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(71) Applicant: **OHIO STATE INNOVATION FOUNDATION** [US/US]; Energy Advancement and Innovation Center, 2nd floor, 2281 Kenny Road, Columbus, Ohio 43210 (US).

(72) Inventors: **WOOD, David**; c/o Ohio State Innovation Foundation, Energy Advancement and Innovation Center, 2nd floor, 2281 Kenny Road, Columbus, Ohio 43210 (US). **GONZALEZ-SERRANO, Milton**; c/o Ohio State Innovation Foundation, Energy Advancement and Innovation Center, 2nd floor, 2281 Kenny Road, Columbus, Ohio 43210 (US).

(74) Agent: **CLEVELAND, Janell T.** et al.; Meunier Carlin & Curfman LLC, 999 Peachtree Street, NE, Suite 1300, Atlanta, Georgia 30309 (US).

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(54) Title: METHODS AND COMPOSITIONS RELATED TO AN INTEIN DUAL MUTANT FOR ACCELERATED CLEAVING

(57) Abstract: A protein purification system and methods of using the system, including using modified split inteins, shows unexpected cleavage rate results. In particular, this split intein comprises an N-terminal intein segment, which can be immobilized, and a C-terminal intein segment, which has the property of being self-cleaving, and which can be attached to a protein of interest. Through the self-cleaving mechanism of the intein, the protein of interest can be purified.