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(54) Title: BIPHENYLSULFONAMIDE MATRIX METALLOPROTEINASE INHIBITORS $\text{R}^1 - \text{C}_6\text{H}_4 - \text{C}_6\text{H}_4 - \text{SO}_2\text{NH} - \text{CH}(\text{R}^2) - \text{COR}^3$ H or halo (I) (57) Abstract Compounds of formula (I) wherein R¹ includes alkyl, halo, nitro, amino, cyano, alkoxy, and alkoxycarbonyl; R² is alkyl and substituted alkyl; and R³ is OH or NHOH, are useful for inhibiting matrix metalloproteinase enzymes in animals, and as such, prevent and treat diseases resulting from the breakdown of connective tissues.		