be regarded as evidence that the difference in the energy of mixing does not depend on the concentration (i.e., that the approximation on which the calculation was based is valid). Figure 2 shows the diagrams of the three systems in question.

Fig. 3. .....

Data relating to the equilibrium phase diagram of r the goldpalladium system were published in /5/; here the decomposition curves of the solutions also formed an "asymmetric cigar". Calculation of the Aziussi....from based on the deviation of the ..... curve from the straight line gives ..... ergy particle for this system ; criterion (1) xxx not, however, satisfied. The equation ..... was valid, from which it fillows that the diagram should contain a point of equal concentrations (see below) at y = x =It is easy to establish from the experimental diagram 0.905. that in the present case the discrepancy may be explained by measuring inaccuracies, since the region of phase separation near x = 1 is very narrow. In Fig. 3 the continuous line gives the experimental diagram and the broken line the calculated one. In the experimental diagram, in the range of conventrations close to in general unity.no region of phase separation is/given atxatt ; in the range of conficentrations around 15% the xt solid and liquid solutions are contiguous along a line, which is well known to be impessible.

2. Diagrams with a Point of Equal Concentrations. It follows

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