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(54) Title: 3D PRINTABLE HARD FERROUS METALLIC ALLOYS FOR POWDER BED FUSION

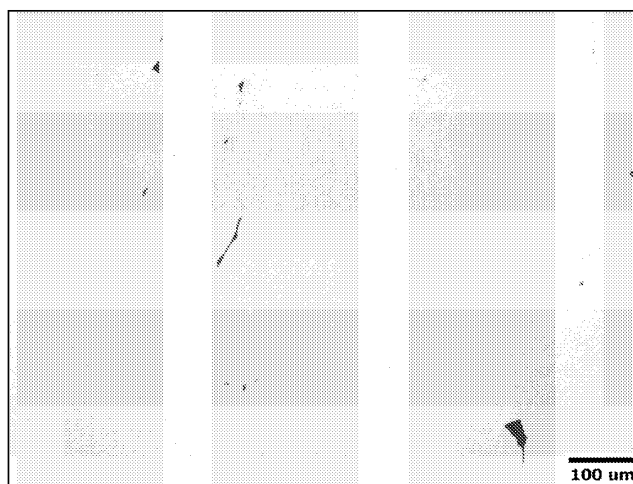


FIG. 1

(57) Abstract: The present invention relates to alloy compositions for 3D metal printing procedures which provide metallic parts with high hardness, tensile strengths, yield strengths, and elongation. The alloys include Fe, Cr and Mo and at least three or more elements selected from C, Ni, Cu, Nb, Si and N. As built parts indicate a tensile strength of at least 1000 MPa, yield strength of at least 640 MPa, elongation of at least 3.0 % and hardness (HV) of at least 375.

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