

Title (en)  
USE OF SALTS OF VINYL SULFONIC ACIDS STABILISED WITH N-NITROSO-N-ALKYL OR CYCLOALKYL HYDROXYL AMINES AS BASIC BRIGHTENERS IN GALVANIC NICKEL BATHS

Publication  
**EP 0069331 B1 19870819 (DE)**

Application  
**EP 82105806 A 19820630**

Priority  
DE 3126836 A 19810708

Abstract (en)  
[origin: EP0069331A2] 1. The use of an alkali metal vinyl sulphonate as basic brightener in nickel electroplating baths, wherein the vinyl sulphonate to be used contains, in admixture therewith, a compound of the formula see diagramm : EP0069331, P6, F2 where R is an aliphatic radical of 4 to 10 carbon atoms or a cycloaliphatic radical of 5 to 10 carbon atoms and Me is an alkali metal or an ammonium radical, as stabilizer.

IPC 1-7  
**C25D 3/12**

IPC 8 full level  
**C25D 3/12** (2006.01)

CPC (source: EP)  
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DE FR GB IT

DOCDB simple family (publication)  
**EP 0069331 A2 19830112; EP 0069331 A3 19860205; EP 0069331 B1 19870819**; DE 3126836 A1 19830127; DE 3277023 D1 19870924

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