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(19) **United States**(12) **Patent Application Publication****Kim et al.**(10) **Pub. No.: US 2023/0231150 A1**(43) **Pub. Date:****Jul. 20, 2023**(54) **STAINLESS STEEL FOR FUEL CELL  
SEPARATOR****Publication Classification**(71) Applicant: **POSCO**, Pohang-si, Gyeongsangbuk-do  
(KR)(72) Inventors: **Kwangmin Kim**, Pohang-si,  
Gyeongsangbuk-do (KR); **Yongho Kim**,  
Pohang-si, Gyeongsangbuk-do (KR);  
**Bo-sung Seo**, Pohang-si,  
Gyeongsangbuk-do (KR); **Dong-hoon  
Kim**, Pohang-si, Gyeongsangbuk-do  
(KR)(73) Assignee: **POSCO**, Pohang-si, Gyeongsangbuk-do  
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**ABSTRACT**

Disclosed is a stainless steel for a fuel cell separator, more specifically, a stainless steel for a fuel cell separator having a low contact resistance. According to an embodiment of the stainless steel for a fuel cell separator disclosed herein, an arithmetic mean summit curvature  $S_{sc}$  of the surface defined according to the ISO 25178 standard is at least  $6.0 \mu\text{m}^{-1}$ , a root mean square surface slope  $S_{dq}$  is at least 23, and a contact resistance is at most  $10 \text{ m}\Omega\text{-cm}^2$ .

**CONTACT RESISTANCE****( $\text{m}\Omega\text{-cm}^2$ )**