

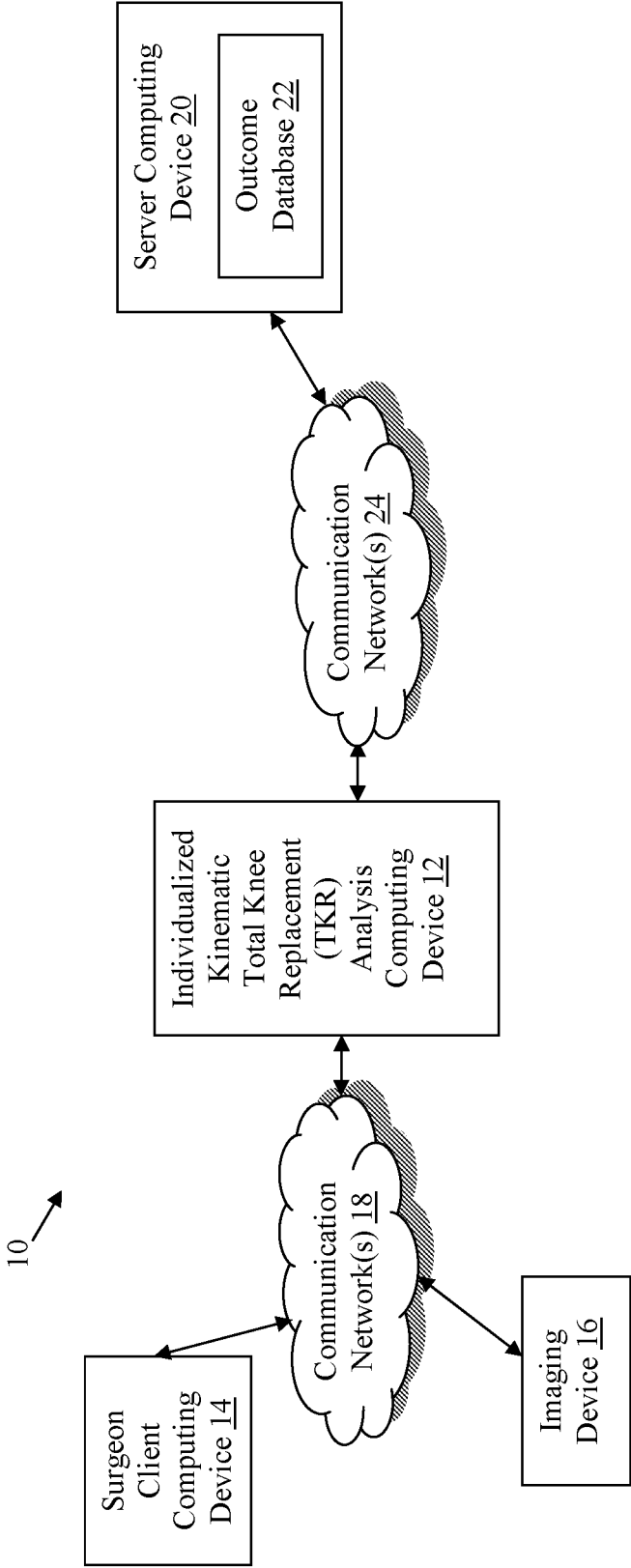


FIG. 1

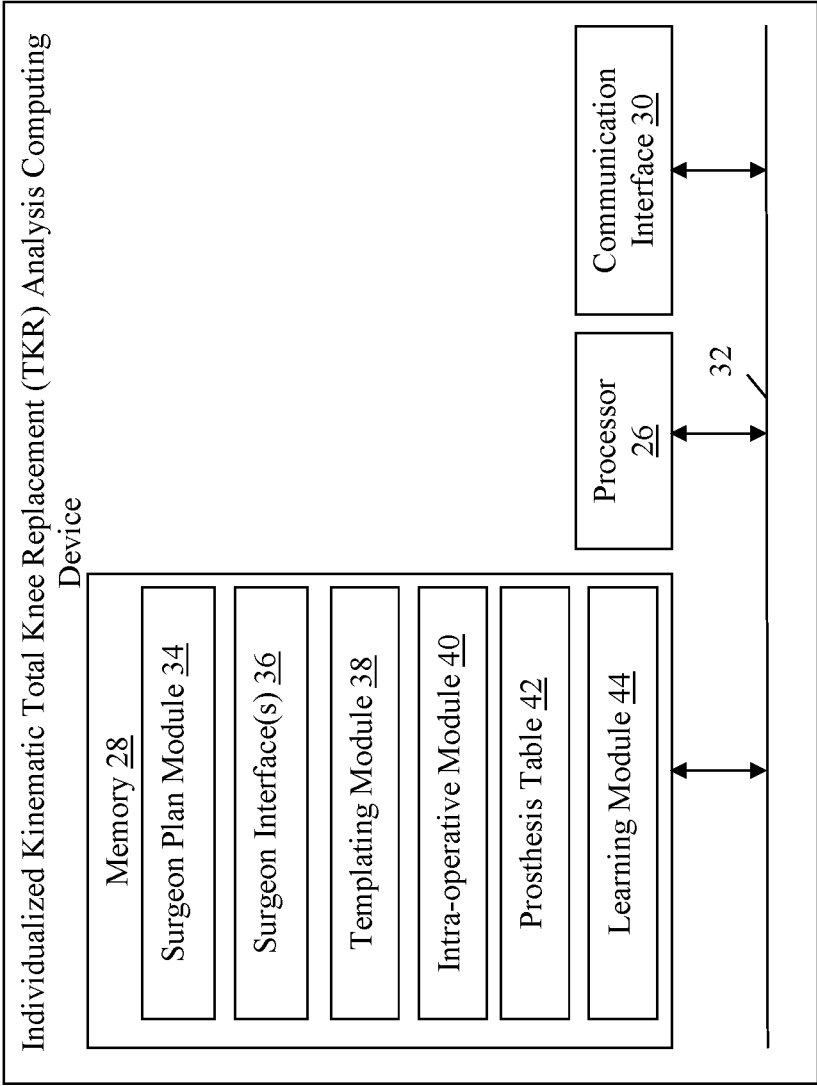


FIG. 2

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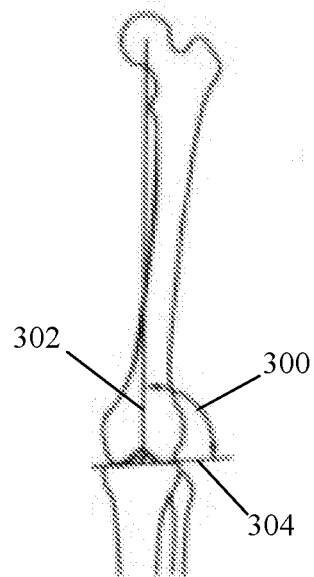


FIG. 3

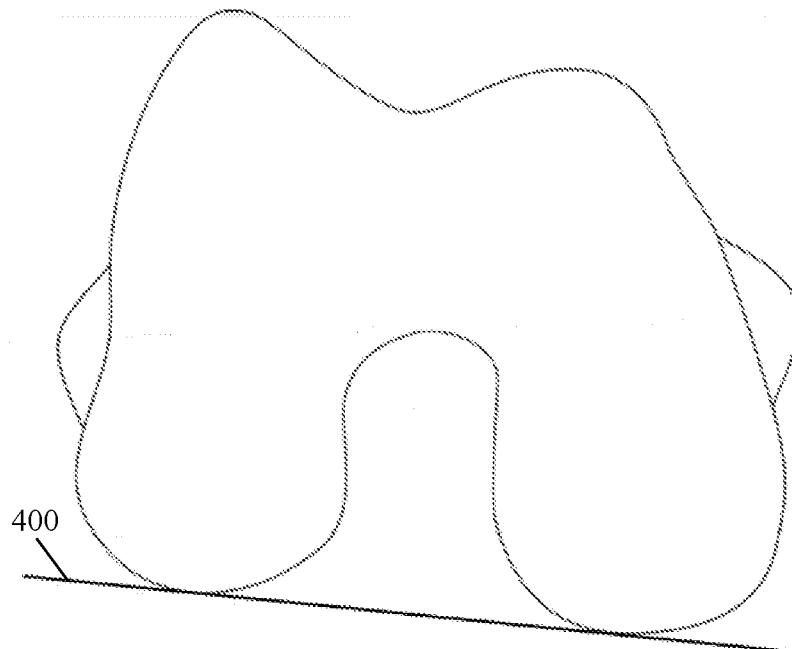


FIG. 4

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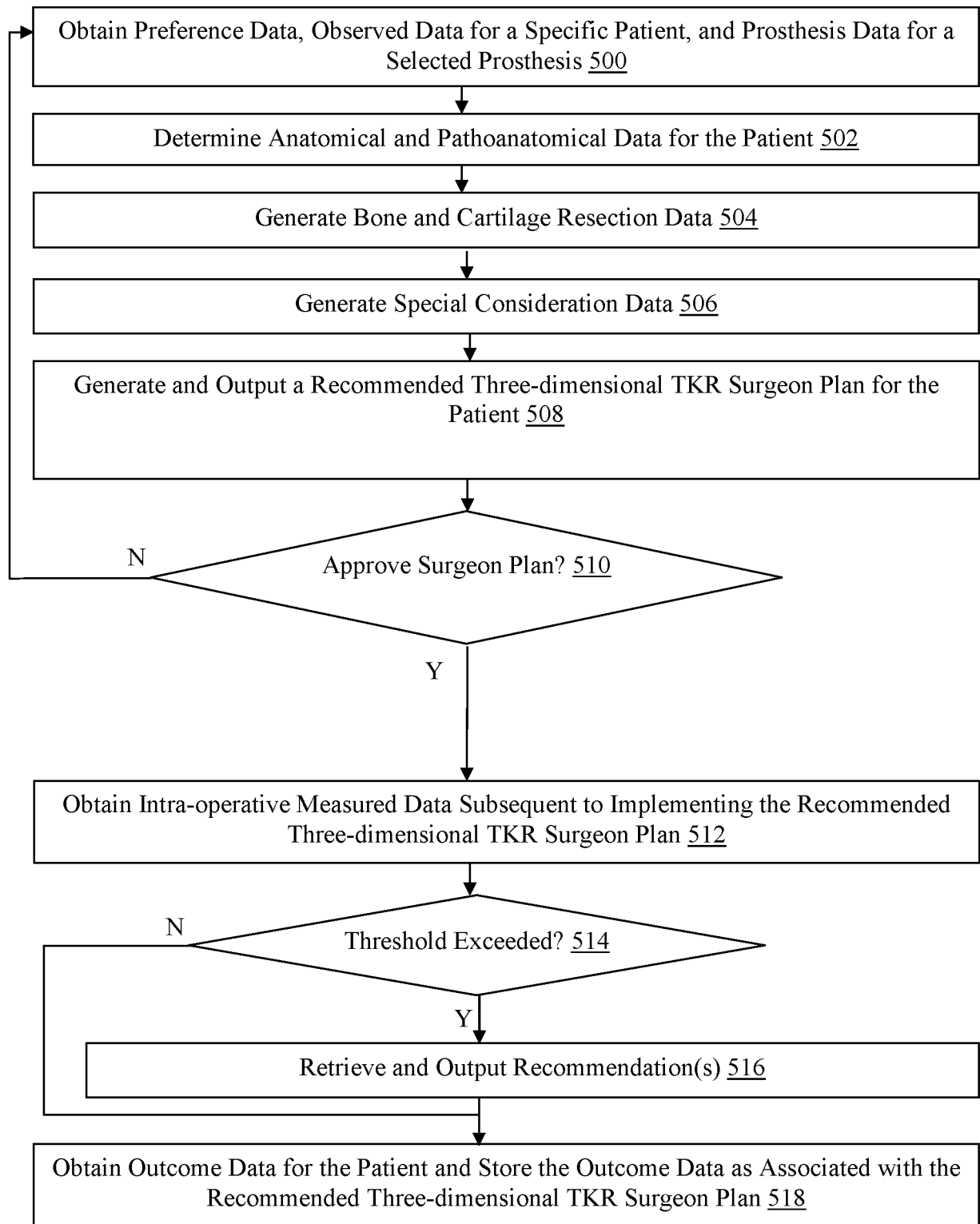


FIG. 5

Variable Name	600	Question
		Preference Data
SP-ProsthesisManufacturer		Choose prosthesis manufacturer
SP-ProsthesisType		Choose prosthesis type
SP-UseManufacturerRecSlope		Use the manufacturers recommended slope?
SP-SetLimitCoronalFemoralValgus		Limit coronal femoral implant valgus to maximum number?
SP-CoronalFemoralValgusMax		What is the coronal femoral implant valgus limit?
SP-DefineCoronalDegreeToMMTranslation		What is the translation of femoral coronal angle degrees to millimeters? (1 degree = ? mm)
SP-SetLimitExternalFemoralRotation		Limit femoral external rotation to maximum?
SP-ExternalFemoralRotationMax		What is the femoral external rotation maximum?
SP-DefineExtRotationDegreeToMMTranslation		What is the translation of femoral external rotation angle degrees to millimeters? (1 degree = ? mm)
SP-CoronalTibiaVarusMax		Maximum angle of coronal tibial implant varus?
SP-CartilageThickness		What is default cartilage thickness (mm)?
SP-AdjustManufacturerDistalFemoralThickness		Adjust manufacturer's thickness of the distal prosthesis for femoral cut planning?
SP-DistalFemoralThicknessAdjustment		What is the distal prosthesis thickness adjustment?
SP-FlexFemoralComponent		Flex the femoral component?
SP-FlexFemoralComponentAmount		What is the amount (in degrees) to flex the femoral component?

FIG. 6A

Variable Name	602 Question
	Preference Data
SP-AlignProsthesisToPosteriorCondylarAxis	Align femoral rotation with posterior condylar axis (If no, use mechanical alignment: stop)
SP-AdditionalPosteriorMedialResection	Add additional resection to the medial posterior cut (to avoid accidentally internally rotating femur)?
SP-AdditionalPosteriorMedialResectionAmount	What is the amount of additional posterior medial resection?
SP-TibiaCutMax	What is the maximum planned tibial cut thickness?
SP-AddPosteriorMedialResectionModerateOrSeverePFSublux	Add additional resection to posterior medial cut for moderate or severe patellofemoral subluxation?
SP-AddPosteriorMedialResectionModeratePFSubluxAmount	What is the amount (in mm) of additional resection for moderate patellofemoral subluxation?
SP-AddPosteriorMedialResectionSeverePFSubluxAmount	What is the amount (in mm) of additional resection for severe patellofemoral subluxation?
SP-AddCorrectionLateralTibialTubercle	Add correction for lateral tibial tubercle?
SP-AddCorrectionLateralTibialTubercleAmount	What is the amount of correction for lateral tibial tubercle?
SP-CorrectLimbVarus	Make correction for limb varus?
SP-LimbVarusCorrectionThreshold	What is the threshold (in degrees) for correcting limb varus?
SP-LimbVarusCorrectionAmount	What is the amount (in degrees) of limb varus correction?
SP-CorrectLimbValgus	Make correction for limb valgus?
SP-LimbValgusCorrectionThreshold	What is the threshold (in degrees) for correcting limb valgus?
SP-LimbValgusCoronalCorrectionAmount	What is the amount (in degrees) of limb valgus coronal correction?
SP-LimbValgusAxialCorrectionAmount	What is the amount (in degrees) of limb valgus axial correction?
SP-PosteriorStabilizedComponent	Use a posterior stabilized component instead of CR component?
SP-Kerf	Amount of kerf for each saw cut (in mm)?

FIG. 6B

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Variable Name	<u>700</u>	Question
		Observed Data
MD-MedialFemoralCartilageWear		How much medial wear is present? (0%, 25%, 50%, 75% or 100%)
MD-LateralFemoralCartilageWear		How much lateral wear is present? (0%, 25%, 50%, 75% or 100%)
MD-PatellofemoralSubluxation		Is there patellofemoral subluxation? (None, Moderate, Severe)
MD-MedialFemoralCondyleWear		Is there medial femoral condyle bone wear on the coronal view? (0, 1mm, 2mm, 3mm, 4mm)
MD-LateralFemoralCondyleWear		Is there lateral femoral condyle bone wear on the coronal view? (0, 1mm, 2mm, 3mm, 4mm)

FIG. 7

Variable Name	<u>800</u>	Question
		Template Data
X-LeftOrRight		Left or right knee?
X-MechanicalAnatomicalFemurAngle		Mechanical angle - Anatomical angle of femur?
X-LimbAlignment		Limb alignment (coronal hip-knee-ankle angle)?
X-VarusOrValgus		Is limb varus or valgus?
X-mLDFA		Mechanical lateral distal femoral angle from long leg coronal view?
X-MedialTibialCutThickness		What is the medial tibial cut thickness (mm)?
X-LateralTibialCutThickness		What is the lateral tibial cut thickness (mm)?
X-PatellaThickness		What is the patella thickness (mm)?
X-LateralTibialTubercle		Is there a lateral tibial tubercle - from 3D imaging?
X-TibialSlope		What is the tibial slope?

FIG. 8

Surgeon Plan

Distal femur	<u>900</u>	
Flexion (degrees)		
PL-FemoralSagittalFlexionAngle		2.0
Valgus angle off Anat. Axis (degrees)		
PL-FemoralValgusAngleRelToAnatAxis		4.0
Valgus angle off Mech Axis (degrees)		
PL-FemoralValgusAngleRelToMechAxis		0.5
	Medial (mm)	
	PL-FemoralMedialDistalResection	7.5
	Lateral (mm)	
	PL-FemoralLateralDistalResection	9.5
Posterior Femur		
External rotation angle (degrees)		
PL-FemoralExternalRotation		0.5
	Medial (mm)	
	PL-FemoralPosteriorMedialResection	9.0
	Lateral (mm)	
	PL-FemoralPosteriorLateralResection	9.5
Tibia		
Varus angle (off Mech Axis)		
PL-TibialVarusAngle		1.5
	Slope (degrees)	
	PL-TibialSlope	7.0
	Medial (mm)	
	PL-TibialMedialResection	4.0
	Lateral (mm)	
	PL-TibialLateralResection	8.0
Special Considerations		
Possible release needed?		
PL-PossibleRelease		No
Consider narrow component?		
PL-ConsiderNarrowComponent		No
May require additional 2 degree ER?		
PL-ConsiderAddlTwoDegreeExtRotation		No
Posterior Stabilized Implant?		
SP-PosteriorStabilizedComponent		No

FIG. 9

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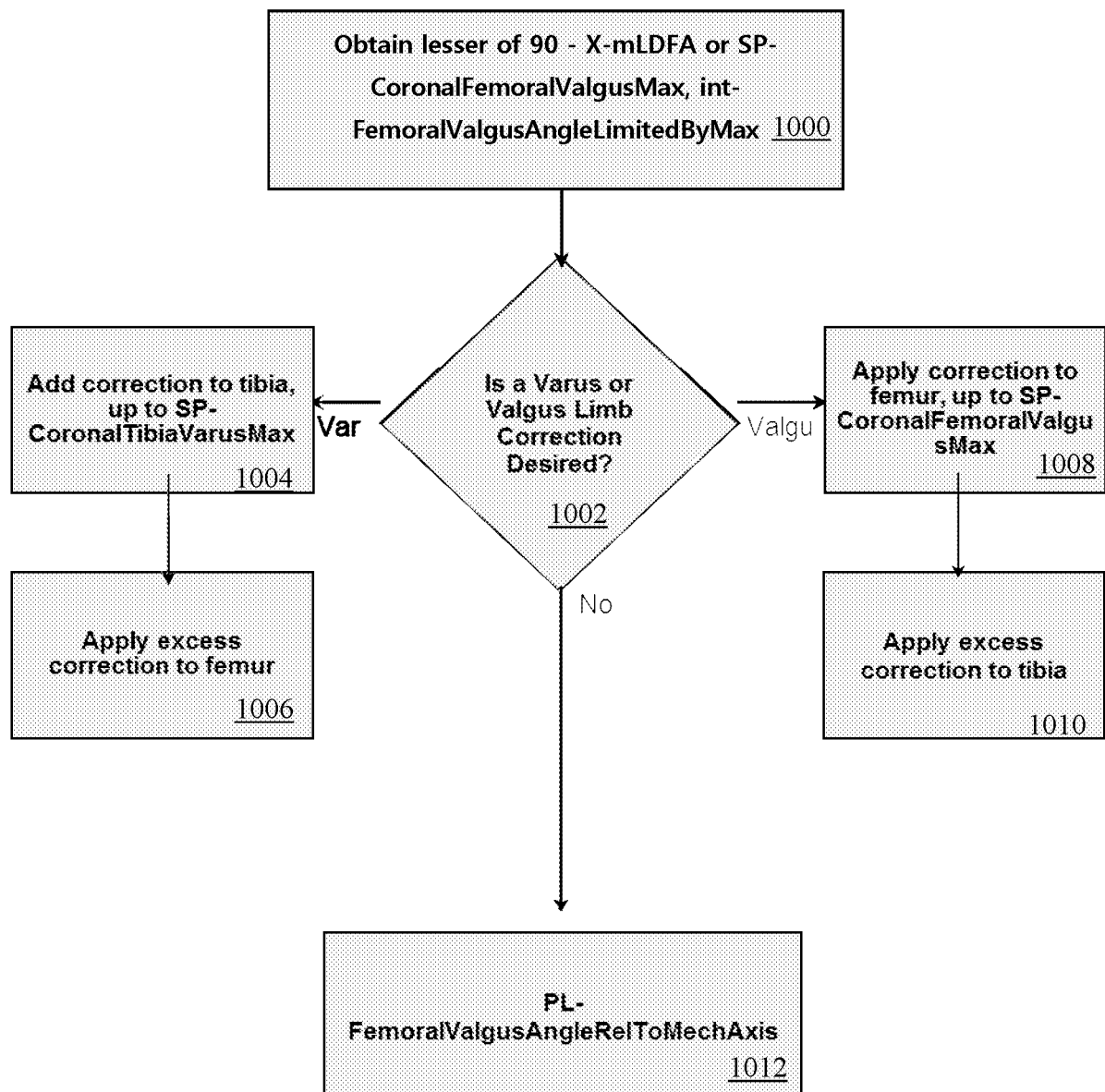


FIG. 10

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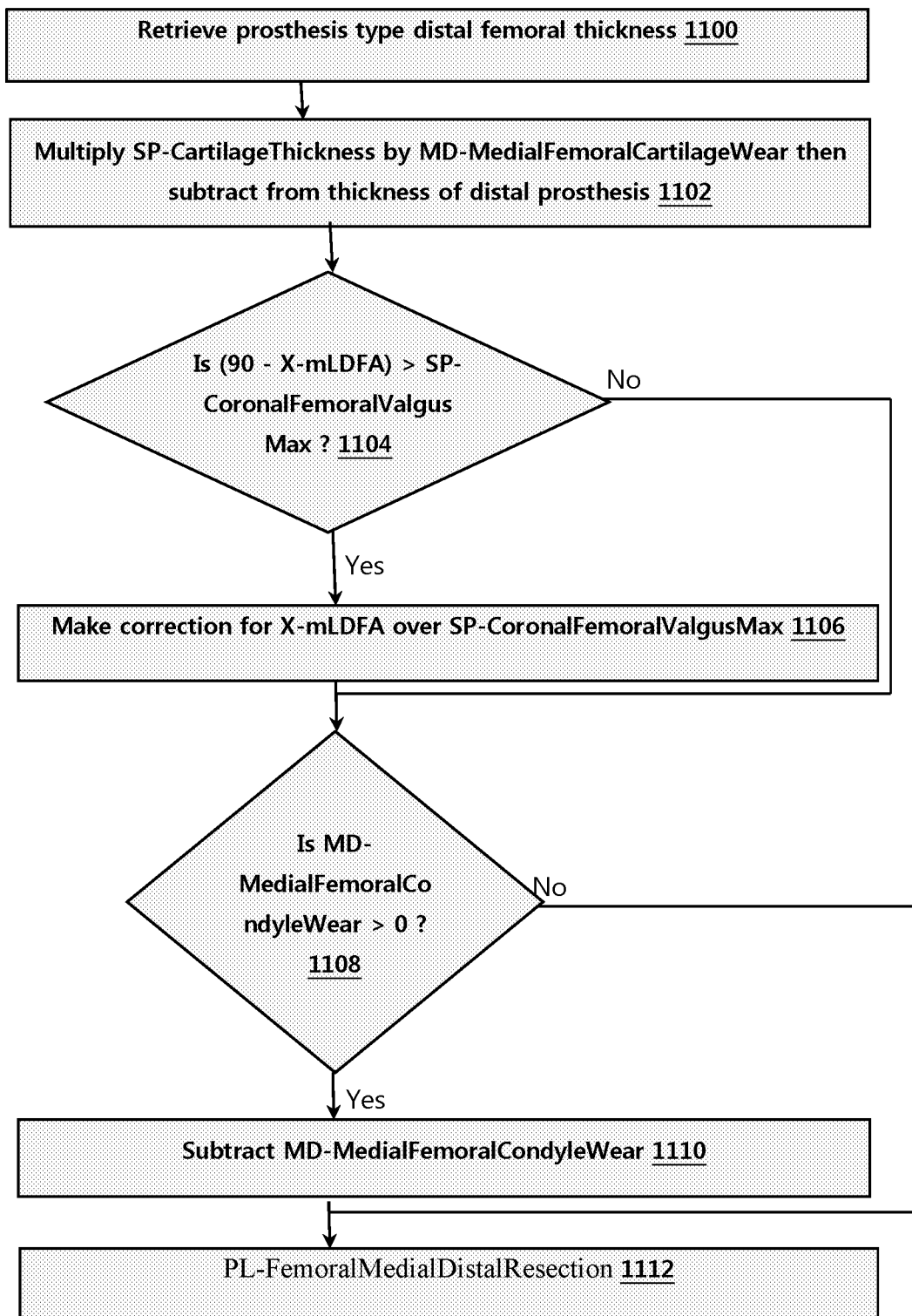


FIG. 11

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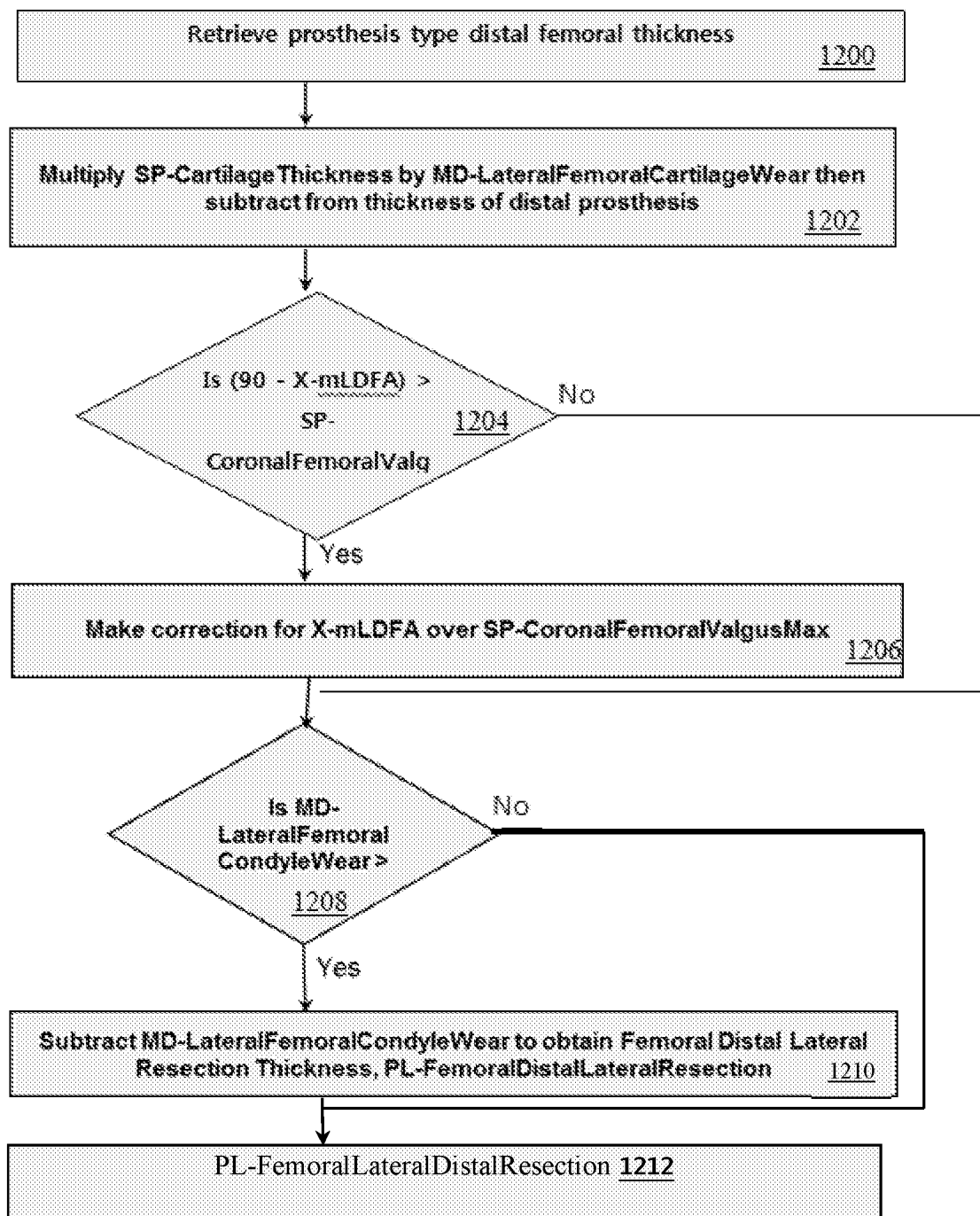


FIG. 12

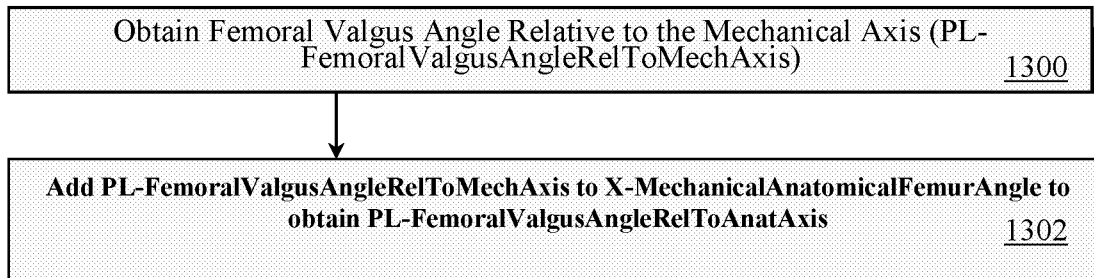


FIG. 13

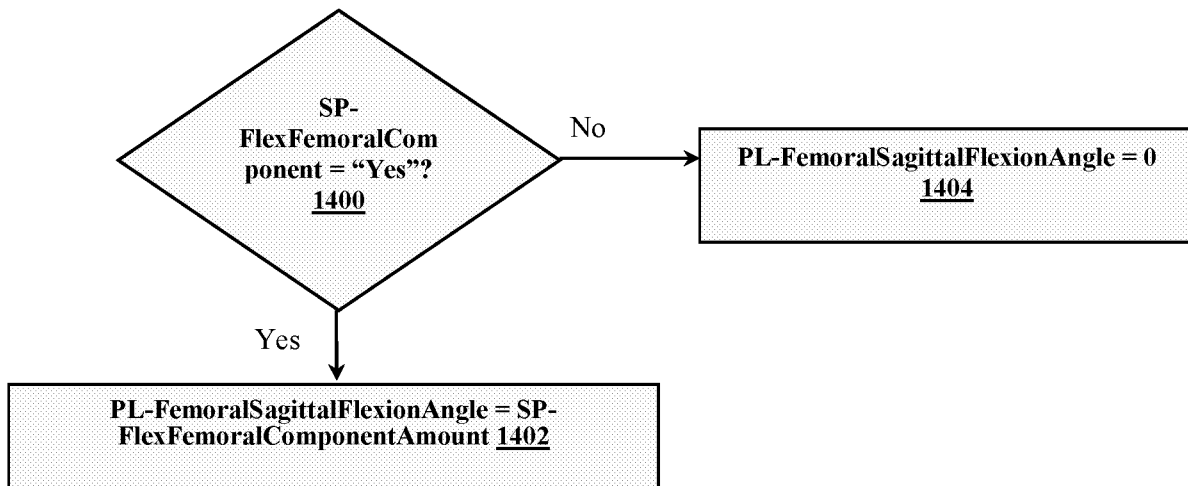


FIG. 14

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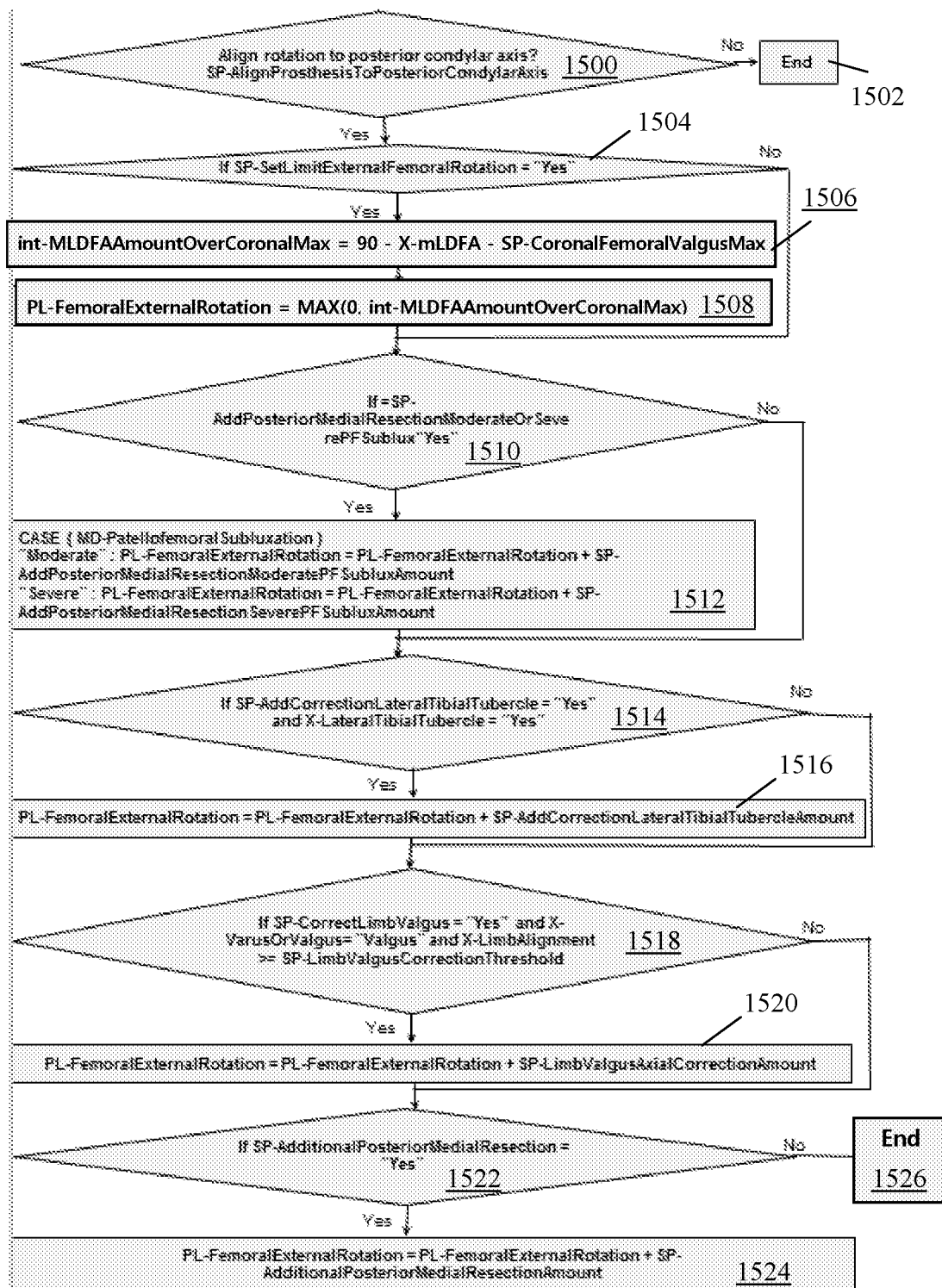


FIG. 15

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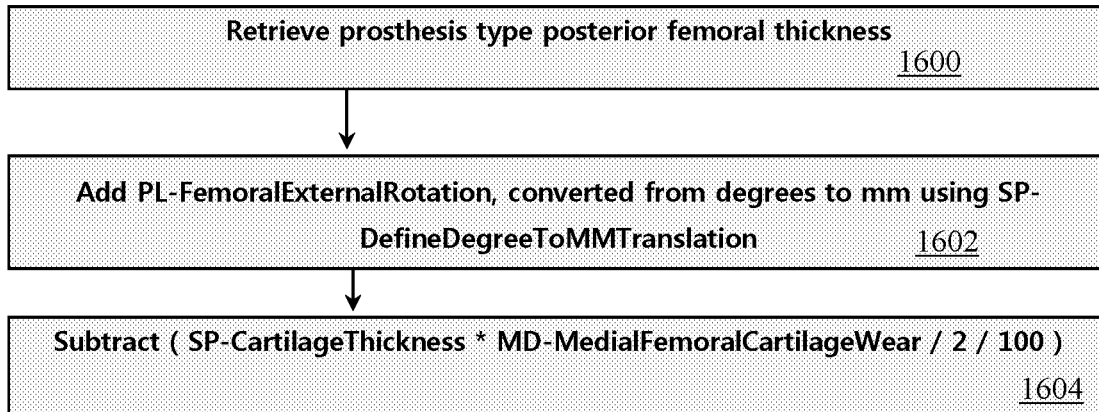


FIG. 16

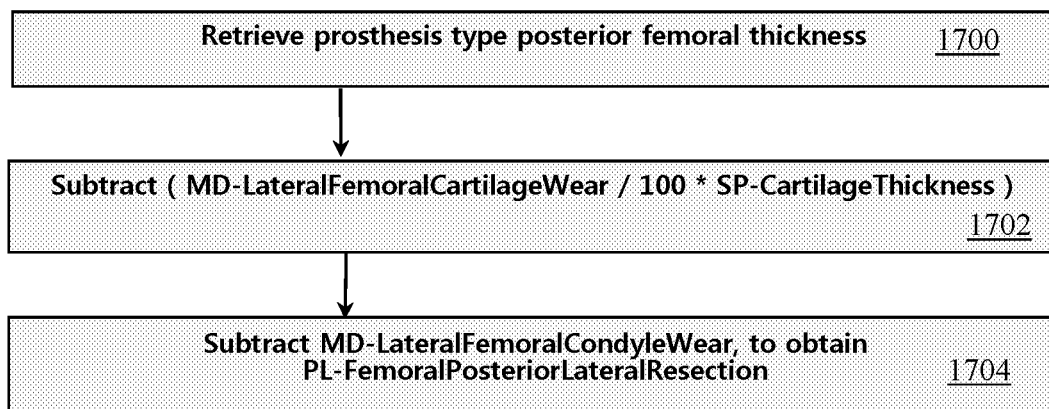


FIG. 17

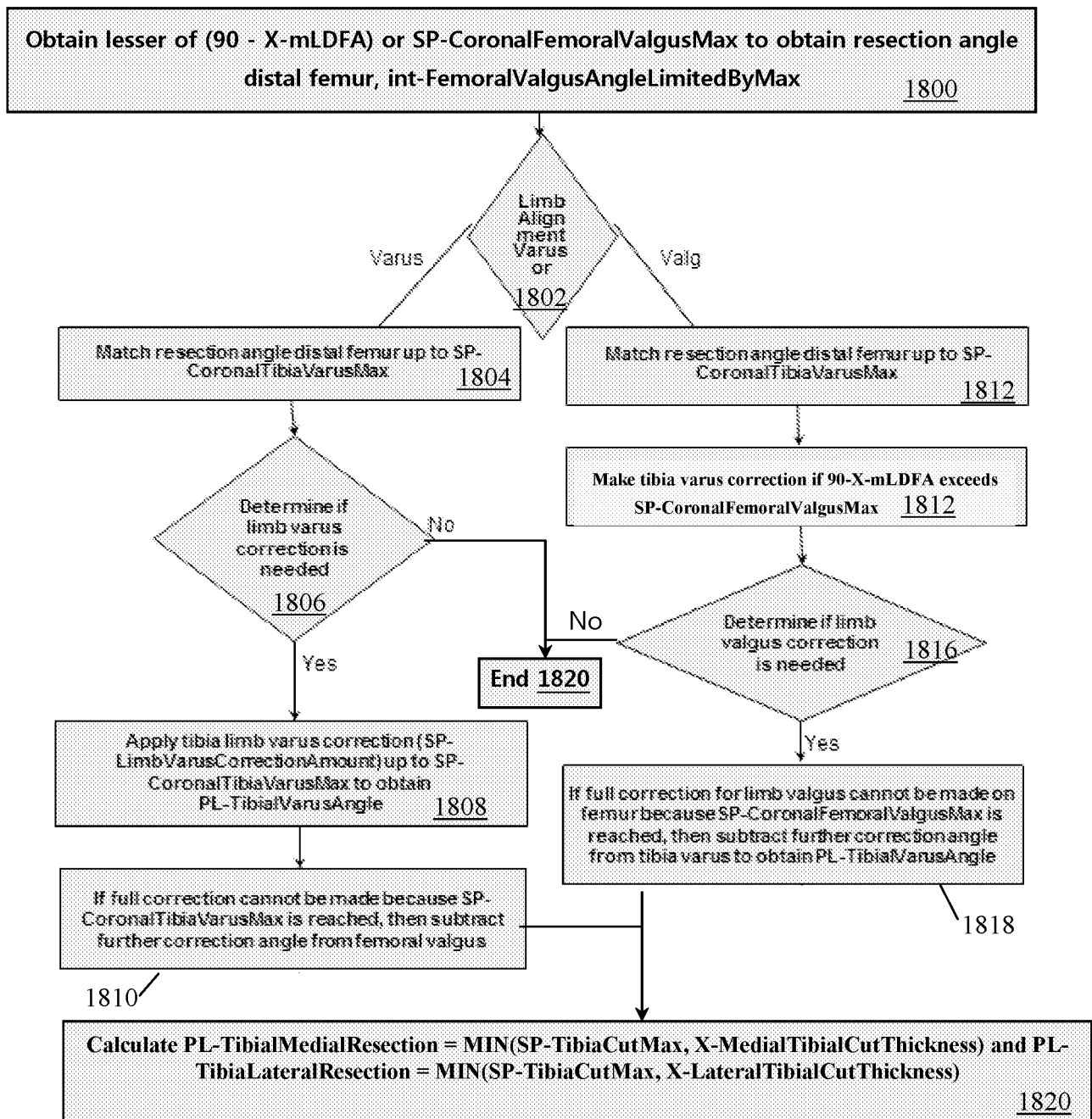
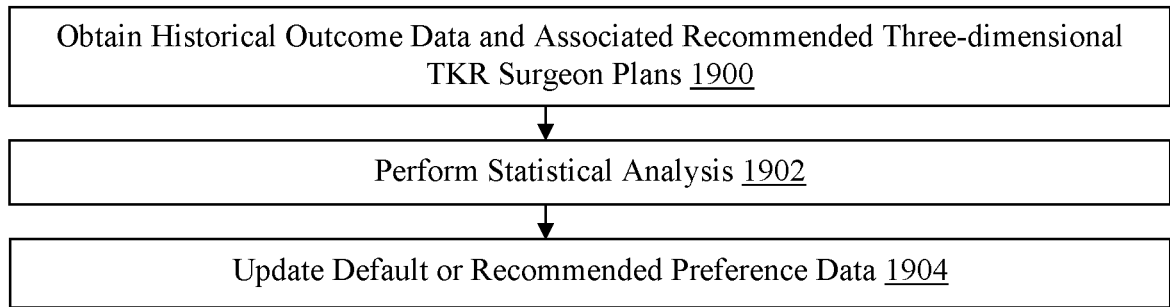


FIG. 18

**FIG. 19**