

MICRO LABS LIMITED AND MICRO L
Petitioners,
v.
SANTEN PHARMACEUTICAL CO., LTD. AND A
Patent Owners.

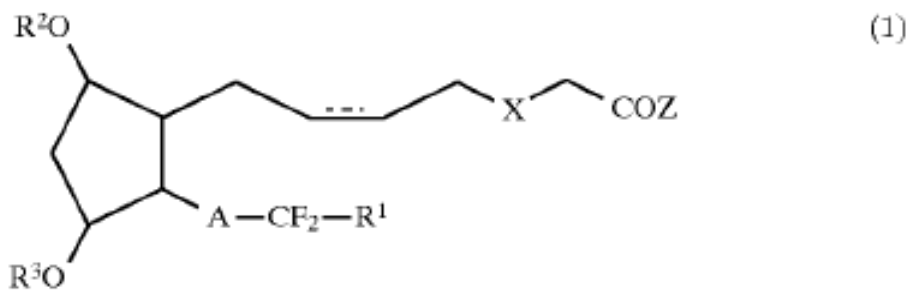
IPR2017-01434
U.S. Patent No. 5,886,03

Petitioners' Demonstrative
Oral Argument

September 6, 2018

The '035 Patent Claim

1. A fluorine-containing prostaglandin derivative of the following formula (1) or a salt thereof:



wherein A is an ethylene group, a vinylene group, an ethynylene group, $-\text{OCH}_2-$ or $-\text{SCH}_2-$,

R^1 is a substituted or unsubstituted aryloxyalkyl group, each of R^2 and R^3 which are independent of each other, is a hydrogen atom or an acyl group, or forms a single bond together with Z,

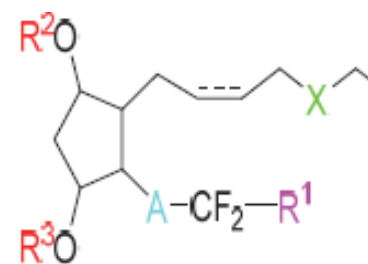
X is $-\text{CH}_2-$, $-\text{O}-$ or $-\text{S}-$,

Z is $-\text{OR}^4$, $-\text{NHCOR}^5$, $-\text{NHSO}_2\text{R}^6$ or $-\text{SR}^7$, or forms a single bond together with R^2 or R^3 ,

each of R^4 , R^5 , R^6 and R^7 which are independent of one another, is a hydrogen atom, an alkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group, an aryl group or an aralkyl group,

and a dual line consisting of solid and broken lines is a single bond, a cis-double bond or a trans-double bond.

Independent C



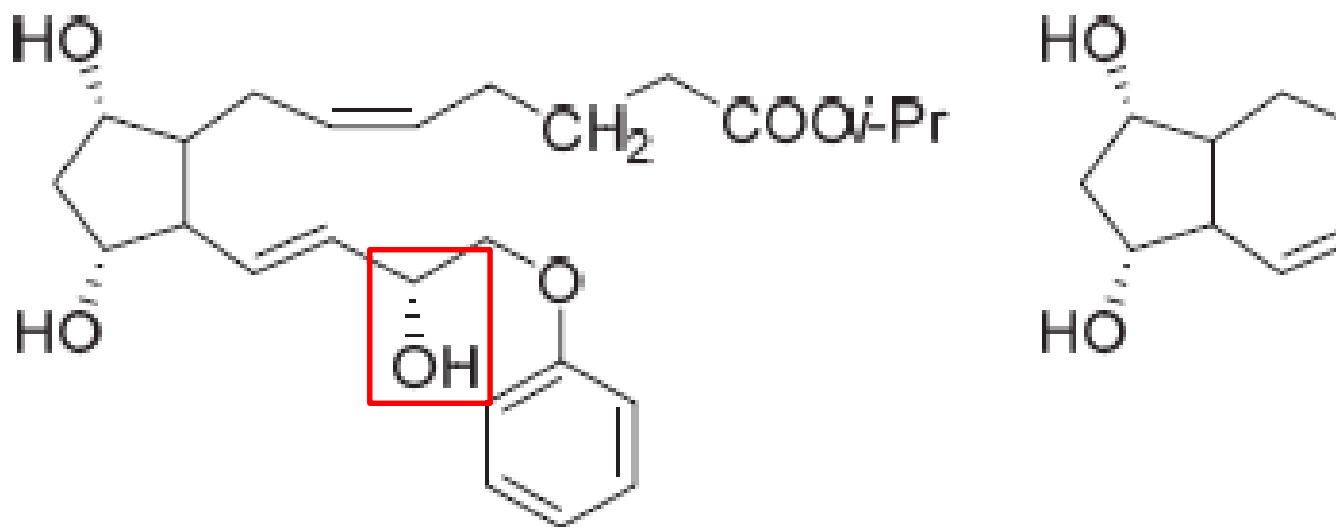
The '035 Patent Claim

Independent Claims: Claim 12

12. A medicine containing 16-phenoxy-15-deoxy-15,15-difluoro-17,18,19,20-tetranorprostaglandin $F_{2\alpha}$, 16-(3-chlorophenoxy)-15-deoxy-15,15-difluoro-17,18,19,20-tetranorprostaglandin $F_{2\alpha}$, 16-phenoxy-15-deoxy-15,15-difluoro-13,14-dihydro-17,18,19,20-tetranorprostaglandin $F_{2\alpha}$ or an alkyl ester or salt thereof as an active ingredient.

TH
Ta

Lead Compound and Tafluprost Are Structurally Similar
With The Only Difference Being The 2 Fluorine Substituents



Compound C
(Klimko)

Instituted Grounds

- **Ground 1:**

Claims 1-14 are obvious over Klimko, Kish

- **Ground 2:**

Claims 1-14 are obvious over Klimko, Kish
and/or Bezuglov 1986, and Ueno

- ❖ Klimko (Ex. 1003) was never considered by the
prosecution.

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