CLAIMS

1. Use of a positive-tetravalent vanadium compound comprising a vanadium-oxygen bond in the preparation of a medicament for treating pain, wherein the positive-tetravalent vanadium compound is selected from the group consisting of an inorganic salt, an inorganic acid salt, an organic acid salt, and a complex formed thereby together with an organic ligand or ligands ; and wherein the medicament is to be administered in a form of injection.
2. Use of a positive-pentavalant vanadium compound comprising a vanadium-oxygen bond in the preparation of a medicament for treating pain, wherein the positive-pentavalant vanadium compound is an alkali metal salt, an alkaline earth metal salt or a transition metal salt of orthovanadic acid or metavanadic acid, and a compound formed between a positive-pentavalent vanadium moiety and a polycarboxylic acid or an organic ligand or ligands; and wherein the medicament is to be administered in a form of injection.
3. The use of claim 1, wherein the positive-tetravalent vanadium compound is selected from the group consisting of VCl_4, $VOCl_2$, $VOSO_4$, $(VO)_3(PO_4)_2$, $VOHPO_4$, and $VO(H_2PO_4)_2$.
4. The use of claim 2, wherein the pentavalent vanadium compound is sodium orthovanadate or potassium orthovanadate.
5. The use of claim 2, wherein the pentavalent vanadium compound is sodium metavanadate or potassium metavanadate.
6. The use of claim 1, wherein the tetravalent vanadium compound is a compound formed between a tetravalent vanadium moiety and a polycarboxylic acid or an organic ligand or ligands.
7. The use of claim 2, wherein the pentavalent vanadium compound is a compound formed between a pentavalent vanadium moiety and a polycarboxylic acid or an organic ligand or ligands.
8. The use of claim 7, wherein the compound is formed between a pentavalent vanadium moiety and citric acid.
9. The use of claim 6 or claim 7, wherein the compound formed between an organic ligand is cis-bis(maltolato)methoxyoxovanadium, bis(acetylacetonato)oxovanadium, vanadyl oxalate, or vanadyl picolinate.
10. The use of claim 1 or claim 2, wherein the compound is selected from the group consisting of lithium orthovanadate, sodium orthovanadate, potassium orthovanadate, lithium polyvanadate, sodium polyvanadate, potassium polyvanadate, lithium metavanadate, sodium metavanadate, potassium metavanadate, a quaternary ammonium salt of metavanadate, vanadyl sulfate, and vanadyl dichloride.
11. The use of claim 1 or claim 2, wherein the compound is selected from the group consisting of bis(maltolato)oxovanadium (BMOV), bis(ethylmaltolato)oxovanadium (BEOV), vanadyl kojate, vanadyl sulfate, sodium orthovanadate, potassium orthovanadate, sodium metavanadate, potassium metavanadate, and their vanadium compound prepared with citric acid, tartaric acid, lactic acid, glycolic acid, ethylene glycol, glycerol, or triethanolamine [tris(2-hydroxyethyl)amine] at a molar ratio of 1:0.5 to 1:1000, and a citrate complex $K[VO_2(C_6H_6O_7)]\cdot H_2O$.