935177e-02, +1.422598597626579e-02, +1.506090447446532e-02, +1.592611511144210e-02, +1.682519266177794e-02, +1.775591229287213e-02, +1.872166356881472e-02, +1.972014746423546e-02, +2.075475983187825e-02, +2.182299926812682e-02, +2.292828566629717e-02, +2.406813715401559e-02, +2.524583465017564e-02, +2.645943128544517e-02, +2.771207863541604e-02, +2.900157039370381e-02,

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+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00,
+0.000000000000000e+00, +0.000000000000000e+00, +0.000000000000000e+00

36. The apparatus of claim 1 or 6, wherein the analysis windowing function and/or the synthesis windowing function comprises at least a succession, in forward or backward order, formed by the following values or at least a sub-succession with 10 of the following values if different from 0, with ±1% of tolerance:

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37. An apparatus according to claim 1 or 6, wherein the analysis windowing function and/or synthesis windowing function is defined so as to present a first numerical differentiation between -0.01 and +0.01.

38. An apparatus according to claim 1 or 6, wherein the analysis windowing function and/or synthesis windowing function is defined so as to present a second numerical differentiation between -10^{-4} and $+10^{-4}$.

39. An apparatus according to claim 1 or 6, wherein the analysis windowing function and/or synthesis windowing function is defined so as to present a second numerical differentiation between -10^{-5} and $+10^{-5}$.

40. A method for encoding an audio signal comprising a plurality of frames, the method comprising:

performing a modified cosine transformation, MDCT, analysis for transforming a time domain, TD, representation of the audio signal, or a processed version thereof, into a frequency domain, FD, representation, using an analysis windowing function having a meandering portion which passes a linear function in correspondence of at least four points,

wherein the analysis windowing function is defined so as to be asymmetric,

wherein the analysis windowing function is defined so as to be, in the meandering portion:

greater than the linear function in a first interval between a first crossing point and a second crossing point;

lower than the linear function in a second interval between the second crossing point and a third crossing point;

greater than the linear function in a third interval between the third crossing point and a fourth crossing point,

wherein the analysis windowing function is defined so that the absolute maximum value is in one of the first and third interval,

wherein the linear function is a constant function with constant value 1.

41. A method for decoding an audio signal, or a processed version thereof, defined in the frequency domain, FD, the method comprising

performing a modified cosine transformation, MDCT, synthesis for transforming the FD representation of an audio signal, or processed version thereof, into a time domain, TD, representation, using a synthesis windowing function having a meandering portion which passes a linear function in correspondence of at least four points,

wherein the synthesis windowing function is defined so as to be, in the meandering portion:

greater than the linear function in a first interval between a first crossing point and a second crossing point;

lower than the linear function in a second interval between the second crossing point and a third crossing point;

greater than the linear function in a third interval between the third crossing point and a fourth crossing point,

wherein the synthesis windowing function is defined so that the absolute maximum value is in one of the first and third interval,

wherein the linear function is a constant function with constant value 1.

42. A non-transitory storage unit storing instructions which, when running on a processor, cause the processor to execute a method according to claim 40 or 41.