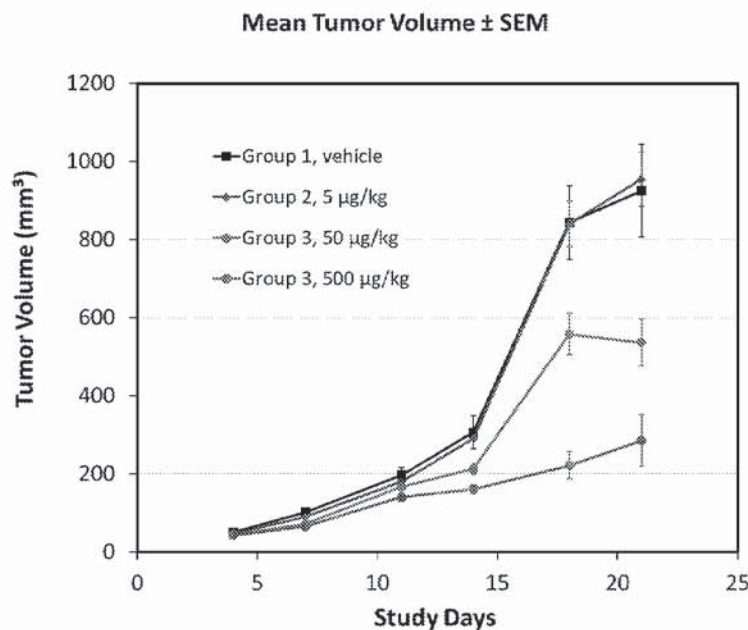




- (51) **International Patent Classification:**
C07K 14/705 (2006.01) A61K 39/395 (2006.01)
- (21) **International Application Number:**
PCT/US2018/055682
- (22) **International Filing Date:**
12 October 2018 (12.10.2018)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
62/572,375 13 October 2017 (13.10.2017) US
- (71) **Applicant:** HARPOON THERAPEUTICS, INC.
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- (74) **Agent:** DASGUPTA, Indrani; Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road, Palo Alto, California 94304 (US).
- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

(54) **Title:** B CELL MATURATION ANTIGEN BINDING PROTEINS

FIG. 29



(57) **Abstract:** Disclosed herein are B cell maturation antigen binding proteins with improved binding affinities and improved ability to mediate killing of cancer cells expressing B cell maturation antigen (BCMA). Pharmaceutical compositions comprising the binding proteins disclosed herein and methods of treatment of a cancer or a metastasis thereof using such formulations are further provided.

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *with sequence listing part of description (Rule 5.2(a))*

From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

DASGUPTA, Indrani
Wilson Sonsini Goodrich & Rosati
650 Page Mill Road
Palo Alto, California 94304
ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year) 03 April 2020 (03.04.2020)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 47517-722601	
International application No. PCT/US2018/055682	International filing date (day/month/year) 12 October 2018 (12.10.2018)

1. The following indications appeared on record concerning:		
☒ the applicant	☐ the inventor	☐ the agent
☐ the common representative		
Name and Address HARPOON THERAPEUTICS, INC. 4000 Shoreline Court Suite 250 South San Francisco, California 94080 United States of America	State of Nationality US	State of Residence US
	Telephone No.	
	Facsimile No.	
	E-mail address	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
☐ the person	☐ the name	☒ the address
☐ the nationality		
☐ the residence		
Name and Address HARPOON THERAPEUTICS, INC. 131 Oyster Point Boulevard, Suite 300 South San Francisco, California 94080 United States of America	State of Nationality US	State of Residence US
	Telephone No.	
	Facsimile No.	
	E-mail address ☐ Notifications by e-mail authorized	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
☒ the receiving Office	☐ the International Preliminary Examining Authority	
☐ the International Searching Authority	☒ the designated Offices concerned	
☐ the Authority(ies) specified for supplementary search	☐ the elected Offices concerned	
	☐ other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Brosse Monique e-mail pct.team4@wipo.int Telephone No. +41 22 338 74 04
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From the INTERNATIONAL BUREAU

PCTNOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

DASGUPTA, Indrani
Wilson Sonsini Goodrich & Rosati
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Date of mailing (day/month/year) 02 September 2019 (02.09.2019)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 47517-722601	
International application No. PCT/US2018/055682	International filing date (day/month/year) 12 October 2018 (12.10.2018)

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	☐ other:	

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	Facsimile No.	
	E-mail address	
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	Telephone No.	
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3. Further observations, if necessary:		
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☐ the International Searching Authority	☒ the designated Offices concerned	
☐ the Authority(ies) specified for supplementary search	☐ the elected Offices concerned	
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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Laskowski Marek e-mail pct.team4@wipo.int Telephone No. +41 22 338 74 04
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☐ the common representative		
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	Facsimile No.	
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