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Title: Influence of the laser parameters on the texturing of 420 stainless steel

Authors: A. Cunha, F. Bartolomeu, F. S. Silva, B. Trindade, O. Carvalho

The Authors described the influence of the laser parameters on the texturisation process of a 420 stainless steel by using an Nd: YVO4 fibre laser. The presented manuscript is original and well written. Some remarks, suggestions or questions are listed below. Some of them are mandatory to

Detailed suggestions:

1. The load of 10 gf, change units for N [SI units]. I suggest to write the hardness values in the text as follow: 320±11 $HV_{0.01}$.
2. In order to compare the results presented by the Wu et al. [28], tribological tests should be performed and discussed.
3. Authors described the texture as "textures with a continuous width and depth of tens of micrometres were considered promising". In my opinion these parameters have to be described more accurately (in a certain range).
4. The text „The morphological analysis …. time of 15 s" is repeated two times. Correct it.
5. The Authors can confirm the phase structure of the tested steel by the XRD patterns.
6. There is no explanation about the hardness increase. How will it affect the future multi-functional surface?
7. In conclusion, on the one hand, the Authors state that "…the most promising textures were obtained with laser power values of 16, 64, and 100 %..." and on the other hand "… low laser power values (1-16 %)…" are insufficient. Can you point out the optimal laser power value?