505916443 02/13/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5963160

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TARVO VIITA-AHO	01/28/2020
TAPANI TALONEN	02/12/2020
JANNE MIKKONEN	02/06/2020
TAPIO SIIRONEN	01/29/2020
VILLE MYYRYLÄINEN	01/28/2020
ALESSIO CALCAGNO	01/28/2020
MARKKU JOKINEN	02/04/2020

RECEIVING PARTY DATA

Name:	KONE CORPORATION
Street Address:	KARTANONTIE 1
City:	HELSINKI
State/Country:	FINLAND
Postal Code:	00330

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16784013	

CORRESPONDENCE DATA

Fax Number: (703)205-8050

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 7032058000

Email: christopher.smith@bskb.com, mailroom@bskb.com

Correspondent Name: BIRCH STEWART KOLASCH & BIRCH LLP
Address Line 1: 8110 GATEHOUSE ROAD, SUITE 100E
Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER: 1381-0828PUS1

NAME OF SUBMITTER: CHRISTOPHER SMITH

SIGNATURE: /Christopher Smith/

DATE SIGNED: 02/13/2020

PATENT REEL: 051815 FRAME: 0917

505916443

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 14

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PATENT REEL: 051815 FRAME: 0918 Application Number: 16784013

Filed On: 02/06/2020

Attorney Docket No. 1381-0828PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

8110 Gatehouse Road, Suite 100 East, Falls Church, Virginia 22042-1248 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

Title of Invention \Rightarrow A METHOD FOR CONTROLLING AN ELEVATOR

As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:

This declaration is directed to the application attached hereto.

Application	no
Attached	

⇒ If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:

Enter Appln. No. Durited States Application Number or PCT International Appln. No.

Enter Filing Date \Rightarrow filed on

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

Insert Name of Assignee

➡ WHEREAS, KONE CORPORATION

Insert Address of Assignee

⇒ of Kartanontie 1, 00330 Helsinki, Finland,

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

Check Box if Appropriate

in any foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; including all rights under the International Convention for the Protection of Industrial Property or similar agreements as well as the right to claim benefit from the priority of the above-mentioned application; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Page 1

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

Additional inventors are being named on the <u>1</u> supplemental sheet(s) attached hereto.

LEGAL N	AME OF INVENTOR			20.41
Inventor's Name	Tarvo VIITA-AHO		Date:	28 th Jan 2020
Inventor's Signature ⇒ Signature:	Taro	Maah		
		, including naming the entire in selow and complete the attached p		ntity, must accompany this form. st additional inventors.

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Page 2

BIRCH, STEWART, KOLASCH & BIRCH, LLP

8110 Gatehouse Road, Suite 100 East, Falls Church, Virginia 22042-1248 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

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Title of Invention \Rightarrow A METHOD FOR CONTROLLING AN ELEVATOR

		As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:
		This declaration is directed to the application attached hereto.
Application not Attached	4	If the application is not attached hereto, the application is as identified by the attorney docket number as set forth above and/or the following:
Enter Appln. No.	4	United States Application Number or PCT International Appln. No.
Enter Filing Date	₽	filed on
		The above-identified application was made or authorized to be made by me.
		I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
		I have reviewed and understand the contents of the above-identified application, including the claims.
		I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.
		WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
Insert Name of Assignee	⇔	WHEREAS, KONE CORPORATION
Insert Address of Assignee	⇔	of Kartanontie 1, 00330 Helsinki, Finland,
		its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
Check Box if Appropriate	⇔	in any foreign countries.
		NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; including all rights under the International Convention for the Protection of Industrial Property or similar agreements as well as the right to claim benefit from the priority of the above-mentioned application; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Page 1

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The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

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The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

LECAL NIAME OF INIVENIEOD

		LEGAL N.	AME OF INVENTOR	
Inventor's Name	⇔	Inventor:	Tarvo VIITA-AHO	Date:
Inventor's Signature	• ⇔	Signature:		
			TO/SB/14 or equivalent), including naming the entire invertor; or check the box below and complete the attached page.	
Additional	inv	ventors are b	eing named on the $\underline{1}$ supplemental sheet(s) attached hereto).

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

	LEGAL N.	AME OF JOINT INVENTOR, IF ANY	
		Iapani IALONEN	Date: 12 02.2020
Inventor's Signature	Signature:	0.00	
	LEGAL N.	AME OF JOINT INVENTOR, IF ANY	
heventor's Name	⇒ Inventor:	Janne MIKKONEN	Date:
Inventor's Signature	Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Tapio SIIRONEN	Date:
Inventor's Signature	⇔Signature:		**********
	LEGAL N	AME OF JOINT INVENIOR, IF ANY	
Invenior's Name	⇒lnventor:	Ville MYYRYLÄINEN	Date:
Inventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
)tiventor's Name	⇒Inventor:	Alessio CALCAGNO	Date:
Învenior's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Markku JOKINEN	Date:
Inventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇔Inventor:		Date:
hiventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
hiventor's Name	[⇔] Inventori		Date:
biventor's Signature	⇒Signature:		

PATENT REEL: 051815 FRAME: 0923

ADDITIONAL INVENTOR(S)

Supplemental Sheet Page 1 of 1

LEGAL NAME OF ICINT INVENTOR, IF ANY

brecido e Sarar	1 Inventor Tapent TALONEN	Date
(biociniore Syptamice)	^{v.} Signature	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
(0:ec:d:o/c)():ora:	' Inventor: Janne MIKKONEN ,	Date: 6: 9-300 0
	° Signature. Zuma, Am	/KYYTINEN
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
tastatuses State	*Inventor: Tapio SIRONEN	Date
:nc:ninc<;:55;00;00;	%Signature.	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
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	LEGAL NAME OF JOINT INVENTOR, IF ANY	
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	LEGAL NAME OF JOINTINVENTOR, IF ANY	
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	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Saveosos & Sassos	*Inventor	T:ats:
3446000 2 70726400	⁹ Signature	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
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	'Signature	

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BIRCH, STEWART, KOLASCH & BIRCH, LLP

8110 Gatehouse Road, Suite 100 East, Falls Church, Virginia 22042-1248 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050 • Email: mailroom@bskb.com

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Title of Invention ⇒ A METHOD FOR CONTROLLING AN ELEVATOR

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Enter Filing Date	⇒ filed on
	The above-identified application was made or authorized to be made by me.
	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
	I have reviewed and understand the contents of the above-identified application, including the claims.
	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.
	WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.
Insert Name of Assignee	⇒ WHEREAS, KONE CORPORATION
Insert Address of Assignee	⇒ of Kartanontie 1, 00330 Helsinki, Finland,
	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and
Check Box if Appropriate	in any foreign countries.
· · · · · · · · · · · · · · · · · · ·	NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; including all rights under the International Convention for the Protection of Industrial Property or similar agreements as well as the right to claim benefit from the priority of the above-mentioned application; and to any and all divisions,

PATENT

REEL: 051815 FRAME: 0925

may be granted.

reissues, continuations, conversions and extensions thereof for the full term or terms for which the same

The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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In witness whereof, executed by the undersigned on the date opposite the undersigned name.

Additional inventors are being named on the <u>1</u> supplemental sheet(s) attached hereto.

		LEGAL NA	AME OF INVENTOR	
Inventor's Name	⇔	Inventor:	Tarvo VIITA-AHO	Date:
Inventor's Signatur	re ⇒	Signature:		
		,	PTO/SB/14 or equivalent), including naming the entire involventor; or check the box below and complete the attached pa	

SKB-DEC-ASSIGN (11-18) **PATENT**

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY _____ Date: ____ ⇒ Inventor: Tapani TALONEN Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY ⇒ Inventor: Janne MIKKONEN Date: Inventor's Signature ⇒ Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Tapio SIIRONEN Date: 29.1.2020 Inventor's Signature Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Ville MYYRYLÄINEN Date: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Alessio CALCAGNO Date: Inventor's Signature ⇒Signature: _ LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Markku JOKINEN Date: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: Date: Inventor's Signature ⇒Signature: LEGAL NAME OF JOINT INVENTOR, IF ANY Inventor's Name ⇒Inventor: _____ Date: _____

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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BSKB-DEC-ASSIGN (11-18)
PATENT REEL: 051815 FRAME: 0928 The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

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In witness whereof, executed by the undersigned on the date opposite the undersigned name.

Inventor's Name	⇒ Inventor:	Tarvo VIITA-AHO	 Date:	
Inventor's Signature	⇒ Signature:			

An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.

Additional inventors are being named on the <u>1</u> supplemental sheet(s) attached hereto.

LEGAL NAME OF INVENTOR

SKB-DEC-ASSIGN (11-18) **PATENT**

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

LEGAL NAME OF JOINT INVENTOR, IF ANY

Inventor's Name □ Inve	ntor: <u>Tapani TALONEN</u>	Date:	
Inventor's Signature ⇒ Signa	ature:		
LEG	GAL NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name □ Inve	ntor: Janne MIKKONEN	Date:	
Inventor's Signature ⇒ Signa	ature:		
LEG	SAL NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name □ Inventor's Name	ntor: Tapio SIIRONEN	Date:	
Inventor's Signature ⇒Signa	ature:		
LEG	SAL NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name ⇒Inven	ntor: Ville MYYRYLÄINEN	Date: 28.12020	
Inventor's Signature ⇔Signa	ature: Wille Meyfafac		
LEG	AL NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name □ Inventor's Name	ntor: Alessio CALCAGNO	Date:	
Inventor's Signature ⇒Signa	ature:		
LEG	AL NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name □ Inventor's Name	ntor: Markku JOKINEN	Date:	
Inventor's Signature ⇒Signa	ature:		
LEG	AL NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name ⇒Inver	ntor:	Date:	
Inventor's Signature ⇔Signa	ature:		
LEG	AL NAME OF JOINT INVENTOR, IF ANY		
Inventor's Name □ Inver	ntor:	Date:	
Inventor's Signature ⇒Signa	ature:		
BIRCH, STEWART, KOLA	ASCH & BIRCH, LLP Page 3	BSKB-DEC-ASSIGN (11	-18)

PATENT REEL: 051815 FRAME: 0930

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒ Inventor:	Tapani TALONEN	Date:
Inventor's Signature	⇒ Signature:		
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		AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒ Inventor:	Janne MIKKONEN	Date:
Inventor's Signature	⇒ Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Tapio SIIRONEN	Date:
Inventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Ville MYYRYLÄINEN	Date:
Inventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	1 1
Inventor's Name	⇒Inventor:	Alessio CALCAGNO	Date: 28/1/2020
Inventor's Signature	⇒Signature:	Hum of	
		AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:	Markku JOKINEN	Date:
Inventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇔Inventor:		Date:
Inventor's Signature	⇒Signature:		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor:		Date:
Inventor's Signature	⇒Signature:		

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of

	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Nar	ne → Inventor: <u>Tapani TALONEN</u>	Date:
Inventor's Sign	ature 🗢 Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Nam	e → Inventor: <u>Janne MIKKONEN</u>	Date:
Inventor's Signa	^{ature →} Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	[⇔] Inventor: <u>Tapio SIIRONEN</u>	Date:
Inventor's Signat	^{we} ⇔Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇔Inventor: Ville MYYRYLÄINEN	Date:
Inventor's Signatu	^{rre ⇒} Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
Inventor's Name	⇒Inventor: Alessio CALCAGNO	Date:
Inventor's Signatur	° ⇒Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
nventor's Name	⇒Inventor: Markku JOKINEN	Date: 4,2,2020
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	LEGAL NAME OF JOINT INVENTOR, IF ANY	
ventor's Name	⇒Inventor:	Date:
ventor's Signature	⇔Signature:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY	
entor's Name	⇔Inventor:	Date:

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Inventor's Signature

⇒Signature:

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PATENT

RECORDED: 02/13/2020