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(54) **METHOD OF PRODUCING RECOMBINANT HIGH MOLECULAR WEIGHT VWF IN CELL CULTURE**

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(58) **Field of Classification Search**

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See application file for complete search history.

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(57) **ABSTRACT**

Among other aspects, the present invention relates to cell culture conditions for producing high molecular weight vWF, in particular, highly multimeric WF with a high specific activity and ADAMTS13 with a high specific activity. The cell culture conditions of the present invention can include, for example, a cell culture medium with an increased copper concentration and/or cell culture supernatant with a low ammonium ($NH_4^+$) concentration. The present invention also provides methods for cultivating cells in the cell culture conditions to express high molecular weight vWF and rA13 having high specific activities.

**12 Claims, 13 Drawing Sheets**