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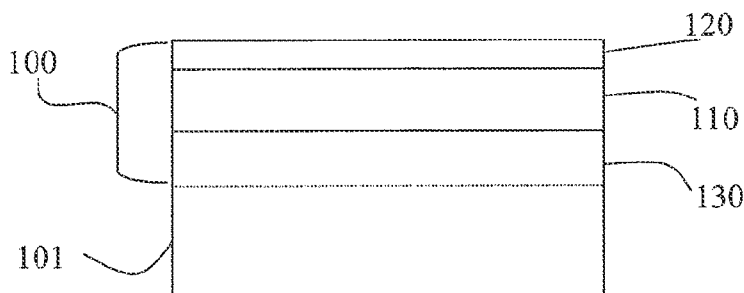


Fig. 1

(57) Abstract: In some examples, an alloy may include less than 55 atomic percent aluminum; between about 10 and about 25 atomic percent of a platinum group metal; and a balance of nickel; at least one of chromium, silicon, tantalum, or cobalt; a reactive element; and diffusion impurities; where the alloy has a discrete gamma-prime Ni₃Al region and a discrete beta NiAl region. In some examples, a coating system may include a substrate; a first layer including gamma-prime Ni₃Al; and a second layer including beta NiAl, where the first region and the second region are discrete dual region.

